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10-Bit Digital Video Mixers

The MXPro is a professional four-input video mixer with powerful features and performance. It offers unmatched 10-bit digital 4:2:2 video quality as well as a S/N ratio over 60 dB and a video bandwidth of 5.5 MHz. It has over 500 digital video effects and transitions including dissolves, trailing effects and multiple picture-in-picture. There are shape wipes, soft wipe edges and easy to use 'banks' of effects with user-defined favorites. All shape effects can be enhanced with soft edges, colored borders and drop shadows for 3-D like impact. Frame synchronizer and dual-field infinite-window time base corrector (TBC) allow clean transitions, including the ability to hold an image frozen through a transition. Unique preview screen shows miniature copies of all four inputs in your choice of formats and sizes, so you can work with just one or two monitors. Digital effects include freeze, black and white, negative, mosaic, paint and flip. Has a chroma keyer and a color corrector that remembers settings for each channel. Built-in audio mixer includes a special background music feature that lets you manipulate audio tracks independent of video.

The MXProDV adds proprietary DV (IEEE1394) input/output making it a versatile, easy to use, switcher/special effects generator for both analog and DV video signals—a real-time production tool that preserves DV signals from start to finish.

FEATURES

**Highest Quality Video**
- 10-bit (4:2:2) video processing for S-Video applications, and 8-bit 4:2:2 for composite ensures the highest quality video. S/N ratio is 60 dB and bandwidth is 5.5 MHz.

**Four Input Switcher**
- Four input channels make them useful in live production settings where up to four cameras or other sources might be in use. MXPro and MXProDV synchronize the inputs, so disruptions do not occur when switching between sources.
- Each channel has a composite video input, an S-Video input, and a set of stereo audio inputs. The MXProDV adds two DV inputs. Use all DV, all S-Video, all composite, or any combination.
- Mix any two input sources together using a variety of transitions — wipes, dissolves, flips, etc. With the frame synchronizer you can mix independent video signals.
- Multiple video/audio outputs include two S-Video and two composite video program outputs, one composite preview output, one stereo audio and a headphone output for monitoring. The MXProDV adds a single DV (IEEE1394) output.

**Joystick**
- The joystick gives you fine control over color adjustments and positioning of PIP, compose, and the chroma key cursor.

**Time Base Correction**
- Full-frame time base correction (TBC) automatically corrects the outputs time base (RS-170A standard) so the output signal is stable even when the input isn't.

**Picture-in-Picture (PiP)**
- PiP allows multiple pictures to share the screen in various configurations. For example, one source might take the entire background while another image appears inside a separate, smaller window, both sharing the screen at the same time. You can use up to 16 images in a PiP configuration.

**Flexible Preview**
- If you are using only two sources, you can select a screen that provides two large preview screens with fewer icons. If you don't require the effect icons, you can display all four sources full screen, with each source occupying 1/4 of the screen.

**Audio Mixer**
- Built-in audio mixer lets you change the sound along with the video, or play a constant sound while the video plays. Audio can come from a video source or from external audio devices.

**Compose**
- The mixers offer a video painting system that lets you combine video stills, color shapes, and moving video on one screen. You can create a screen that contains a video still of a football coach (with a surrounding red border), combined with a moving video of the players on the field.

**Chroma Key/Color Corrector**
- With either of the mixer’s Chroma Keyer you can key on any color. In addition they have color correction capability to compensate for minor lighting imperfections or slight color differences between sources. While other similarly-priced mixers only offer hue and intensity control, they provide real manual color correction. Apply true RGB color correction to any or all input sources. Also features Color bar and black burst generators.
**Effects and Transitions**

- Over 500 video effects, including fades, wipes, slides, dissolves, zooms, and trailing effects. Plus picture-in-picture, multiple picture-in-picture, picture flip, luminance and chroma key, superimpose, movable mosaic, strobe, picture freeze (frame and field), strobe, posterization (paint), solarization, negative, color inverse, zoom, and filter. Effects can be enhanced with soft edges, colored borders and drop shadows.
- GPI interface allows external controllers to trigger transitions.

**Managing Transitions**

- To help manage the 500+ transitions, they are separated into five logical color coded categories or effects “banks” User, Basic, Edges, Trailing, and Shapes.
  - **Basic Transitions:** Include all basic wipes and fades (over 240 transitions).
  - **Edge Transitions:** These move a curved or jagged (saw-toothed) edge across the screen when transitioning to a different picture source.
  - **Trailing Transitions:** They leave a trail of images on the screen as a change occurs. The trailing images go away once the transition finishes.
  - **Organic Shape Transitions:** They occur as a wipe in the shape of a geometric object, such as a heart, five-pointed star, circle, binocular, diamond, etc.
- Since it’s unlikely you’ll use all of the transitions — but will have a limited set that you use most of the time, you can access your favorite transitions by creating your own personal menu — the User menu. Select up to 30 of your favorite effects and access them instantly by pressing the “User” button.
- Each of the effects “banks” can be easily accessed with the press of one button. Once you get to know the mixer’s layout, you’ll effortlessly select any effect, using the cursor keys or the numeric keypad.
- Manual transitions using T-bar or automatic transitions (10 speeds) using auto-take. MXPro can even memorize a sequence of actions and repeat them for you, on cue.

The MXPro and the MXProDV both offer a unique and powerful preview output which allows you to view up to four sources on one monitor. This saves you money and space, because you don’t need a separate monitor for each source.

Choose from three options depending on your application or need. Have all 4 inputs displayed as smaller thumbnail options (in addition to 30 transition options on one screen); choose 2 larger thumbnail screens showing you “current” and “next”, or you can fill the screen with a “quad” view of all 4 inputs. You can also “freeze” frames from two different sources and toggle between full screen views of both. Preview outputs on all mixers is composite (RCA) jacks.

**MXProDV Step-up Features**

The MXProDV maintains the integrity of the digital signal from your DV camcorder or source deck to your record device. And unlike non-linear video editing systems there is no rendering time. MXProDV produces digital effects in real time, making it the ideal tool for both post-production and live applications. For speed, quality and versatility the MXProDV is unmatched! And now you can mix both high-quality analog and DV sources together.

Of course the MXProDV incorporates all the features of the MXPro. Over 500 eye-catching transitions including curved and jagged edges, trailing effects, and “natural” shape effects like circles, stars, and hearts. Effect enhancements like soft edges, color borders and drop shadows. Real RGB color correction to compensate for minor lighting imperfections or slight color differences between sources. Built-in chroma and luminance keying. There has never been a more complete DV and analog production solution.

The MXProDV also produces perfectly synchronized DV audio with CD quality. Enhanced audio mixing capability provides on-screen slide controls for volume along with level meters so you ensure that your audio levels are properly set. MXProDV supports 32kHz 4-channel and 48kHz 2-channel digital audio with a multitude of mixing options.

**DistanceDV Cables**

Using breakthrough cable technology, Videonics has achieved extension of the DV signal. Ideal for live and studio events, DistanceDV cables use enhanced quality cable components and a proprietary passive filter to minimize the jitter and noise that long distances are susceptible to. Your production will benefit from the pristine digital signals produced by today’s DV sources.

Whether you’re running cable on location or in the production studio, DistanceDV cables can extend your DV signal to 10 meters (33´), 20 (66´) or even 50 meters (164´) with the best picture possible. Each end includes a locking 4- to 6-pin adapter for maximum flexibility. Use the 4-pin adapter for connections to digital cameras and mixers. Remove the adapter to use with 6-pin devices like converters, hubs and computers.

- **DDV-10** 10 meter (33´) cable ..........199.95
- **DDV-20** 20 meter (66´) cable ..........299.95
- **DDV-50** 50 meter (164´) cable ..........519.95

ORDER & INFO. (212) 444-5010 • FAX: (212) 239-7770 (800) 947-7008
1-800-947-5525 • www.bhphotovideo.com
Video TitleMaker

Add crisp, dazzling, professional-looking titles to your video production. A technological breakthrough in video character generation, the TitleMaker 3000 delivers high-resolution titles in over a million colors with over 200 font/size combinations and 27 styles. The TM-3000 offers a separate full-size keyboard that puts everything at your fingertips including special characters to support up to twenty-one different languages. Other advanced features include patterns, see-through video effects, multi-direction scroll and crawl, fades and wipes. Non-volatile memory allows you to store up to 16,000 characters on hundreds of pages.

- Offers over 200 font/size combinations, including script, Old English, and many more. Fonts are specifically designed to look great on video. Each line of text can be enhanced with drop shadows, several grades of bold letters, outlines, eight-speed scroll and crawl, and much more.
- When creating your titles, outlines, backgrounds, and borders, you can select from a palette of over a million colors as well as a set of 32 rainbow and pixel patterns to give your titles a unique one-of-a-kind look.
- Four-direction scroll and crawl (8 speeds). Scroll in one direction, hold, scroll out another direction.
- There are 24 special effects for transitions between title screens, including cuts, fades, wipes, and more. Effects can be executed in any of eight selectable speeds.
- A preview output allows you to change titles on a secondary monitor without affecting video on the program output.
- Superimpose titles over video or over colored or patterned backgrounds. Video can also be used as a “color” for titles, backgrounds, or outline/shadow areas. Use dimmed or tinted video as a background for stunning “video-on-video” effects.
- Composite and S-Video input/output
- Easy to use, separate, full function keyboard includes special and foreign characters such as æ, £, ß, •, ® etc.
- Pages can be stored under separate projects. You can work on pages in one project without affecting those in another.
- Multiple play modes: Play a pre-arranged program with different settings for each page; manually (slide show); repeated sequence (video billboard); play one page.
- GPI input allows remote trigger of titles from external controller.
- A real-time clock/date display can be used to trigger pages.

PTM-1
Personal TitleMaker

The PTM-1 incorporates the video performance and many of the features found in the TM-3000. Like the TM-3000 it offers high-resolution titles in over one million colors plus patterns, fades and wipes. Even see-through video effects with scroll and crawl capabilities to add credits to video or create video message boards. The main differences between the PTM-1 and the TM-3000 are: No independent keyboard, only 28 font/size combinations as opposed to over 200 on the TM-3000 and no preview output. Last, the PTM-1 memory will only hold 4000 characters (16000 on the TM-3000).

COMMAND POST

The Command Post is a USB-based, hardware control panel that gives you conventional-style control of your multimedia applications. Controls include pushbuttons, jog/shuttle, joystick and a T-Bar. Ideal for Adobe Premiere, Apple Final Cut and many more.

- Individual controls can be assigned to key sequences that are saved as application templates.
- Incorporates the most popular controls from standalone devices like linear editors, DVEs and DDRs.
- Common tasks can be customized to work the way you want with the type of control you prefer.
- Comes with templates for popular video and graphics applications, including Apple iMovie, Final Cut Pro, Adobe Premiere, Adobe After Effects.
- Smaller than a standard keyboard and ergonomically designed control surface makes it ideal for use in your multimedia workplace. Internally illuminated for readability in darkened edit rooms.
13-/20-/27-inch Video Editing Monitors

The television that sits at home is probably very good at what it does, but it wasn’t designed for the office, classroom, edit room or operating room. True video monitors come in all sizes and configurations, because there are so many specialized demands. How about function blockout for point-of-sale or training applications? Comb filters? Program timers? Don’t force your TV to be a monitor; it’s not built for that. Panasonic’s CT-series monitors are built with the same technology as their broadcast and high-end post production monitors. 13”, 20” or 27”, there is a monitor to fit your needs and your budget. And Easicon icon-based on screen menu system makes adjustments to set-up parameters very intuitive.

Ideal for industrial, educational, surveillance and POP (Point-of-Purchase) applications, the TM-A13SU is a 13” viewable NTSC and PAL monitor with a 0.64mm dot pitch for high quality viewing at a very affordable price.

- PanaBlack picture tube delivers improved contrast, color reproduction and detail. Dark black screen glass provides a 40% increase in contrast by decreasing the amount of light that passes through the screen and reflects back off the phosphors.
- Control panel can be locked to prevent unauthorized altering of settings (from the front panel or remote).
- Program Timer automatically turns the monitor on and off at a predetermined time for one day or every day.
- Sleep Timer will count down a desired time of 30, 60 or 90 minutes and then automatically turns the monitor off.
- Instant Power-On is ideal for presentation or kiosk applications. Monitors power up automatically when AC is supplied.

PanaBlack picture tube delivers improved contrast, color reproduction and detail. Dark black screen glass provides a 40% increase in contrast by decreasing the amount of light that passes through the screen and reflects back off the phosphors.

JVC TM-A13SU
13” S-Video Monitor

Ideal for industrial, educational, surveillance and POP (Point-of-Purchase) applications, the TM-A13SU is a 13” viewable NTSC and PAL monitor with a 0.64mm dot pitch for high quality viewing at a very affordable price.

- Composite and S-Video inputs, delivers over 320 lines of horizontal resolution. Audio inputs for both sources are mono (RCA) with loopthrough.
- Compact (12½” high and 14½” deep), the shell of the monitor is made out of a strong plastic material in order to reduce weight, and maintain affordability.
- Automatically selects between NTSC or PAL displays. It will detect the color system that is being displayed and switch accordingly.
- Built-in 8cm round speaker reduces the need for external speakers
- Graphical, user-friendly on-screen menu to make fine adjustments
- Circuitry stabilizes black levels so that they are maintained constantly.
- Control Lock disables the control buttons on the front of the monitor, so that the monitor is not inadvertently misaligned.

<table>
<thead>
<tr>
<th>Monitors</th>
<th>CT-1388YD</th>
<th>CT-2088YB</th>
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Available in 60- and 120GB versions, the DV Bank is an external FireWire hard drive that allows you to capture video from a DV camera or deck via Firewire (IEEE1394) cable—without using a computer. Although it’s not a replacement for a tape deck, the DV Bank and its accessories provide a number of unique capabilities, including time-lapse photography and automated playback, and it can reduce wear and tear on your DV camera or deck. What’s more, it gives you instant random access to all of your media, a great time-saver when you’re on location.

FEATURES

- The need to capture your footage is virtually eliminated with the DV Bank. Simply record from a DV camcorder directly to the DV Bank via FireWire, then connect from the DV Bank to a non-linear editing system to import the video. This minimizes wear-and-tear on your camcorder’s video head, while preserving image quality by eliminating dropouts and timecode breaks.
- They incorporate specially formatted drives and a self-contained processor optimized for storing video streams. The 60 GB DV Bank holds 4.5 hours of digital video, the 120 GB version can store 9 hours—a whole day of shooting.
- Record video to the DV Bank just as you’d record to any other DV deck. Simply plug in your camera via the FireWire port (either 4- or 6-pin), press record and let it rip. The DV Bank captures and stores the video just as your computer would if you were using a video capture program.
- Once you’ve captured your video, you can quickly move to any track and play it back without having to rewind your tape and risk breaking your timecode. To see the footage, you need to connect to your DV camera or deck. Because you’re recording to hard drive rather than to tape, you have instant random access to all of your captured footage.
- Has VCR-style controls with large, illuminated buttons and a two-line, backlit LCD display let you select play, record, REW, FF, pause, frame advance, file selection, file delete and loop play.
- Other features include seamless repeat loop play (for trade shows), variable speed forward or reverse play and play one frame at a time forward or reverse.
- FireWire (IEEE1394) interface lets you capture directly from any DV camcorder, VCR, Mixer or analog VCR with converter.
- To get the captured footage into your PC or Mac for editing, you treat the DV Bank just like any other camera or deck and use your editing program’s capturing facility to grab the clips you want.
- With the optional Intervalometer you can use the DV Bank to shoot time-lapse videos. With the Intervalometer (uses the DV Bank as its power source) you can grab individual frames from your camera and move them to the DV Bank, using any interval you want. For shooting time-lapse, creating stop-motion animation, or shooting single frames, the DV Bank and Intervalometer combo is an ideal solution.
- Other DV Bank accessories include a DC converter for running off a car cigarette lighter, and converter boxes for capturing from S-Video or YUV analog sources.
- Includes AC/DC 12v Adapter, Firewire Cable and Datavideo Easy Cut Video Editing Software CD
Direct DV Recorder

Laird’s CapDiv 60GB is a small and reliable disk recorder that can record and play DV video captured from a DV camcorder. This device stores up to 4.5 hours of “edit-ready” digital footage that can be transferred directly to your computer with faster than realtime speeds. Its open-format recording file system is compatible with both Mac and PC based non-linear editing systems.

- Record up to 4.5 hours of digital video with this self-contained DV disk recorder. Capture a full day of shooting and go straight to the editing room to review your dailies.
- Connect CapDiv to your DV camcorder and sync the camera’s operating functions to the disk recorder. Every time you press record on your camera, the CapDiv will capture the same video at the same time! Other camera operating functions work as well.
- The video files are stored as either Canopus or Windows Media .AVI Type II files. The user can then choose whether to capture the video using their non-linear editing software, or simply import the files without the need to recapture.
- Captures video files that can be used in non-linear editing systems like Final Cut Pro, Avid Xpress DV and Premier Pro. It uses a FAT-32 file format for universal computer access, allowing use on Mac and PC systems.
- Individual clips can be marked during recording, allowing you to keep track of the time-code boundaries of specific video clips.
- Creates a new bin for every tape change in the camcorder. Up to 99 bins can be created to organize your video material during capture. The bin feature is fully customizable.
- CapDiv hangs easily from your belt, allowing for quick access to controls and reliable storage for your digital video.

VIDEONICS FS-1 FireStore

DV to Hard Disk Drive Interface

The FireStore FS-1 is a unique, portable DV-to-HDD (Hard Disk Drive) recorder interface. The FS-1 enables videographers to record DV video from their video camera, deck or mixer to virtually any FireWire storage device without the need for a computer. Recorded files can then be used immediately in video applications on the desktop when the drive is connected to a Macintosh or Windows-based computer. FireStore also works as a stand-alone DV record/playback device.

- DTE, or Direct To Edit Technology, is the future of digital video for ENG, field production, the desktop, and the studio because it merges the steps of acquisition and capturing. Only DTE Technology converts the camera’s DV output to any chosen native NLE file format, as it records to hard drives.
- The FireStore FS-1 brings DTE technology to the field or desktop. With the optional carrying case and industry standard NP battery kit, FireStore FS-1 is ideal for shooting video direct to disk in the field. Alternately, it can be used as a desktop NLE capture station. In this use, any DV source can be captured to disk without tying up an NLE system or an editor’s time.
- Up to four FireWire disk drives can be daisy chained to the FS-1. Various combinations of disk drives and capacities can be chosen to continuously record almost any length event. Use a combination of HDD sizes to tailor record times to your particular needs.
- Record, play and navigate using the VCR-type controls. Navigate from clip to clip with the push of a button. No cueing of tapes is required. Multiple speed forward and backward search (including single frame) and loop playback (single clip or entire disk) are standard. The FS-1 can be slaved to a DV camcorder’s Record/Pause modes or controlled via AV/C commands from NLE systems.
- The ability of DTE Technology to record in native file format such as DV OMF for Avid Xpress DV, QuickTime for Final Cut Pro and AVI 2 for Premier, means footage is identical to the format your NLE captures in. This means clips can be used directly in the timeline without having to transfer or convert files before use. When connected to a DV NLE system, a drive with DTE recorded clips will appear on the desktop, and the clips can be dragged straight to the timeline.
- Only products featuring DTE Technology record clips in native Raw DV (.dv), AVI Type 1, AVI Type 2, Canopus AVI, Matrox AVI, QuickTime (.mov) or Avid OMF (.omf) file formats.
A leader in i.LINK (IEEE1394) solutions, ADS Technologies’ “PYRO” line is synonymous with FireWire for the PC and Macintosh. Built around a low-cost but high quality 100% digital IEEE1394 DV capture card, ADS offers three complete DV editing packages to suit a range of budgets and capabilities.

PYRO DV Card – Included with all PYRO Solutions

Each system includes a 100% digital, IEEE1394 interface card—Avid approved—with three DV ports that link your DV or Digital8 camcorder to your computer allowing you to record video to your hard drive in real time while previewing it on your PC screen. The card also lets you control your camcorder so you can play, fast forward, rewind, pause and record—all with VCR type controls. When you have finished editing you can save your video into numerous digital video formats or upload back to your camcorder. The result is 100% digital, first generation lossless video. All systems also include a 6’ 4-pin to 6-pin IEEE1394 cable.

PYRO BasicDV

Includes Ulead VideoStudio 7.0 DVD SE

Beginners will appreciate how easy it is to use VideoStudio. Trim video, add your own soundtrack, create compelling titles, and drop in stunning effects using an easy-to-learn interface that makes editing videos fun. VideoStudio includes DV SmartPlay an intuitive video editor that offers both ease of use and powerful editing functions. DV SmartPlay enables you to eliminate the time consuming rendering process and keep first generation quality video while saving valuable storage.

PYRO 1394DV

Same as Pyro BasicDV plus—

Ulead DVD MovieFactory Wizard Plug-in

DVD MovieFactory, with its simple wizard-style authoring process, makes burning your movies onto DVDs quick and easy.

- Create professional-looking scene selection menus
- Use your CD or DVD burner
- Share on DVD, VCD, or SVCD
- Create your own CD labels and case covers

Ulead DVD PictureShow

DVD PictureShow lets you use your CD or DVD burner to create exciting photo slide shows that play on many standard DVD players. Now you can easily share your photos on TV!

- Great slideshows in just a few clicks
- Exciting slideshow features
- Get excellent results from inexpensive digital cameras or scanned images.

PYRO ProfessionalDV

PYRO Professional DV is the perfect marriage of the world’s best-selling 1394/FireWire card with the industry standard in DV editing software, Adobe Premiere Pro. To round out the bundle, it also includes Adobe DVD Encore for DVD authoring & Adobe Audition for audio editing and creation.

Adobe Premiere Pro: Real-time video and audio editing tools give you precise control over virtually every aspect of your production. From advanced color correction to 5.1 surround sound mixing, you have the tools you need at your fingertips. Plus, flexible import and export options reduce format constraints. Built for superior performance of Windows XP, Premiere Pro takes video production to an entirely new level. In just minutes, you can capture video in this easy-to-use capture and playback software. With Capture Wizard, preview your video at up to 720 x 480 full screen, choose your bit rate and use advanced settings to capture video.

Adobe Audition: Designed for audio and video professionals, Audition delivers advanced audio mixing, editing, mastering, and effects processing capabilities. Mix up to 128 tracks, edit individual audio files, create loops, and use more than 45 DSP effects.

Adobe Encore DVD: Take professional DVD authoring to a new level of creativity with a flexible interface and a comprehensive set of text and menu design tools. Import and convert source files automatically to MPEG-2 video and Dolby Digital audio.
The Ultimate DV Capture and Editing Solution

A complete, fully integrated hardware/software solution, PYRO A/V Link Pro provides the best value and the best components for capturing, editing and exporting both analog and digital video in real time. PYRO A/V Link Pro hardware includes the PYRO A/V Link and an external box that connects to your computer via FireWire. With composite, S-Video and component connectors, you can capture video from any source. For video editing, it includes the industry standard in DV editing software, Adobe Premiere Pro. And to round out this value-packed bundle, Adobe DVD Encore for DVD authoring & Adobe Audition for audio editing and creation are included as well.

PYRO1394 Drive Kit

Data intensive files such as digital video and multi-media projects require a tremendous amount of storage. The PYRO1394 Drive Enclosure is the perfect external storage solution. It features an external drive enclosure that enables you to convert an IDE Ultra DMA/33 or 66 drive, ATA-100 Drive, CD-ROM, CD-RW, DVD or DVD-RAM drive into a FireWire drive simply by plugging into the ADS Native Bridge Board inside the enclosure. With up to 400Mpbs/sec and hot swappable, the Drive Kit is ideal for those who need a faster bus than USB, but don’t want the hassle of SCSI devices.

DVD XPress

DVD XPress is the fastest and easiest way to get Hollywood quality video into your computer so you can burn to disk or publish on to the Internet. Capture video into MPEG-1 or MPEG-2 (VCD, SVCD or DVD) at up to 720 x 480 pixel resolution from any analog or digital source. Capture video in the Easy to use Capture Wizard application or VideoStudio 7.0 DVD SE and then “Create Disk” to burn your movies on to CD or DVD disk. If you want to do more than straight archiving to disk, DVD XPress includes video editing with an integrated DVD Authoring tool that allow you to get very creative. Use VideoStudio 7.0 DVD SE to add transitions, video filters, video overlay, fast or slow motion effects, and animated titles, back ground music and then author your DVD disk.

- Utilizes the latest in video conversion and filtering technology (temporal and spatial video pre-processing filters) to help reduce noise on old VHS tapes or TV signals.
- Exclusive “Audio-Lock” technology provides perfect lip sync all the way through the capture, edit and disk burning process.
- Capture from any analog video source in MPEG-1 or MPEG-2 video formats including VCD, SVCD and DVD formats via RCA (Composite) or S-Video inputs.
- Capture DVD (MPEG-2) at video bit rates from 1 Mb/sec. up to 15 Mb/sec. (up to 4 Mb/sec. for USB 1.1 connections)
- USB 2.0 connection to the PC, backward compatible to USB 1.1
- Capture using Constant or Variable bit rates and other custom settings.
- Brightness, Contrast, Chroma, Saturation and Hue controls
- Use Video Studio 7 SE DVD to capture and then burn to disk in quick, simple steps.

Instant DVD Solutions

DVD XPress: Input only with Capture Wizard and ULead DVD 7.0 SE ......124.95
Instant DVD 2.0: Same as above plus it adds composite and S-Video output and additional software —ULead DVD Movie Factory (SE) and muvee autoProducer DVD SE......................................174.95
USB Instant DVD+DV: Same as above plus it adds DV input and output as well as full camcorder control .................264.95
Real-Time Editing for Professional Video Production

Reach a new level of productivity with the breakthrough real-time editing experience in Adobe Premiere Pro 1.5. The elegant user interface and expansive feature set—which includes multiple, nestable timelines, advanced color correction, and subframe audio editing controls—make it fast and easy to get the precise results you’re looking for. Whether you’re editing short- or long-format projects, you have the professional video and audio editing tools you need right at your fingertips—plus the frame-accurate control and immediate results required to deliver outstanding productions.

Unmatched integration between Premiere Pro and other Adobe video software enables unprecedented efficiency. Work across applications that use and recognize common elements, such as keyframes and layers. Easily access and edit the original projects for files you create in another Adobe application and place in Premiere Pro, or quickly create new files in those applications with the resolution and aspect ratio from your project automatically applied. Familiar Adobe-standard tools and shortcuts ease the learning curve. Comprehensive industry compatibility lets you drop your Premiere Pro projects into professional online or offline video production environments. Import and export AAF and EDL files. Enjoy full compatibility with standard and high-definition hardware, VST plug-ins, and advanced ASIO sound cards. And deliver your output for broadcast or virtually any media, including DV, DVD, CD, videotape, and the Web.

FEATURES

Real-Time Editing

◆ See precisely how your video will look with every edit. Full-resolution playback in real time on NTSC, PAL, or VEGA monitors.
◆ Choose from hundreds of real-time video and audio effects. Even create and save your own settings to instantly apply again and again.
◆ Add another dimension to your projects with new 3D plug-ins that provide instant, amazing effects.
◆ Create more natural, elegant-looking effects using sophisticated, spline-based Bézier keyframe controls.
◆ Set your effect parameters for a keyframe, and then save them as presets you can apply anytime to ensure consistency from one project to another.
◆ Instantly apply dozens of advanced ready-made effects, including picture-in-picture, pan and zoom, and many more.
◆ Set linear- or Bézier-controlled keyframes for individual parameters of the effects you apply with the Effect Controls palette, which looks and works like the one in After Effects.

Elegantly Designed Interface

◆ Remove unused material from your project and consolidate the project’s media in one location for archiving with Project Manager.
◆ Experiment more freely and easily manage complex projects more efficiently using multiple, nestable timelines.
◆ Easily organize your workspace with dockable palettes that let you quickly navigate between editing functions.
◆ Use the interactive Project window to adjust in and out points, create custom columns with fields or checkboxes, and more. Choose the List view to see file details displayed alongside a thumbnail or use the Storyboard view to see media in an orderly grid.
◆ Precise control over ripple, roll, slip, and slide edits using the Trim window, which opens separately and gives real-time feedback.
◆ See side-by-side Source and Program views in the Monitor window, which presents familiar tools in a sleek design that puts more controls at your fingertips.
◆ Capture a tape in separate clips in one step using the new scene detection feature.

Advanced Color Control

◆ Use color correction tools to adjust hue, saturation, and lightness for highlights, midtones, and shadows; replace a color throughout a clip with a single selection; and more.
◆ Automatically improve image quality using Adobe Photoshop style filters, including Auto Levels, Auto Color, Auto Contrast, and Shadows/Highlights.
◆ Preserve the color values of original source footage and improve bandwidth efficiency by avoiding color conversions, thanks to native support for YUV processing.
◆ Monitor data readouts with built-in waveforms and vectorscopes to ensure your clips share a common color spectrum and fall within legal broadcast limits.

Optimized Performance

◆ Make the most of multiple processors, advanced multi-threading technology, hyper-threading support, and SSE2 optimization on the latest Pentium-based Windows XP systems. Get immediate feedback during effect editing and manipulation thanks to built-in CPU optimizations.
Adobe After Effects Integration
- Import Premiere Pro projects directly into the After Effects Timeline with video and audio arranged as layers, and embed project-linked After Effects clips to edit in Premiere Pro.
- Access the plug-ins from your installed version of After Effects directly within Premiere Pro for even more visual effects.
- Simply copy and paste between Premiere Pro and After Effects.

Adobe Photoshop Integration
- Import layered Photoshop files as a single flattened file, or import the files as a sequence with each layer arranged on a separate video track.
- Quickly create a new image in Photoshop with the resolution and pixel aspect ratio of your current Premiere Pro project (some features require Photoshop CS).

Adobe Encore DVD & Audition
- Export AVI and MPEG-2 files to Adobe Encore DVD software to author multilanguage DVDs with interactive menus and multiple audio and subtitle tracks.
- Timeline markers are recognized as chapter points.
- Import high-quality audio files from Adobe Audition software for use in your video productions. Easily modify these files using the Edit Original feature, which lets you open the original multitrack session right in Adobe Audition.

Online/Offline Flexibility
- Easily import and export project data with support for Advanced Authoring Format (AAF) and Edit Decision List (EDL) format.
- Edit low-resolution digital video offline, and then recapture and reacquire material and finish your work in uncompressed, high-definition resolution.
- Import and export in all major industry-leading video and audio formats.
- Work with AI, AI sequence, PSD, PSD sequence, JPEG, TGA, TGA sequence, TIFF, TIFF sequence, PCX, BMP, and BMP sequence files.

Adobe Premiere Pro 1.5

Adobe Video Collection 2.5 Standard Edition
The Video Collection 2.5 Standard Edition delivers a comprehensive, integrated toolset for Windows-based video production. Transform your video into an award-winning production with Premiere Pro 1.5 software. Create stunning motion graphics and visual effects with Adobe After Effects 6.5 Standard software. Produce high-quality audio for any production with Adobe Audition 1.5 software, and author interactive, multi-language DVDs with Adobe Encore DVD 1.5 software. An exceptional value, the Adobe Video Collection pairs creative control with the ability to deliver professional results for film, video, DVD, or the Web .................................799.95

Support for HD Content
- Import, edit, and deliver HD productions using your choice of a wide variety of certified third-party hardware.
- Encode HD Windows Media 9 Series content using the built-in Media Encoder.
- Edit HD content in its native resolution with support for 480p, 720p, and 1080i.

Scalable Editing Platform
- Assign multiple input/output ports for audio recording and playback with support for ASIO hardware cards. Integrate with existing studios and connect to audio editing systems like Digidesign Pro Tools.
- Capture the look of film with support for Panasonic’s AG-DVX100/100A 24P format cameras.
- Produce content for the leading delivery media, including broadcast formats, DV, DVD, CD, VCD, SVCD, and the Web.

Enhanced Audio Editing
- Adjust audio clips with the precision of up to 1/96,000 of a second to produce more precise L-cuts or eliminate small pops, crackles, and other audio problems.
- Import, edit, and export high-quality 24-bit, 96kHz audio files.
- Support for the industry-standard VST plug-in architecture allows you to work with advanced audio filters. Jump start your audio-filtering experience with a library of included VST plug-ins.
- Enjoy the freedom to choose with extensive hardware support that lets you work with everything from an impressive list of DVCAM gear to the latest video decks and camcorders to third-party hardware, including SD and HD boards.

Creative Labs Sound Blaster Live

Adobe Premiere Turnkey System
- 10-bay tower with 400w power supply
- Intel Pentium 4 2.8 GHz Processor
- 512 MB of RAM (Kingston or PNY)
- Matrox P650 128-bit 64MB AGP Dual Display Card
- 2-port Firewire Card
- 80GB IDE System Drive, and 120GB Drive for A/V storage
- Internal DVD-ROM/CD-RW Combo Drive
- Creative Labs Sound Blaster Live
- Windows XP Pro operating system
- Adobe Premiere Pro 1.5 installed
- 3.5” Floppy Disc, Microsoft Mouse, Keyboard
- One-year warranty on parts and labor with tech support

ADOBE
PREMIERE PRO 1.5
VIDE0 & AUDIO EDITING

ORDER & INFO. (212) 444-5010 • FAX: (212) 239-7770 (800) 947-7008
1-800-947-5525 • www.bhphotovideo.com
Professional Non-Linear Editing Software

Xpress DV is the affordable, real-time DV studio from the company that ignited the digital video revolution. Featuring more customizable real-time effects than any other product in its class, Xpress DV combines legendary Avid ease of use with the powerful tools that continue to define the editing industry. With Windows and Macintosh versions for one low price, Xpress DV is perfect for anyone who wants to explore the exciting world of digital video.

Features include over 100 customizable real-time effects, including moving titles, picture-in-picture effects, and automatic color correction that enable you to adjust an entire sequence with a single click. There are also powerful audio tools, extensive import/export capabilities, DVD authoring and the award-winning user interface. The software is highly customizable, allowing users to tailor the interface and keyboard to suit their working styles, and take advantage of customizable toolsets that can instantly re-map the interface for basic editing, color correction, source/record editing, effects editing, audio editing, and capture. Upgradeable and 100% compatible with the entire family of Avid editing products.

Real-time Architecture

Xpress DV offers more customizable real-time effects than any other product in its class, including titles, keys, transitions, and audio mixes with multiple simultaneous streams to provide the most powerful software-only, real-time system available.

- Over 100 customizable real-time software effects and multiple simultaneous real-time streams to create and view richly layered effects without rendering
- Real-time professional level color correction tools that increase productivity and deliver better, more sophisticated results
- Real-time performance on desktops and notebooks (Mac/Windows)
- ExpertRender optimizes real-time performance
- Keyframable, real-time picture-in-picture effects
- Expert color correction toolset (based on sophisticated color correction technology found in Avid Symphony)
  - Patent-pending NaturalMatch color matching allows you to click on a face in two shots to instantly match skin tones
  - Three-window view allows you to more easily compare color from frame to frame
  - Customizable real-time waveform and vectorscope for more accurate assessment of color correction
  - Customizable, advanced histogram and parade monitors
- Real-time audio dissolves and punch-in

Customizable, Professional Tools

Xpress DV allows you to personalize every aspect of the editing interface – toolsets, timeline, keyboards, buttons, even interface colors. Work the way you want to work.

- Industry-standard Avid user interface that’s easy to navigate and learn
- Customizable menu, toolbars and keyboard commands to enhance your workflow can be saved and transferred to other Avid editing systems
- Unlimited video tracks via nesting for dynamic multi-layered compositions
- Best of class audio tools including real-time audio mix, punch-in, EQ,automation gain, stereo VU meters, and DigiDesign AudioSuite
- Easy manipulation of imported graphics, including Photoshop layers
- AutoSave with Attic folder to revert to previous version and 32 levels of undo
- Superior title animation, effects, and 2D/3D compositing through Boris Graffiti LTD
- SuperBins provide access to all media using minimal screen real estate
- 24-bit audio support
- DV Scene Extraction
- Avid Pan & Zoom

Hundreds of Hollywood films and thousands of television shows, commercials, and music video are edited every year using Avid software. Experience the combination of speed, power and ease-of-use that has made Avid the leading choice of professional editors for nearly 20 years.
**Productivity Features**

Xpress DV is easier and faster to use thanks to Avid’s built-in software experts: Dynamic Storyboarding, One-Step Technology, NaturalMatch color correction, SuperBins, DV Scene Extraction, Quick Transitions, and more.

- Windows XP Professional and Macintosh OS X versions in one box
- Avid One-Step technology to automate common tasks
- Dynamic storyboarding with drag and drop to the timeline
- Scrub clips with JKL control in any bin window
- Award-winning online tutorial and documentation
- DV scene extraction instantly builds individual clips from a single DV clip
- Six customizable toolsets speed up common tasks: basic editing, source/record editing, color correction, effects editing, audio editing and capture from tape
- JKL trim
- Segment drag anywhere and user selectable snap mode
- Dual rolling trim
- Highly customizable user interface
- AutoSave and 32 levels of undo

**Expert Color Correction**

Avid’s real-time color correction tools provide unmatched professional-caliber functionality that’s also incredibly easy to use. One-touch Auto Correct automatically makes each shot look its best, or you can go even further with color correction tools based on Avid Symphony finishing software.

- NaturalMatch expert can match skin tones and other elements across scenes with one click
- OneStep AutoCorrect can fix an entire sequence with one click
- Keyframeable color effects
- Three-up color correction windows
- Advanced Waveform and Vectorscope monitors
- Before and after split screens

**Interoperability + Workflow**

- Avid DV codec provides exceptional quality
- Export in many popular formats, including MPEG, Windows Media and QuickTime
- OMF files for collaboration with graphics and other systems. EDL import/export allows finishing in tape online facilities
- Seamless audio exchange with Digidesign Pro Tools systems
- Supports all AVX 1.5 plug ins including 3rd party RT plug ins
- Every box includes both Mac and Windows software and license. Use either or both.
- Application, projects and media identical on both platforms
- Support for popular FireWire cards, cameras and decks
- Multiprocessor optimized

**Advanced Software Experts**

- One Step Dynamic Storyboards
- Quick Transitions
- AutoSave
- SuperBin
- DV Scene Extraction
- ExpertRender

**Encoding Support**

- QuickTime (MOV)
- Sorenson Squeeze 3
- Flash, Flash Video (SWF, FLV)
- SVCD, VCD
- Windows Media 7, 8, 9 (PC only)
- Real Media (PC only)
- MPEG-1, MPEG-2

**Fast, Easy DVD Creation**

You’ve finished your edit. Now create a DVD with only a few clicks using the industry-leading DVD creation tool for Windows. Bundled Sonic DVDit SE automatically converts your audio to Dolby Digital, and supports a wide range of devices and media. Mac users can also use any of their favorite DVD-authoring applications for their Avid Xpress DV projects.

**In the Box...**

Avid Xpress DV box includes software for both the Macintosh OS X and Windows XP platforms, plus Boris Graffiti LTD for 2D title creation and animation; Sorenson Squeeze 3 Lite for high-quality encoding to Windows Media 9, QuickTime, Flash, MPEG-2, and other formats; and Sonic Solutions DVDit! SE for DVD authoring.
64-bit Supercomputers for Video and DVD Creation

The world’s fastest 64-bit personal computers, the Power Mac G5 combines rock solid engineering reflective of the full-throttle Xserve architecture with massively enhanced output and connectivity. Available at speeds up to dual 2GHz with a ultra-high bandwidth system architecture featuring AGP 8X and PCI-X, these turbocharged computers rip through digital video and audio projects faster than Pentiums can say “uncle”. With the 64-bit PowerPC G5 processor supporting up to 8GB of 400MHz, 128-bit DDR SDRAM and fast 6.4 Gbps throughput, you can write large projects to memory 40x faster than to a hard disk.

Available in three powerful configurations — 1.6GHz, and dual 1.8GHz and 2GHz models, they each feature the legendary 4X SuperDrive (DVD-R/CD-RW), three PCI-X slots, one FireWire 800 and two FireWire 400 ports, three USB 2.0 ports (plus two USB 1.1 ports on the keyboard), ADC connector, DVI connector, analog audio I/O, optical S/PDIF I/O, front headphone and speaker jack and built-in Gigabit Ethernet — as standard.

Finally, each Power Mac G5 is supported by Mac OS X’s robust foundation, which features multithreading and symmetric multiprocessing for an additional performance boost.

FEATURES

Exceptional Performance

- The latest in PCI technology, the PCI-X protocol is perfect for high-performance PCI devices, increasing speeds from 33MHz to 133MHz and throughput from 266MBps to 2GBps.

- Gigabit Ethernet, FireWire, USB 2.0 and optical digital and analog audio are all integrated through two bidirectional 16-bit, 800MHz HyperTransport interconnects for a maximum throughput of 3.2GB per second.

- Ultra-high bandwidth system architecture features a 1GHz frontside bus — one on each processor — for maximum throughput. And a point-to-point system controller lets data move directly between subsystems, without affecting processor function.

- Designed for whisper-quiet operation, the Power Mac G5’s enclosure houses four discrete thermal zones to compartmentalize the primary heat-producing components.

- The Power Mac G5’s built-in handles will come in handy the day you need to move all your stuff into that corner office you’ve always had your eye on.

iDVD

DVD Authoring Software

The SuperDrive comes with the software needed to create your own DVDs — faster than ever before. With iDVD preinstalled, the Power Mac G5 is a complete DVD production studio. And it’s the fastest on the planet, too.

- There’s no easier way to create quality DVDs and share your photos, movies and music with friends and family than with iDVD. Offering tight drag-and-drop integration with the other apps in the iLife suite, iDVD also gives you breathtaking themes, slideshow options, higher quality longer length DVDs, and innovative organizational tools.

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- Add transitions to the slideshows and menus. Make the background for your new DVD menu dissolve with a drop of water into the movie of your latest vacation.

- Don’t worry about running out of room on the disc. Resource meter built into iDVD keeps track of how much storage space you have left for your movies, photos and music.

- Keynote makes it a snap to create cinema-quality presentations with professional-caliber themes, razor-sharp text and beautiful charts and tables. Make layered images with transparent graphics and text, and adjust the transparency of each layer as you choose.
Power Mac G5 Specifications:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>M9020LL/A</th>
<th>M9393LL/A</th>
<th>M9032LL/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5 Processor</td>
<td>1.6 GHz</td>
<td>Dual 1.8 GHz</td>
<td>Dual 2GHz</td>
</tr>
<tr>
<td>L2 Cache (per processor)</td>
<td>512K</td>
<td>512K</td>
<td>512K</td>
</tr>
<tr>
<td>Frontside Bus</td>
<td>800MHz</td>
<td>900MHz</td>
<td>1GHz per processor</td>
</tr>
<tr>
<td>Main Memory (DDR SDRAM)</td>
<td>256MB PC2700 (333MHz) 4GB maximum</td>
<td>512MB PC3200 (400MHz) 8GB maximum</td>
<td>512MB PC3200 (400MHz) 8GB maximum</td>
</tr>
<tr>
<td>Ultra ATA/100 Hard Drive</td>
<td>80GB (7200 rpm)</td>
<td>160GB (7200 rpm)</td>
<td>160GB (7200 rpm)</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>SuperDrive DVD-R/CD-RW</td>
<td>SuperDrive DVD-R/CD-RW</td>
<td>SuperDrive DVD-R/CD-RW</td>
</tr>
<tr>
<td>Graphics Support</td>
<td>NVIDIA GeForce FX 5200 w/64MB of DDR SDRAM</td>
<td>NVIDIA GeForce FX 5200 w/64MB of DDR SDRAM</td>
<td>ATI Radeon 9600 Pro w/64MB of DDR SDRAM</td>
</tr>
<tr>
<td>High Performance I/O</td>
<td>One FireWire 800 port, two FireWire 400 ports (one on front), USB 2.0 ports (two USB 1.1 ports (on keyboard), AGP 8X Pro slot with graphics card installed, ADC and DV1 connectors for dual display support.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>Optical digital audio I/O, analog audio I/O, front headphone minijack, speaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Networking</td>
<td>Built-in 10/100/1000BASE-T Ethernet and 56K modem; AirPort ready</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Each includes Apple keyboard and mouse, DV1 to VGA adapter, AirPort antenna, Mac OS X v10.2 “Jaguar”, iLife (iMovie, iPhoto, iMovie, iDVD, QuickBooks for Mac, iFax, iAd Director Toolkit, Microsoft Office X Test Drive, FileMaker Pro Trial, OmniGraffle, OmniOutliner, GraphicConverter, iChat, Safari, Sherlock, Address Book, iCal, iSync, DVD Player, Mail, Acrobat Reader,Classic environment & Apple Developer Tools.

**Graphics and Display Support**

- Compared with the AGP 4X interface, the G5’s AGP 8X Pro graphics bus effectively doubles the maximum transfer rate and doubles the amount of data transferred in a single AGP bus cycle. The 66MHz AGP 8X Pro bus achieves a 533MHz data rate and a maximum bandwidth of 2.1GB per second — ideal for the included ultrafast ATI Radeon 9800 Pro or NVIDIA GeForce FX 5200 Ultra graphics cards.
- Supports 1920 x 1200 pixel digital resolutions and 1600 x 1200 analog resolutions
- ADC and DVI connectors; DVI to VGA adapter included
- Dual display support for extended desktop and video mirroring modes
- Support for two Apple flat panel displays

**Storage and Expansion**

- Two Serial ATA controllers supporting up to 150-MBps data throughput per hard drive
- Two 3.5-inch hard drive expansion bays with drive guides for a second drive
  - One 80GB or 160GB 7200-rpm Serial ATA drive installed in standard configurations
  - Support for up to two internal Serial ATA drives; 500GB maximum system capacity
- 8MB memory buffers on all hard drives
- Optical drive bay with SuperDrive (DVD-R/CD-RW) installed; writes DVD-R discs at up to 4x, reads DVDs at up to 8x, writes CD-R discs at up to 16x and CD-RW discs at up to 10x, reads CDs at up to 32x speed.

**iMovie2 – Video Editing Software**

With iMovie 2, you can create dazzling Desktop Movies complete with effects, voice-overs, music scores, transitions, titles, credits, and much more. iMovie 2 is simply the best way to make great movies on your Mac. iMovie 2 gives you everything you need to create your own desktop movies. There are no complicated procedures to learn. If you can cut and paste, and drag and drop, you can transform any digital video footage into a polished movie with a few simple steps:

1. Capture— With a click of your mouse, iMovie automatically transfers video and audio from your DV camcorder to your Mac through a single FireWire cable.
2. Edit—Edit clips and arrange them in any order you, then add cool effects such as dissolves, fades, and pushes for professional-looking transitions between scenes.
3. Enhance—Spice up your flick with a music soundtrack, voice-overs, and sound effects; apply video effects including Soft Focus, Sepia Tone and Water Ripple; then polish it off with titles and credits.
4. Share—When done you can view it full screen or transfer back to your camcorder for recording or watching on TV.

**DVD-R/CD-RW SuperDrive**

Every Power Mac G5 comes with a SuperDrive (DVD-R/CD-RW) that lets you burn both CDs and DVDs that can be played in most consumer DVD players. The SuperDrive reads DVD titles at 8x and writes to 4.7-gigabyte DVD-R discs at 4x. And if you want to watch a DVD while your work is burning, or archive material at the same time, all Power Mac G5s offer a second optical bay. Choose a combo DVD/CD-RW to fill it up.
Final Cut Pro 4 is a scalable digital nonlinear editing system built on a resolution-independent architecture. From the innovative OfflineRT and DV, up to uncompressed 10-bit 601 or HD, Final Cut Pro 4 is perfect for editing and finishing a wide variety of programs at virtually any resolution or frame rate. Pros will appreciate the rich editing tools — including support for asymmetric trimming — and customization features such as fully customizable keyboards and workspace layouts. RT Extreme, a sophisticated multi-stream real-time architecture, supports an increased number of video streams and effects. Multi-track audio mixing, multi-channel output and real-time audio effects enhance NLE-based audio editing. FCP4 includes two additional creative tools: LiveType, a broadcast-quality title generator, and Soundtrack, an intuitive tool for creating musical scores. Uncompromising image quality, sample-accurate A/V synchronization and corrective finishing tools make FCP4 ideal for SD and HD broadcast applications.

Apple’s SD and HD finishing formats let online editors work with 10-bit uncompressed video, composite elements and render effects with incredible clarity and precision using HDR imaging to render video using an amazing 32-bits per channel. XML interchange format — a new, standards-based composition and metadata interchange format, bridges the gap between disparate edit systems and customized post-production workflows. XML interchange format, AAF support and the ubiquity of QuickTime across professional applications give FCP4 the flexibility to fit into any production pipeline. Enhanced EDL support and FXScript — a visual effects scripting language — make Final Cut Pro 4 the most extensible NLE available.

Sophisticated Editing, Compositing and Effects

Final Cut Pro 4 has sophisticated editing, compositing, effects, and audio tools that allow professional editors to meet demanding post-production deadlines while maintaining their creativity and passion for high-quality results.

RT Extreme

RT Extreme leverages the strengths of Mac OS X and the PowerPC G5 processor to support a scalable number of video streams and real-time effects with fully synchronized output to a broadcast monitor for DV and fully uncompressed SD projects. But the RT Extreme engine really comes into its own when you use a dual-processor Power Mac G5 system — which handles up to seven streams of uncompressed SD video. That’s because the number of simultaneous real-time video streams and effects scale with processor performance, delivering greater power and speed as your processing resources increase. And new real-time modes allow you to choose full-resolution output for finishing or real-time preview for maximum simultaneous streams. Final Cut Pro 4’s enhanced multi-stream real-time effects now include output to a NTSC/PAL broadcast monitor for more accurate, real-time previews.

Real-time Effects

Playback and Software Effects

Final Cut Pro 4 gives you innovative features like real-time effects playback, a high-capacity offline format for seamless offline-to-online workflow, and powerful finishing capabilities like advanced color correctors. Final Cut Pro 4’s software-based, real-time effects let you explore “what-if” scenarios — to switch effects on a whim — without having to render them. So you can check out what a scene would look like if you used, for example, a Ripple-Dissolve instead of a Cross-Dissolve in real time. Use varying combinations of real-time effects and still have real-time playback, depending on the speed and number of processors in your computer. Each effects operation you apply to a clip makes varying demands on the processing capabilities of your G5 depending on the effect. (When the total processing demands of all combined effects exceed your system’s capabilities you’ll have to render them.)
Editing and Timeline

Final Cut Pro 4 gives you a unique editing environment that includes the tools professional editors require to cut video with speed and precision.

Editors can now perform asymmetric and dynamic trims, use master clips, gang playback between windows, and much more. The Timeline supports variable track heights, keyframe graphs, and Auto Select tools. Final Cut Pro 4’s visual controls – like buttons and shortcut menu commands – give you total control of the editing process.

- Edit at 23.976, true 24, 25, 29.97, or 30 fps
- Source/record three-point editing model
- Insert and overwrite with or without transitions
- Replace, fit to fill, and superimpose edits
- Edit overlay for drag-and-drop editing
- Blade and Blade All tools for adding edits
- Extend and split edits
- Sync indicators in Timeline with automatic correction options
- Adjacent (through edit) indicators in Timeline
- Dupe detection in Timeline
- Keyframe graphs
- Track targeting, Track locking
- Auto Select tools
- Timecode or frames in Timeline
- Clip, sequence, scoring, chapter, and compression markers
- Marker exports to DVD Studio Pro for chapter and compression settings
- Clip and sequence marker export to LiveType for titling
- Waveform display in Timeline
- Opacity and audio level overlays in timeline
- Custom, independent track heights

Trimming

- Ripple, roll, slip, and slide
- Asymmetric, multitrack trimming
- Dynamic JKL trimming
- Trim window, Timeline trimming
- Keyboard and numeric trimming

Designed for Speed

Final Cut Pro 4 lets you customize the way you work by creating your own keyboard shortcuts and shortcut buttons for many commands. Select from more than 600 tools and commands to customize your keyboard using multiple modifier keys and interface buttons. The Browser, window arrangements and Timeline settings can also be customized to suit the way you like to work, and you can save your settings and load them onto any other Final Cut Pro 4 system.

Customizing your Keyboard:

Final Cut Pro 4 lets you use your own keyboard shortcuts to perform actions on your computer using the keyboard instead of pointing and clicking. You can customize the keyboard to override Final Cut Pro 4’s default keyboard shortcuts individually for several commands or for the entire keyboard layout. This way, you can set up keyboard shortcuts based on your preferred set of keys and work habits. You can also set up your keyboard to use the same keyboard shortcuts you’ve used in other applications. Naturally, you can clear your customized keyboard layout at any time, removing most of the commands and their keyboard shortcuts (a feature that’s particularly useful if you want to clear a keyboard layout you previously set up and change the commands for another project).

Export and Import Keyboard Layouts:

Once you set up your preferred shortcuts, you can export your keyboard layout for other group members to use. This works both ways, so you can also import layouts that others have set up (useful options when you’re working on multiple computers or with others). What’s more, Final Cut Pro 4 lets you save text documents that list commands and your keyboard shortcut equivalents, so you can print out a handy guide for easy reference.
Soundtrack
The easiest way for video editors to create original royalty-free music, Soundtrack puts professional audio scoring capabilities right at your fingertips.

- Soundtrack lets you easily create high-quality, royalty-free music for your projects. As a production tool, it’s perfect for creating 15-, 30- and 60-second original music content, promotion spot and bumpers as well as longer programs.
- Combine and arrange audio loops and sound effects to create original, royalty-free music soundtracks.
- Combine and match loops of different tempos and musical keys in real-time — Soundtrack does it for you automatically, so you don’t need to have a background in music.
- Automate your effects and entire mix for complete creative control.
- Import Final Cut Pro 4 video projects complete with Scoring Markers to create perfectly timed professional sounding soundtracks.
- Use the powerful search engine to quickly find audio loops and sound effects based on instrument, musical genre or mood.
- Import AIFF, WAV, and ACID format audio files, and get access to hundreds of third-party, multi-genre, royalty-free loop CDs.
- Soundtrack enables you to create original music scores on your own — no professional musical experience necessary. And by letting you develop your musical scores in real-time, Soundtrack allows you to quickly evaluate dozens of different alternatives before you export your digital content for output.
- Soundtrack includes thousands of professionally recorded, royalty-free instrument and sound effects that you can start using immediately to create original, high-quality music scores.
- As an added bonus, Soundtrack includes over 30 powerful audio plug-ins like reverb, EQ, delay and chorus, as well as specialized effects from Emagic Logic Platinum like SubBass, Bitcrusher and AutoFilter.

Audio
A new on-screen audio mixer, along with an audio router and 24-channel output, raise the bar for nonlinear editor-based audio editing. Final Cut Pro 4’s on-screen mixer supports 99 tracks. Each track contains a fader, level meter, mute, solo and pan controls. A separate master section in the mixer allows for adjustment of the overall level of the mix. Each output channel in the master section includes peak hold level indicators to provide enhanced precision when viewing your overall mix levels. You can define up to four separate views, allowing you to make quick work of large multi-track mixing jobs.

The faders use a continuously varying log scale for more intuitive adjustment of levels and a wider sweet spot around unity gain. Fader automation lets editors mix their audio in real-time. Fader automation can be recorded in three ways — with all keyframes, with reduced keyframes or as peaks only.

Any of the 99 available tracks in a sequence can be routed to 24 channels of discreet output. Group audio channels into mono or stereo output groups and adjust attenuation values for each channel. A stereo down-mix button lets you edit and monitor multi-channel projects easily when working on a portable or where a multi-channel audio interface is inaccessible.

LiveType Titling
LiveType revolutionizes titling with a breakthrough new font standard — LiveFonts, the world’s first animated font standard, as well as a whole new way to create effects.

Now you can create dynamic, professional-quality animated titles quickly and easily with LiveFonts, an easier-to-use approach to keyframe animation, as well as customizable effects, sophisticated project templates, and royalty-free broadcast-quality animated content.

- Features professionally animated font styles and a powerful FontMaker utility. So even before you apply movement and effects to your titles, every character has a life of its own.
- Includes 350 broadcast-quality animated textures and objects that you can use in your projects royalty-free — in effect, allowing even non-animators to produce professional-level content.
- Effects in LiveType are like digital building blocks — modular behaviors that include movement, transformation and timing parameters. The pre-built effects that come with LiveType give you the power to add fades, zooms, rotations, and motion to your titles, and you can create your own styles by adjusting these existing effects within the LiveType interface. Create your own effects dynamically on the fly, and can even save them for use on future projects.
- Thanks to LiveType, creating animation is easier than ever before. Each keyframe, for instance, contains all the parameters for an element, eliminating the time-consuming hassle of long keyframe stacks. Powerful timing features allow you to precisely control every aspect of your animation. And since LiveType treats every character of the word as a separate layer, sequencing gives you the freedom to move single characters within a text block with individual timing elements, so you’re not limited to using blocks of text that fly around the screen as one image.
- Import and export QTIme-supported formats, including Photoshop, JPEG, TIFF and PICT.
- Import clips from Final Cut Pro 4 complete with markers, so it’s easy to synchronize your titles to important video and audio transitions in your Final Cut Pro 4 projects.
Color Correction

- Color correction is one of the last steps in the post-production workflow. If making sure that peoples’ flesh tones on tape look quite the same as they do in real life isn’t enough of a challenge, wait till you encounter the trickier aspects of lighting.
- To ensure that flesh tones look the way they do in real life, Final Cut Pro 4’s color correction filters let you fix imbalances in lighting by adjusting the color balance, black levels, mids and white levels of each individual clip in your project. That way all of the different clips that make up a scene can be balanced to match one another, so they all look as if they’re happening at the same time, in the same place, with the same lighting.

Compressor (MPEG-2 Encoder)

- Compressor is designed to ensure that the highest possible quality is maintained when encoding projects from Final Cut Pro 4 into MPEG-2 for DVD authoring.
- Compressor can also be used as an integrated part of your Final Cut Pro 4-to-DVD Studio Pro 2 workflow. This means that you don’t need to create an intermediate file to be encoded by another application. And that means that you save time (because no export time is required), save hard disk space (since extra disk space for an intermediate file is no longer required), and get pristine-quality video (since you’ll be avoiding the generational loss that occurs when exporting to another file).

Media Management

- Final Cut Pro 4 uses XML interchange format technology to give you an unprecedented level of control over integration with other nonlinear editing systems and production workflows through the interchange of project, bin, sequence, clip, metadata and media data information.
- The new interchange format for exchanging content with other nonlinear editing systems, asset management systems and broadcast servers, XML interchange format describes every aspect of a program from edits and transitions to effects, color correction settings, and keyframe data.

Intelligent Codecs

Final Cut Pro 4 ships with a wide range of codecs, including 8- and 10-bit uncompressed YUV (4:2:2) SD and HD codecs, native support for Panasonic DVCPRO50, 50Mbs/4:2:2 video over FireWire, and a newly optimized, high-quality MPEG-2 codec for encoding and distribution. This lets you capture, play back and output different formats of digital video in a variety of compressed or uncompressed formats.

When you start editing with Final Cut Pro 4, you’ll need to choose the codec that clips in your edited sequence use. For instance, if you’re editing material captured from an NTSC DV camcorder, you’ll need to select the DV-NTSC codec. Just be assured that whatever type of codec you need to work with, Final Cut Pro comes with a wide range of them:
- Codecs include, DVCPRO50 DV-NTSC and DV-PAL, OfflineRT using PhotoJPEG, Apple M-JPEG, JPEG and Animation.

Cinema Tools—Advanced Tools for Film and 24P HD Video

A database that tracks the relationship between your original film and sound with its digitized counterpart in Final Cut Pro 4, Cinema Tools provides the vital link between your original film negative and your digital video edits.

- Supports independent filmmaker by providing affordable tools for finishing on film while editing digitally. Now with support for ink numbers and change lists, bigger-budget productions can use Final Cut Pro 4.
- Adds support to the HD off-line and finishing work flow in Final Cut Pro.
- Studio-produced films go through multiple versions and screenings in post-production. If screenings are done from work-print, the work-print reels need to be re-conformed as changes are made to the digitally edited sequences. Change List feature makes it easy to generate a list of instructions for conforming a work-print reel from any one version of a sequence to any other version of that sequence.
- Supports 35mm (3- and 4-perf) and 16mm film formats
- 24-fps EDL I/O
- 24-fps EDL conversion to/from 29.97 fps
- Import ALE, ATN, FLX, and FTL files, export ALE files, import/export Final Cut Pro batch lists
- Track key numbers, ink numbers, video and audio timecode
- Output following lists: Cut, Change, Optical, Pull, Dupe, Missing elements, Audio EDL
- Link media to database
- Poster frame capability
- Conform clips to specified frame rate
- Reverse telecine function

Check out our complete
Final Cut Pro 4 Turnkey Solutions

All turnkey systems include:
- Final Cut Pro 4
- Final Cut Advanced Training DVD
- Contour Design Shuttle Pro II
- Logic Dedicated Keyboard
- One or two Lacie 19” Electron Blue IV Monitor
- 3-Year Apple Care Warranty
Professional DVD Authoring Software

Redefining the art of DVD authoring DVD Studio Pro 2 gives you unprecedented creative control over the design process. Customize the interface to suit your workflow needs. Apple-designed menu templates let you create DVDs quickly. And you can instantly view tracks, assets and menus, so you can see how your project looks and operates before you build the DVD. Advanced interactivity controls let you create up to 98 stories, use scripting controls for advanced playback options, define remote control functionality, create multiple language DVDs and include DVD-ROM data in your project. Includes a world-class MPEG-2 encoder that generates stunning video at lower bit rates, allowing you to maximize the length of video on a DVD without compromising quality. For more control, two powerful encoding utilities are included: Compressor provides customization and correction of compression files in real time and lets you batch process to MPEG-2 for DVD and MPEG-4 for web streaming. A.Pack encodes uncompressed audio into highly compressed Dolby digital AC-3 streams, which can then be used for full 5.1-channel surround sound.

Three different workspaces to give you maximum flexibility

The Basic configuration enables you to quickly build a DVD, using styles and templates which you can modify. If you’re tackling a more elaborate project, the Extended configuration adds an intuitive workflow with a timeline, Asset bin and Inspector. The Advanced configuration provides a complete set of professional features, exposing the full power of DVD Studio Pro. You can even build your own workspace configurations to fit your particular workflow.

Everything you need to start building DVDs right away can be found in the Basic configuration. With the help of Apple-designed templates and styles, you can quickly build menus, add assets and interactivity by simply dragging and dropping edited video, audio and graphics from the palette. There is no need for a separate graphics application to design menus and buttons for your DVD project, but you can if you want to. Ideal configuration if you need to put something together quickly.

✦ Apple-designed menu templates and styles make it easy to build high-quality DVDs. Customize these templates to suit an individual project and save them to use for future projects, they’ll speed production time and maintain a consistent look and feel.
✦ Quickly create menus using royalty-free templates for marketing, training and sale uses. Additional templates offer solutions for music videos, independent films, TV and ad reels, as well weddings and other events.
✦ Menu Editor provides all the tools you need to create menus. The alignment guides and onscreen title and action-safe area displays help you align elements and keep them inside the title and action safe areas. Shapes and drop zones will help you create beautiful and interesting menus. And you can type text directly into the menu background and format it however you like. Studio Pro 2’s powerful compositing engine quickly renders complex graphics and effects, allowing you to instantly preview menus. And when it comes time to build your project, it will automatically composite your new buttons over motion menus, eliminating the need to do the work in other programs.
✦ Includes drop zones that allow you to add graphic elements to a menu background. Add photos, graphics or movies – rotated, positioned and sized – and you can use shapes to provide irregular edges and borders. With drop zones, you can transform a simple background into a highly customized and interesting canvas. Once you’ve created your drop zones, you can quickly add content from your media tabs or even right from the Finder.
✦ Styles control menu properties such as background assets, button highlights and text colors. Styles work with an existing menu, letting you change areas such as the shape of a button or its text font. While templates affect all aspects of a menu, styles let you customize specific areas. Create your own styles, apply all or just selected parts of a style to a selected part of a menu.
Want more control? Just switch to the Extended configuration and you can work with a timeline-based Track Editor that provides a linear view of a track and its video, audio and subtitle streams. Organize your assets in the Asset Manager and view their properties at a glance. As you select different elements in your project, you can use the Properties inspector to change attributes to really make your DVD stand out from the rest. Import content, automatically transcode QuickTime files, encode to MPEG-2 and Dolby audio, design menus, assemble tracks and polish your project using the intuitive workflow of DVD Studio Pro 2.

◆ Use the context-sensitive Drop Palettes to make otherwise tedious connections in one step, dramatically reducing the work required to make a DVD. Automatically assign functionality in one gesture – for example, make a new track and link it to a button or create slideshows and submenus by dragging one or a group of photos over a menu. You can even create movie scene indexes based on chapter markers in one step.

◆ The timeline can assemble nine video angles, eight audio tracks and 32 subtitles into a single track. It adds trimming and merging options and lets you place, modify and delete chapter markers. Convert slideshows into a track, to add subtitles and audio tracks.

◆ Just as you assemble video assets in the Track Editor, you can assemble still images in slideshows, with fixed or user-controlled duration, with or without audio. Combine slideshows with video tracks on a DVD to provide extra information about the subject, such as historical information, newspaper articles and cast biographies. You can also create presentations with high-quality audio, and even put photo albums and scrapbooks on DVDs. Slideshows uses images in TIFF, JPEG, BMP, PICT and any other QuickTime-based image format.

◆ Connections tab determines how the viewer moves from one element to another. You make links so the viewer jumps from a starting point, or source, to a destination, or target. The Connections tab allows for quick drag and drop changes or keyboard commands for power users.

◆ Stories allow you to play back content in a different sequence, just as you might build a playlist in iTunes. Stories let you create a version of a track that skips some objectionable content, or you may use a short piece of a track as a preview. A story does not increase the amount of disc space the track requires, since it simply plays track markers in a different order. Choose which markers to include and in what order. You can even choose to play a marker’s video more than once. Create up to 98 stories to play back track segments in the order you choose.

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◆ When you assign a video clip as a menu background, you can choose to loop to a frame different from the starting frame. Audio assigned to the menu automatically follows the video as it loops.

◆ Full access to a powerful scripting language. Add sophisticated interactivity and control with scripts assigned to buttons or attached to the start or end of any track, story, menu or marker. The Simulator also provides a complete display of the contents of the SPRMs and GPRMs, letting you verify the script behaviors you created.

◆ Simulator lets you test most aspects of a project by playing the project before it’s built. Also lets you test most connections, including First Play, and provides the functions of a DVD player remote control.

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◆ When you assign a video clip as a menu background, you can choose to loop to a frame different from the starting frame. Audio assigned to the menu automatically follows the video as it loops.

◆ Advanced overlay graphics let you choose up to four colors or shades of gray so that multiple highlight colors appear when buttons are selected or activated. You can configure a menu to support up to 16 different languages. In addition to importing movie files, DVD Studio Pro 2 maintains original chapter markers from Final Cut Pro and iMovie and imports iDVD 3 projects.
LACIE

PORTABLE HARD DRIVES

Data Bank (USB 2.0 and Firewire)

Design by F.A. Porsche, the Data Bank is the most compact hard disk ever. Weighing less than 5 oz, the Data Bank is barely larger than a credit card and thinner than a mobile phone (4.4 x 2.5 x 0.5”). A masterpiece of understated elegance, the Data Bank offers 20GB or 40GB of storage at fast FireWire and USB 2.0 speeds, in a sleek, ingot-shaped magnesium design.

- Hot-pluggable to easily share among cross-platform desktops, it features one FireWire (IEEE1394) and one USB 2.0 port
- USB 2.0 standard boasts transfer rates of up to 480Mbps while still maintaining backward compatibility with USB 1.1 devices. The blazing FireWire interface delivers transfer rates of up to 400Mbps.
- Offers true plug and play connectivity, without the need for driver or software installation for Windows XP and Mac OS X users.
- No power supply needed. Simply connect the drive to your computer and use the power supplied by the FireWire or USB cable.

PocketDrive (USB 2.0 and Firewire)

Designed for today’s traveller, the LaCie PocketDrive family offers an ideal solution for data exchange, backup and archiving on the road. Slender and compact, the drives are easy to carry and feature a silicon bumper for maximum shock protection. Available in two 60GB versions (5400 and 7200 RPM) as well as an 80GB (5400 RPM), the PocketDrive provides both USB 2.0 and Firewire (IEEE1394) interfaces in one drive. With two Firewire ports and one USB port, you can connect and disconnect any of the PocketDrives while the computer is running with immediate device recognition.

- PocketDrives weigh just 12½ ounces, yet they can easily store heavy graphic, audio and video files, and perform complete backups of most systems.
- Designed for people on the move, the PocketDrive is small enough to fit into your pocket and features a special silicone bumper and sturdy casing for proven shock protection
- PC and Mac compatible, the PocketDrive comes complete with USB 2.0 and FireWire cables, AC power adapter, and Lacie’s SilverKeeper backup software (for Mac OS X only).
- SilverKeeper eliminates the time-consuming task of manually backing up your important files, offering you an easy-to-use backup solution.

Mobile Drives (USB 2.0 or Firewire)

The perfect companion for desktop and notebook computers, the LaCie Mobile Drive weighs just 7 oz. to neatly fit in any travel, tote or computer bag, giving you the flexibility to work comfortably at home or away. Available in 20, 40 and 80GB capacities, the Mobile Drive is made with a durable exterior to withstand life on the go. In addition they are bus-powered and don’t require AC adapters, providing more freedom to roam while staying connected.

- Plug and play with USB 2.0 interface, this lightweight, portable drive boasts transfer rates of up to 480Mbits/sec. — while maintaining convenient backward compatibility with USB 1.1 devices
- With FireWire interface and fast transfer rates (up to 400Mbits/s) you can download data or back up important files in no time
Mobile & Desktop Hard Drives

LaCie’s D2 series mobile and desktop hard drives are available in a variety of interfaces for easy connection to Macs and PCs. While USB is best-suited for personal backup and data sharing, Firewire is ideal for use with high-bandwidth applications, such as video and audio editing. All drives are plug-and-play for Mac OS X and Windows 98SE/2000/Me and XP.

- The D2 drives feature a sturdy aluminum case designed to enhance portability, durability, and appearance. Made of a metal alloy that dissipates heat and prolongs drive performance, the drives feature a slender, stylish case that allows you to arrange them vertically on the desktop, horizontally stacked in a desk rack, or mounted in 19” racks.
- Available with up to 500GB of storage, a 250GB D2 drive can store the equivalent of a 385 CD-Juke-Box or 50,000 MP3 songs.
- Fan-free design ensures quiet operation
- The drives are hot-pluggable, allowing for connecting and disconnecting while the computer is running. They are also compatible with Mac and Windows enabling simple cross-platform data sharing and exchange among workstations.

**D2 Firewire Hard Drive**

- Available with up to 250GB capacity, these drives are capable of reaching transfer speeds of up to 800Mbits/s for FireWire 800 users and up to 400Mbits/s for FireWire 400 users, FireWire interfaces, 7200 rpm speed and 8MB buffer (250GB version) makes them one of the fastest storage solutions available for digital content creators.
- Drives are hot-pluggable, allowing for connecting and disconnecting while the computer is running
- Can be connected to any computer equipped with FireWire 800 (9-pin), FireWire 400 (6-pin) or iLink/DV (4-pin) ports.

**D2 Triple Interface Hard Drive**

- This drive is capable of reaching transfer speeds of up to 800Mbits/s for FireWire 800 users, up to 400Mbits/s for FireWire 400 users, and up to 480Mbits/s for USB 2.0 users. This drive’s triple interface, 7200 rpm speed and 8MB buffer make it the fastest-possible storage solution for digital content creators.
- With the appropriate cable, the drives can be connected to any computer equipped with FireWire 800 (9-pin), FireWire 400 (6-pin), USB 2.0 or USB 1.1 ports, making it the most universal drive ever.
- Chained and striped in a FireWire 800 RAID 0 configuration, can reach unprecedented sustained transfer rates of up to 100MB/s, making them ideal for workstation and small-server environments.

**Big Disk Extreme**

- The LaCie Big Disk Extreme is a unique innovation that offers incredible storage capacities up to 500GB in a 5.25” format. Featuring a new, faster chipset, the LaCie Big Disk Extreme is the first FireWire 800 storage device to achieve transfer rates that are up to 50% faster than first-generation FireWire 800 drives. This high-performance drive also allows for native RAID 0 speed without complicated configuration.
- Compatible with Mac and Windows, this drive features two FireWire 800 ports and one FireWire 400 port, making it ideal for audio and video professionals working with large DV/SD video and video RAID.
- Convenient, automatic on/off feature conserves energy and prolongs the life of the drive.

**D2 Accessories**

**LaCie Desk Rack**

Conveniently stack up to four D2 drives in this separate rack and save valuable space on your desk. When holding three drives or less, this sturdy desk rack features an area to neatly store media such as CDs and DVDs. 48.95

**LaCie Security Lock**

Also available for use with the D2 design is a Kensington-type lock to protect your equipment from theft or damage. This security lock can be quickly and easily installed and features a durable steel cable. 18.95

**LaCie Rackmount Kit**

Configure your LaCie D2 drives in standard 19" racks with this optional rack-mounting kit. This kit allows for greater organization of storage peripherals and tidy consolidation of hardware. Kit includes two aluminum brackets and one aluminum junction piece. 38.95

**Included LaCie Drive Stand**

LaCie D2 drives ship with a sturdy metal drive stand that provides stability and enables upright desktop use. When positioned vertically, these slender drives occupy less surface area for more efficient use of desktop space.
**8x d2 DVD±RW**

**USB 2.0/Firewire DVD Rewritable Drive**

This universal drive delivers four DVD formats in a single, slim device. By combining DVD+RW and DVD-RW formats, the LaCie Dual DVD±RW Drive delivers greater creative versatility by eliminating the need to choose one format over another.

- Drive is also capable of writing to CD and DVD formats, which are compatible with nearly all existing DVD-Vide players.
- Encased in Lacie’s d2 design, this drive features Firewire and USB 2.0 (Firewire only on Macintosh version) connections and can be positioned horizontally on the desktop, stacked in a separate desk rack, or mounted in standard racks with the optional rackmount kit.
- Record digital audio, video and data or backup valuable data. Read/write to CD and DVD media. Utilize Easy CD and DVD Creator and Toast Lite to record professional-quality, personalized DVDs.
- Fully hot-pluggable, simply connect the drive and start creating. Drives can be shared between workstations for cost savings.

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**8x INTERNAL DVD+/−RW**

**Internal E-IDE/ATAPI High-Speed DVD Burner**

Edit and author professional, interactive video DVDs, store music files and archive digital photos — all on reliable DVD media. Record data, video and MP3s on DVD general use discs and store up to 4.7GB of data — up to 1,000 songs, more than two hours of MPEG-2 DVD video, or as many as 500,000 documents.

- Discs can be played on most DVD players so you can easily share your creations with family and friends.
- Buffer under run protection reduces failed burns
- Bundled software incorporates easy-to-use interfaces and a range of professional-grade tools, allowing you to create superior, high-quality DVDs to be used for storage, backup or playback
- Ideal for storage and backup of audio, video and data in consumer and corporate environments.

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**d2 FireWire CD-RW**

Equipped with fast record speeds and spacious capacity, the d2 Firewire CD-RW drive in the d2 design boasts an elegant new look that was specifically developed to enhance mobility, functionality and versatility.

- Shipped with comprehensive recording software, you’ll be able to start burning immediately. The LaCie CD Utilities includes all of the necessary drivers and Toast for the Mac and Easy CD Creator for the PC, allowing you to create custom audio CDs, store files and archive your photographs
- As a “plug and play” peripheral, the LaCie CD-RW Drive is easily configured to Macs running OS 9.x and 10.x, as well as Windows 98SE, Me, 2000 and XP. Creating data, audio, photo and multimedia CDs has never been easier.
- With hot-pluggable FireWire technology, you can connect and disconnect your drive without shutting down your computer.
- The LaCie CD-RW is also supported by both the Mac OS and Windows, which means that the LaCie CD-RW Drive can be utilized by an entire department without costly down-time.

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**FireWire Pocket DVD-RW**

**Mobile DVD Recording**

This lightweight, mobile DVD-RW drive offers enough capacity to store large graphic, audio and video files, as well as perform complete backup of most systems on reliable DVD media. An ideal companion for Apple Power Mac computers and PowerBook laptop computers, LaCie’s FireWire Pocket DVD-RW Drive delivers a complete, lightweight DVD recording and authoring solution.

- Record digital video, MP3s and data files on DVD general use discs. Offering generous storage capacity of up to 4.7GB, DVD general use discs are capable of storing as many as 1,000 MP3 songs, up to two hours of MPEG-2 DVD video, thousands of digital still images, and as many as 500,000 documents.
- Ships with full-featured DVD authoring software, as well as CD and DVD recording software for Macintosh so you can burn video, audio or photo CDs and author exciting video DVDs - all from the road.
- FireWire powered, the drive can be connected and disconnected while the computer is running with immediate device recognition. An external power supply isn’t needed.
**CANOPUS**

**ADVC-55**

**Real-Time A-D (Analog-to-DV) Converter**

The ADVC-50 lets you convert your VHS/S-VHS and 8mm/Hi8 video tapes to DV in one simple step. The ADVC-50 is compatible with all OHCI and DV capture cards for Macintosh or PC. No need to install drivers or any applications. Ideal companion to the Canopus DVRaptorRT2 or any OHCI/DV capture card providing both analog input and easy cable access.

- Uses Canopus’ award-winning DV Codec to convert analog video to DV in realtime, and provide the best picture quality preservation.
- Supports locked audio when converting from analog to digital, assuring perfect audio and video synchronization. Capture long clips with perfect audio sync.
- NTSC and PAL compatible, works with Mac and Windows
- Easy to install, the ADVC-50 allows convenient access to video cabling when fitted into the computers 5¼” bay. Alternatively, it can be installed internally as a standard PCI card.

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**ADVC-100**

**Real-Time Analog-to-DV and DV-to-Analog Converter**

Ideal for non-linear editing, the ADVC-100 converts VHS/S-VHS, Hi8 and 8mm video tapes to DV in one simple step. The converted DV streams are then transferred to your PC or Mac via IEEE1394 (FireWire) and stored on your hard drive where they can be manipulated using any photo or video editing application.

- Proprietary DV codec chip provides the industry’s best picture quality preservation during A-D and D-A conversion.
- When used with Canopus DV cards, the ADVC-100 automatically detects whether you’re importing digital or analog video.
- Outputs color bars for reference signal
- Supports locked audio when converting from analog to digital, assuring perfect audio and video synchronization. Capture long clips with perfect audio sync.
- Front and back analog input connectors for permanent connections such as VCRs, which can be connected to the back while all inputs are still available on the front.

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**ADVC-300**

**Bi-directional Analog / Digital Video Conversion**

The ADVC300 is the ultimate bi-directional analog to digital video converter. Featuring high-quality image enhancement technology including digital noise reduction and image stabilization, the ADVC300 instantly cleans, stabilizes and preserves old VHS and Hi8 videos in clean DV format.

- Ideal for capturing and exporting analog video from editing and DVD authoring applications for Windows and Mac. Use as a stand-alone bi-directional analog/digital video converter without using a computer.
- Convert VHS, S-VHS, 8mm and Hi8 tapes to DV and back in one simple step
- ADVC300’s intelligent usability allows for easy setup and connection in any video environment. Front and back I/O connectors provide analog and DV signal pass-through and ensure that cabling is neat and simple.
- Compatible with all widely used DV and analog cameras and decks. High-quality component video output is ideal for monitoring video using a broadcast monitor.
- Features color bar reference signal output and advanced analog input control software for adjusting brightness, contrast, saturation, hue and sharpness.
- Employs advanced 3D Y/C separation, 3D noise reduction and Line Time Base Correction for perfect frame synchronization. Poor analog source video is filtered and stabilized prior to DV conversion. ADVC300 is also ideal for “cleaning” old analog video and output back to analog tape.
ACEDVio is the world’s only analog and DV editing card that is completely compatible with hundreds of video editing applications and all widely used video equipment. By using Canopus’s proven DV codec technology to provide unmatched picture quality, along with the company’s locked audio technology for perfect audio and video synchronization, ACEDVio reflects the strong engineering and product stability found in Canopus’s line of professional level video products. Whether it’s a Windows or Mac computer, VHS or DV camcorder, Final Cut Pro, Xpress DV, Premiere or Vegas editing software, Canopus ACEDVio is the one card for all editing environments providing the broadest compatibility, longest product life and highest return on investment. Available in three configurations: Board only (with Ulead DVD MovieFactory SE) with Vegas Video 4.0 or in a ‘Ultra Bundle’ with Adobe Premier Pro, Audition and Encore.

**FEATURES**

- Connects to all widely used analog and DV cameras and decks including: VHS, S-VHS, Hi-8, Digital8, DV and DVCAM (supporting PAL and NTSC video standards)
- Compatible with Windows and Mac systems. Easy one-card installation requires no additional software drivers. Also provides easy connections for storage devices, CD-RW drives, scanners and more.
- Provides the industry’s best picture quality preservation and locked audio support during analog-to-DV conversion and capture. Locked audio ensures perfect audio and video synchronization at all times.
- Provides video output to a monitor or television while editing.
- Features adjustable brightness, contrast, saturation, hue and sharpness controls on analog video input.
- ACEDVio (all versions) also includes Ulead DVD MovieFactory 2.0 SE, Ulead’s popular DVD creation software. Combined with ACEDVio, DVD MovieFactory allows you to capture directly from a camcorder into a VCD or DVD project, as well as providing menu, still slideshow and chapter point creation. DVD MovieFactory supports a wide selection of CD and DVD burners.

**Vegas Video 4.0 Bundle**

ACEDVio is available in a bundle with a complete, fully-functioning version of Vegas Video 4.0. A Windows-based, integrated realtime video and audio non-linear editor with a comprehensive feature set, Vegas Video 4.0 offers multitrack mixing, compositing, color correction, titling, streaming media encoding and 5.1 multichannel surround sound production.

**Video**
- Multitrack video editing with unlimited tracks
- Powerful video compositing
- 3-wheel primary and secondary color correction filters
- Real-time previewing of effects and processes
- Keyframeable transitions, filters, and track motion
- Support for any aspect ratio (4:3, 16:9, etc)
- Supports multiple file formats, frame rates

**Audio**
- Audio recording, editing, and mixing
- 24-bit/96 kHz audio support
- 5.1 surround mixing tools
- DirectX plug-in effects automation

**Capture/Export**
- DV capture and print-to-tape tools
- Advanced streaming media tools
- Windows Media9 Series support, including surround encoding
- RealVideo 9 support
- VideoCD and data CD burning
- Imports CMX and Sony EDLs

**ACEDVio Ultra Bundle**

This bundle combines ACEDVio with Adobe Premiere Pro, Adobe Audition and Adobe Encore.
- Premiere Pro is the leading editing package. From titles to graphics to fancy transitions to realtime effects, Premiere Pro is a TV studio in a box.
- Audition’s pro-class audio editing and effects tools give you the power to create a sonic canvas as powerful and professional-sounding as your visual canvas.
- Encore brings Adobe’s easy and familiar interface to the world of DVD authoring. From encoding to menus to interactivity, Encore allows you to make impactful, polished DVDs.
Realtime Video Editing with Movie-style Effects

Let’s EDIT is a fast and easy-to-use video editing software with movie-style effects including Old Movie, Blur, Pencil Sketch and color correction. Realtime operation dramatically speeds up the editing process as there is no rendering or waiting while creating movies with sophisticated special effects. Combining real-time video tracks, film-like filter effects and 2D/3D transitions with intuitive and easy-to-use software—Let’s EDIT is the ultimate home editing and DVD creation package.

Let’s EDIT RT and RT+ combine Let’s EDIT software with an OHCI capture card for easy capturing of video from either analog or DV camcorders, as well as realtime analog (RT+ only) and DV output. The card features Canopus’s proprietary DV codec chip to provide the industry’s highest-quality, analog-to-DV conversion with locked audio support for perfect audio and video synchronization.

FEATURES

- Realtime video playback ensures there is no waiting required to view a video project.
- Realtime mixing and playback of two or three video clips
- Realtime titles and graphics layers, each with motion and opacity controls, for effortless creation of subtitles, captions and movie credits
- Realtime movie-style effects can be applied to video in any combination to produce unlimited special effects possibilities
- Realtime 2D and 3D transitions such as 3D Dissolve, Cube Spin and Page Peels with hundreds of presets eliminate time-consuming effects creation
- Voicerecording allows narration to be added in realtime to a video project
- Customizable effects include Chroma Key, Picture-in-Picture and speed control.
- Fast, intuitive, easy-to-use operation using professional editing tools and techniques
- Proprietary Media Technologies provides the highest-quality DV and MPEG video output. User-definable presets make creating the MPEG-1/2 files required for DVDs, SVCDs and VCDs quick and easy.
- Also includes Ulead DVD MovieFactory SE for easy authoring of fully interactive, professional-looking DVDs.

Let’s EDIT RT and Let’s EDIT RT+

Let’s EDIT RT and Let’s EDIT RT+ are PCI analog and DV editing cards compatible with widely used video equipment and hundreds of video editing applications. Together with Let’s EDIT software these cards provide realtime render-free video output to ensure that there is no waiting or rendering to playback, output and complete sophisticated video projects. Otherwise identical, Let’s EDIT RT+ adds analog composite and S-Video and stereo audio output.

- They connect to all widely used analog and DV cameras and decks, including VHS, S-VHS, Hi8, Digital8, DV and DVCAM
- DV and analog video compatibility for editing and DVD authoring applications, including Vegas Video 4.0, Final Cut Pro, Avid Xpress DV, Premiere, Pinnacle Edition, Ulead MediaStudio Pro, and Windows Movie Maker
- Features adjustable brightness, contrast, saturation, hue and sharpness controls on analog video input
- Support PAL and NTSC video formats
- Compatible with Windows and Mac
- Provide the industry’s highest-quality analog-to-DV conversion with locked audio support for perfect audio and video synchronization
- Broad editing software support and video equipment compatibility ensures a long product life and high return on investment
- Let’s EDIT RT+ provides video output to a monitor or television while editing
CANOPUS

EDIUS 2.0

Professional Video Editing Software

Redefining realtime editing, EDIUS 2.0 lets you seamlessly edit, mix and output DV, MPEG-1, MPEG-2 and uncompressed video with true realtime render-free operation. It also redefines video production productivity with realtime multi-format, multi-track editing and timeline output to DVD using a standard desktop or notebook PC.

EDIUS 2.0 streamlines DVD-Video production by allowing editors to work in MPEG-1 or MPEG-2 format for realtime editing, effects compositing, keying, transitions and titles. Canopus’s MPEG codec technology maintains the highest picture quality during every stage of the production process. EDIUS 2.0 also features DVD-Video authoring directly from the timeline, with full chapter point support.

EDIUS 2.0 delivers unprecedented productivity and flexibility by offering unlimited video and audio tracks, unlimited title and graphics layers, the ability to transition between multiple video tracks, voiceover recording, three-point and four-point editing for even greater flexibility, multi-format conversion capabilities and realtime output – all in a fresh graphical user interface that makes it easy to create powerful, professional video and audio content.

While EDIUS 2.0 works with any OHCI-compliant system, it is optimized for Canopus’ DVStorm and DVRaptor RT2 cards, providing additional realtime, render-free operation working with DV, MPEG-1/2 and uncompressed analog video output.

FEATURES

◆ Integrates Canopus’s proprietary Effects Technology to offer 27 realtime video filters, including White/Black Balance, Color Balance, High Quality Blur and Region. Also features a selection of high-quality realtime video keyers, such as Chroma Key and Luma Key, for use in compositing effects, as well as a fully customizable 2D/3D Picture-in-Picture effect. All effects are easily adjustable and may be combined to produce hundreds of customizable effects.

◆ Sophisticated bin folder structure and search capabilities for enhanced clip organization and management, the ability to remap missing or moved clips within a project for easier updating, and enhanced timeline management features, including batch delete. Also supports 32-bit uncompressed video with alpha channel, allowing editors to insert clips made using applications, such as Ulead COOL 3D, directly onto the video track and play back in realtime.

◆ Includes Xplode for EDIUS and EDIUS FX, Canopus’s advanced realtime 2D and 3D video effects engines. These effects packages harness the power of Canopus Effects Technology to create stunning, professional-quality video transitions. With more than 40 transition groups from which to choose, each with customizable options and numerous presets, Xplode for EDIUS and EDIUS FX provide enough power for even the most demanding video editor.

◆ EDIUS is capable of unlimited simultaneous realtime titles and graphics layers. Its motion and opacity controls allow users to stack multiple title layers for greater creativity. Title Motion Filter effects include Blur, Dissolve, Slide, Wipe and Laser. EDIUS also includes Inscriber TitleMotion, for the creation of visually stunning text, graphics and effects. In addition to award-winning CG capabilities, TitleMotion includes professional functions such as crawls, rolls, directional blurs, dissolves and more. Text can be fine-tuned through kerning, leading, slanting, rotating and dynamic sizing. Editors can choose from more than 170 pre-set templates, or create a unique design of their own.

◆ The output quality of a completed video project is just as important as the editing process. EDIUS addresses this by providing fast, high-quality, multiple format export capabilities with technology featured in ProCoder, Canopus’s highly acclaimed conversion software. ProCoder Express - EDIUS Edition lets users rapidly export to MPEG-1, MPEG-2, QuickTime RealVideo and Windows Media formats, in addition to Canopus’s own DV AVI format.

User Interface

Floating window user interface for easy workspace customization (customizable for single and dual monitor setups)

◆ Dual or single preview windows (recorder and player)

◆ Up to 10 user-definable workspace layouts

◆ Customizable toolbar buttons

◆ User-definable effects presets and folders

◆ Re-mapping of missing media clips

◆ Timecode and VU meter overlay display

◆ Timeline window

◆ Bin window

◆ Effect selector window

◆ Information window

◆ Marker window

◆ Realtime waveform/vectorscope window (available while capturing and previewing video)

Titles

◆ Inscriber TitleMotion

◆ Realtime roll /crawl

◆ Animated titles with 3D effects and motion
**Timeline Editing**

Fast and flexible timeline editing for efficient workflow and increased productivity,

- Unlimited video tracks, title and graphics layers, audio tracks
- Audio waveform display
- Transparency track keyframe
- Audio volume / pan keyframe
- Lock / Hide tracks
- Three-point editing
- Four-point editing (fit to fill with realtime speed control)
- Ripple editing
- Slip, slide and roll editing (performed while viewing in/out points)
- Video / audio split editing
- Voiceover recording support
- Realtime audio mixer
- Multiple clip selection and deletion
- Clip division through all tracks
- Transition on same track (all tracks)
- Transition between video tracks
- ShuttleScrub preview window control
- Unlimited undo / redo levels
- Auto save feature

**Effects**

- Simultaneous realtime effects for unlimited creativity
- Realtime video and audio tracks, title and graphics tracks and filters
- Realtime chroma and luma keying
- Realtime 2D and 3D transitions
- Realtime 3D perspective Picture-in-Picture
- Realtime title effects

**Video Clip Bin handling**

- Group selection of media
- Multiple folder support
- Detailed list folder view
- Media clip search options
- Clip sorting functions: File name, Clip name, File size, Date

**Video Input and Output**

- Full DV deck control capture
- Batch capture and direct-to-timeline capture
- Automatic file division capture at date and timecode break
- 32-bit uncompressed video import (for video clips with alpha channel)
- MPEG video capture support from Canopus MPEGPRO series and Amber
- Realtime DV output from timeline
- Embedded timecode on exported video
- TGA file sequence export
- MPEG-1 and MPEG-2, Windows Media, RealVideo and QuickTime export
- Direct-to-DVD timeline export
- Hardware MPEG encoder support for DVStorm

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**DVRaptor RT2Max**

Render-Free Real-time DV Editing for EDIUS 2.0 or Adobe Premier Pro

A total solution for realtime multi-track DV editing, special effects, DVD authoring and Web video publishing, the DVRaptor RT2 Max sets a new standard in performance and price providing entry to Canopus’s legendary realtime DV editing and special effects capabilities. With DVRaptor RT2 Max there is no rendering and no waiting while editing in with EDIUS 2.0 or Adobe Premier Pro.

- Can process up to three video layers and 30+ moving title and graphics layers in realtime from Premiere Pro timeline. The internal video keying process is done in YUV 4:2:2, as opposed to the RGB, resulting in superior output quality and excellent keying results.
- Includes the industry’s best DV chroma keying and realtime color correction with vectorscope and waveform monitoring. Also features a high-quality realtime speed controller, which provides realtime speed adjustments of any value ranging from 1 to +/- 1,000%.
- Powerful, customizable realtime video filters can be combined to provide endless special effect possibilities. No limit to the number of filters that can be combined and blended.
- Xplode Basics adds 2D, 3D and alpha video transition effects with an easy-to-use interface and over 160 different effects presets.
DVStorm2 Pro is the professional’s video production backbone of choice. Superior hardware and software integration allows editors to seamlessly work with leading editing, composting, effects and transcoding applications while benefiting from DVStorm2 Pro’s highest-quality analog and digital video processing. Combining Canopus’s proprietary technologies, DVStorm2 Pro delivers the industry’s highest-quality DV and MPEG, breakthrough realtime performance and a professional, stable studio environment.

Bundled with EDIUS LE as well as Adobe Premier PRO (certain packages), DVStorm2 Pro’s Premier Pro plug-in lets you preview and output both native Premiere Pro effects and Canopus effects simultaneously in realtime. When using Premiere Pro, DVStorm2 Pro delivers five simultaneous realtime video streams and unlimited title and graphics layers. DVStorm2 Pro also provides unmatched realtime multi-track editing, an ample collection of realtime filters, 3D effects and realtime, render-free DV output. It also provides realtime color correction with waveform/vectorscope, variable speed control, the industry’s leading DV chroma key, auto white balance, region filter, voiceover recording, and more.

Since MPEG capabilities are vital to today’s editor, DVStorm2 Pro includes StormEncoder, Canopus’s realtime MPEG hardware-encoding module, as well as a frame-accurate MPEG editing tool. StormEncoder lets you encode MPEG-1/2 files in realtime directly from DV and analog sources using the MediaCruise control software for effortless capture and encoding.

**Features**
- Unlimited simultaneous realtime video tracks
- Unlimited simultaneous realtime title and graphic layers
- 30 realtime video filters.
- 7 realtime audio filters
- Perspective / 3D picture-in-picture
- Simultaneous unrestricted combinations for all of the above
- Realtime DV and analog output
- 28 realtime 2D and 3D transition groups with hundreds of presets
- Realtime render-free DV and analog output
- Adobe Premiere Pro plug-in
- Component video output
- Supports PAL and NTSC
- Supports 16:9 and 4:3 aspect ratios
- Supports DVCAM equipment
- Full YUV 4:2:2 editing and processing

**Canopus Proprietary Technology**
DVStorm2 Pro is the world’s most capable realtime multi-track editing system. Combining Canopus proprietary technologies, DVStorm2 Pro delivers the industry’s highest-quality DV and MPEG, breakthrough realtime performance and a professional, stable studio environment. Unlike any other realtime editing system, DVStorm2 Pro is capable of performing unlimited simultaneous realtime video filters, titles and graphics layers. This power and expandability is made possible by Canopus’s proprietary scalable video architecture. Pioneered by Canopus in 1998, Scalable Video Technology ensures that DVStorm2 Pro’s realtime editing capabilities expand as CPU power increases. Scalability ensures a greater return on investment and a long product life. To date, no other editing system offers such scalability.

**Storm Encoder**
DVStorm2 Pro+’s unique hardware MPEG-1, MPEG-2 encoder can either capture MPEG from a DV or analog source or encode MPEG in realtime from the timeline. Presets for VCD, SVCD and DVD ensure fast high-quality encoding, ready for authoring. DVStorm2 Pro also includes a component video output connector. Component video output provides connectivity to Betacam decks and broadcast monitors.

**Realtime Chroma and Luma Keying**
Chroma and luma keying allows editors to make part of their video transparent. Keyed clips can be placed over other clips to achieve effects, such as placing a person in front of any background video. Canopus processes realtime effects in the YUV color space with 4:2:2 sampling. The result is a much cleaner Chroma and Luma Key without the compression artifacting around the edges normally associated with a Key that works in the RGB color space.
30 Advanced Realtime Video Filters

DVStorm2 Pro features powerful realtime video filters unique to Canopus. All realtime filters are customizable and can be combined to provide endless special effects. In addition, there are no limits to the number of video filters that can be combined and blended. Canopus Scalable Technology allows stacking of video filters onto all video tracks, all in realtime.

• Anti-flicker  • Blend Effects  • Blur
• Chroma Key  • Chrominance
• Color Correction  • Combine Effects
• Emboss  • High Quality Blur
• Loop Slide  • Luminance Key
• Matrix  • Mirror
• Monochromatic  • Mosaic
• Motion Blur  • Noise  • Old Movie
• Pencil Sketch  • Picture-in-Picture
• Raster Scroll  • Region  • Sharp
• Soft Focus  • Solid Color
• Variable Speed Control (±10,000%)
• Strobe  • Tunnel Vision
• Variable Speed Control

The White Balance filter is ideal for adjusting all color values within the same range to correct problems with improperly shot footage (typically brightness issues). This filter features a ‘pick’ tool to allow automatic white balance adjustment relative to a selected color value. As an example, the original shot was filmed at dusk resulting in footage with a blue tint. By selecting an object in the shot that would normally appear white in color with the pick tool, the footage is automatically adjusted to correct the color information.

Realtime Title Motion Filter

DVStorm2 Pro is capable of unlimited simultaneous realtime title and graphics layers. Create realtime multi-layered composites with dozens of title and graphics layers with motion and opacity controls to allow each layer to behave differently. Title Motion Filter effects include Blur, Dissolve, Slide, Wipe and Laser.

Realtime 3D Picture-in-Picture/Pan and Zoom

Powerful 3D Picture-in-Picture transition controls include.

• Interactive preview tools for position, orientation, scale and shadow configuration.
• Full key frame timeline control for position, orientation, perspective, scale and transparency.
• All key frame groups can be interpolated by: Constant, Linear or Spline.
• Crop and Border controls allow separate crop control for each border as well as color and soft edge controls.
• Extremely high quality anti-aliasing for smooth edges and clear representation of 3D manipulated image borders.
• Easy to use presets provide perfect results without time consuming adjustment.
• User friendly configuration controls allow quick configuration of complex transitions without worrying about start and end points.

Xplode for DVStorm and 3DRT-II

Realtime 2D and 3D Transitions

DVStorm2 Pro includes Xplode for DVStorm and 3DRT-II, advanced 3D video effect engines. Xplode for DVStorm and 3DRT-II feature proprietary Canopus effects technology and provide the power to create stunning and professional quality video transitions. With 28 transition groups hundreds of presets and endless customizable options Xplode for Storm/3DRT-II provide sophisticated power for the demanding video editor. Xplode plugs-in to Premier and EDIUS to execute multiple complex transitions and effects in realtime.

Create Completely Original Effects:

• Adjust the rate of motion at any point of a transition
• Save keyframed effects into a preset list
• Configurable lighting allows editors to adjust where a light source is positioned, what color the light is, and the degree of light intensity.
• Xplode breaks the barrier of static shadows by providing a very natural, realistic and smooth look to projected shadows as they are cast in reference to the direction of the incoming light source.
• Import 3D objects from Lightwave and 3D Studio Max. Xplode DVStorm lets users create their own customized 3D effects. Further customization is possible through the support of AVI, BMP, GIF, Windows Media and JPEG formats.

Transition Categories (with many presets)

• Xplode 3D Standard – Ball Bounce, Billboard, Confetti, Conveyor, Cube Tube, DoubleDoor, Fly Away, Page Peel, Ripple, Twist, Wave, Zoom.
• Alpha Vapor Dissolves – Clouds, Smoke and Water.
• 3D Object Wipes (Video B onto Video A)– Airliner, Boom Box, Butterflies, Camera, Card, Cell Phone, Dice, F16, Golf Ball, Heart, Helicopter, Semi Truck, Sword.
• Over 60 Alpha wipes including: Beam Me Up, Breaking Wave, Checker, Circles, Curtains, Diamonds, Hearts Galore, Jaws, Layered Roll On, Mosaic Ripple, Oil Slick, Quad Spots, Radar, Sandblast, Spiral Burst, Wash Away 3D Dissolve, Blinds, Cube.
Canopus Realtime Tools

DVStorm2 Pro incorporates an impressive array of professional tools to assist editors in making the best creative decisions with their projects. These include a waveform & vectorscope monitor, realtime audio filters and realtime video out plug-ins for After Effects, Photoshop, and NewTek LightWave 3D.

- Process and maintain the video signal quality necessary for broadcast using Canopus’ waveform and vectorscope for accurate color information. The waveform and vectorscope monitors are available for the Color Correction and White Balance Filters. The White Balance Filter alters the balance of color using the white or black ends of the color spectrum.
- Canopus realtime audio filters provide tools such as Graphic Equalizer, Delay, High Pass Filter, Tone Controller and mor.

Bundled Software

Includes Sonic Foundry ACID Style, a powerful software and loops package that gives you everything you need to begin producing royalty-free music.

- Choose from over 600 music loops
- Create tracks using an easy-to-use “pick, paint, and play” style interface
- Use unlimited tracks of audio
- Fly in sound effects, samples, and rhythmic effects
- Save your mix in many formats, including MP3, RealAudio, Windows Media, and WAV

Includes EDIUS LE. Packed with many of the features of EDIUS 2.0, EDIUS LE provides DVStorm2 Pro with true realtime editing and visual effects power. Experience the intuitive, high-productivity workflow that is revolutionizing video production.

- EDIUS LE includes ProCoder LE for professional multi-format encoding capabilities including MPEG-1, MPEG-2, Windows Media, Quicktime and RealVideo formats.
- Bundled Ulead COOL 3D Production Studio SE lets you design and animate custom 3D titles for import into video projects. Choose from pre-made shapes and styles or create titles from scratch

MPEG Tools and DVD Authoring

DVStorm2 Pro incorporates Canopus’s Proprietary Media Technologies for the highest-quality MPEG encoding at the fastest speed. DVStorm2 Pro includes MPEG cutting and recompressing utilities for editing files that have already been encoded to MPEG.

MPEGcraft LE:

- Fast, high-quality re-encoding
- Supports MPEG-1 and MPEG-2 system streams
- Frame-accurate navigation for more precise cutting, including mouse wheel timeline scrubbing
- GOP-based editing to avoid re-encoding while cutting
- Hardware encoding support for DVStorm2 Pro’s hardware MPEG encoder
- to MPEG Tool provides additional MPEG encoding to pre-existing video files including:
  - Multiplexing and De-multiplexing of MPEG files
  - Re-encoding of MPEG files including upscaling of MPEG-1 to MPEG-2
  - DV AVI to MPEG encoding with In/Out configurability

MediaCruise

Capture and playback MPEG files without the guesswork of when to start and stop encoding. MediaCruise provides high-quality on-screen display of live analog video input, MPEG playback, easy creation of MPEG play lists and quick control over video overlay options such as hue, brightness and saturation. MediaCruise directly supports DVStorm2 Pro’s hardware MPEG encoder, which provides direct capture of either DV or analog video into MPEG-1/2 files, ready for authoring. Hardware support also provides the ability to preview MPEG files out to a monitor.

DVStorm2 Pro—Available in three versions

- DVStorm2 Pro Ultra Real-Time DV Editing Solution — Same as above plus it adds Adobe Premiere Pro, Adobe Encore DVD, Adobe Audition
- DVStorm2 Pro+ Real-Time DV Editing Solution — Same as above plus it adds Adobe After Effects 6.0 Standard,
**The Ultimate Format Converter**

Whether encoding MPEG video for DVD production, producing Windows Media for streaming or transcoding between NTSC and PAL, ProCoder 2.0 makes video format conversion quick and easy. Encode a single source to multiple targets simultaneously, run multiple conversion jobs back-to-back in batch mode, or use ProCoder 2.0’s drag-and-drop preset icons to start conversion with a single click.

ProCoder 2.0 features support for many popular video codecs out of the box, including Canopus’ high-quality, high-speed, proprietary DV and MPEG-2 codecs, and also supports additional codecs already installed on the system.

- Simplifies your workflow, ProCoder 2.0’s powerful manipulation tools get your sources ready for conversion.
  - Stitching allows you to link multiple sources of various formats together to create a single seamless result, preventing you from having to combine the sources in an editor.
  - Source filters provide useful enhancement tools, such as bitmap overlay, cropping and volume adjustment, to ensure perfect input before encoding, while target filters give you the flexibility to make specific adjustments for particular output.
- With Scalable Technology architecture, conversion speed increases with the power of your system. In many cases, ProCoder can transcode files faster than realtime.
- Canopus’ DV codec provides the best picture quality preservation at the highest speed, reducing the impact of multiple recompressions. Canopus’s MPEG-2 codec employs two-pass variable bitrate (VBR) compression and advanced motion-estimation algorithms to provide the best possible encoded result.
- Encode a single source to multiple targets simultaneously, run multiple conversion jobs back-to-back in batch mode, or use drag-and-drop preset icons to start conversion with a single click. ProCoder provides the streamlined workflow to convert once and create all the output formats you need.

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**Xplode Professional 4.0**

Xplode Professional 4.0 is an advanced 2D & 3D video effects package providing editors with powerful creativity tools to produce stunning quality video content. With hundreds of customizable effects, transitions and an intuitive interface, creating custom effects is a snap.

- With a selection of over 100 presets, Composer Effects gives editors detailed keyframing and advanced transition customization capabilities to create stunning 2D and 3D effects to their liking. Several Composer Effects can also be combined with an Alpha Mask or be applied on transparent graphics to provide even more customization for PIP and text effects.
- Accessed from within Canopus editing packages or Adobe Premier, Transition Launcher is a fast, efficient way of navigating through over 900 different effects within Xplode. Features one-click previews, drop-down “Explorer” style interface and the ability to store favorite transitions separately.
- “SmartConfig” intuitive interface dramatically reduces the learning curve by allowing users to easily and quickly adjust transitions to their specific needs. SmartConfig panels include options for progress keyframing, positioning, lighting and shadows and now also basic playback and scrubbing controls for finer tuning of effects.
- Enhanced rendering engine provides high quality output, including superior anti-aliasing. Xplode Professional 4.0 is also engineered to take advantage of Direct3D compatible Video Graphics Accelerators for faster, hardware-based performance.
- Global Configuration utility quickly adjusts important functions such as overscan area handling and 3D rendering and have the settings instantly apply to all Xplode effects. Accessed either directly or from any effect configuration panel, Global Configuration also provides users with four different quality settings to improve preview performance on older machines.

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**Effects**

- Xplode 3D Object Transition Group (SmartConfig Interface) 4 Groups: Props, Pull, Transition, Wipe
- Xplode Alpha Transition Group (SmartConfig Interface) 7 Groups: Alpha Animated, Color Map, Custom Map Organic Dissolves, Shape Wipes, Vapor Dissolves, Wipes
- Xplode Composer Effects (Composer Interface) 6 Groups: 3D Object, Advanced Alpha Map, Box, Morphing Shapes, Multiple Objects, Picture Frame
- Xplode Standard Transition Group (SmartConfig Interface) 43 Groups: Around We Go, Ball Bounce, Blend, Blocks, Confetti, Conveyor, Cube Spin, Cube Tube, Curtain, Double Door, Fly Away Flying Ball, Mirror Twist, Mosaic, Page Peel, Ripple, Rolling Cube, Shuffle, Single Door, Twist and much more!
MATROX

RT.X10 SUITE

Realtime Video Editing and DVD Authoring System

The RT.X10 Suite is a video editing hardware and software bundle designed for video enthusiasts who want professional results—fast. Consisting of a state-of-the-art video capture and realtime 3D effects card, an audio/video breakout cable, plus the full versions of Adobe Premiere Pro, Encore DVD, and Audition, you can easily create home movies, business videos, and school projects that you can be proud of. Realtime color correction makes all your shots picture perfect. Realtime broadcast-quality titles and customizable 3D effects such as page curls, organic wipes, spheres, cubes, particles, 3D tiles and picture-in-picture give your projects a high-end TV look. Realtime super-smooth fast and slow motion lets you create dramatic or humorous effects. Multi-track audio mixing lets you easily add soundtracks and music. When you’re finished editing, quickly deliver your finished videos on tape, VCD, SVCD, DVD, and the web.

FEATURES

Capture Faster

- Realtime SinglePass DV scan and capture cuts capture time in half and saves wear and tear on tapes and camcorders
- High-quality capture from VHS, S-VHS, 8mm and Hi-8
- Single-frame capture from DV tape or a live source for easy photomontage creation
- Video capture using OHCI and Video-for-Windows compliant applications

Realtime Editing

- Superior realtime video editing with Adobe Premiere Pro
- Full-quality video output on a TV, while editing
- Realtime color correction with automatic white balance, for picture perfect shots
- Realtime, customizable Matrox Flex 3D effects such as page curls, spheres, cubes, picture-in-picture, etc.
- Realtime super-smooth field-blended fast and slow motion
- Professional audio editing with Adobe Audition

Versatile Delivery Tools

- Realtime recording to VHS, S-VHS, 8mm and Hi-8 tape
- Matrox TurboDV export engine for fast export to DV tape
- Professional DVD authoring with Adobe Encore DVD
- Hardware-accelerated simultaneous batch encoding of DVD, SVCD, VCD, and web formats

The Power of X

With today's GHz CPUs, software can be made to do editing operations in realtime, using just CPU power alone. However, they still are not powerful enough to allow software-based realtime engines to perform all realtime operations. Compromises are necessary. Common trade-offs include working at half- or quarter-screen preview resolution, reducing the frame rate, and turning off processing-intensive filtering and anti-aliasing. When you’re done with your last edit, you must spend the time to render your entire project to see the actual result.

“The Power of X” takes full advantage of your CPU and harnesses the power of dedicated hardware to give you the extra edge to enhance your editing. With RT.X10 Suite, you edit like a pro today, and as computers get faster you’ll benefit from the scalable power of the CPU, but still be a step ahead with the extra boost you get from fully-optimized hardware.

The Power of X as implemented in Matrox RT.X10 Suite exploits the full power of the...

CPU for:

- Ultra-fast DV decoding without quality compromises
- Smooth slow and fast motion control
- Color correction

Dedicated hardware for:

- Analog input and output
- Compositing and true 3D geometric effects
- High-quality bi-cubic and anisotropic effects filtering

ONE HOUR FREE PARKING
AT 349 W. 34th STREET (with purchase of $100 or more)
MATROX

RT.X10 SUITE

Complete Software Bundle

The RT.X10 Suite software bundle includes the full versions of Adobe Premiere Pro, Adobe Encore DVD, Adobe Audition, plus a variety of tools to make your work faster and easier.

◆ Matrox MediaTools is a frame-accurate capture and logging application that lets you efficiently manage your DV video footage and capture still images.

◆ Matrox MediaExport provides hardware-accelerated simultaneous batch encoding of Windows Media/RealMedia streaming formats and MPEG-1/MPEG-2 multimedia formats with multiple resolutions, bit rates, and frame rates.

◆ Matrox Video for Windows codec lets you read and write RT.X10 Suite-compatible DV files using popular digital media applications such as After Effects, Discreet Combustion, Discreet 3ds max, and LightWave, with or without the RT.X10 Suite hardware installed in your system.

◆ WYSIWYG video output support for standard DirectShow-based applications. As you work with standard DirectShow-based applications, you get instant output on your NTSC or PAL video monitor. For example, you can preview video files, such as MPEG, DivX and AVI, on your broadcast monitor using Windows Media Player. Note that WMV and RealMedia files are not compatible.

◆ Ligos GoMotion technology, incorporated into the Matrox MediaExport plug-in for Matrox RT.X10 Suite, lets you perform high-quality MPEG-1 and MPEG-2 compression. MPEG-1 is ideal for VCD and CD projects since it allows you to put up to one hour of video on a CD and can be exported from Adobe Premiere Pro at faster-than-realtime speeds. MPEG-2 is used for SVCD and DVD creation.

◆ Pixélan Software Video SpiceRack Lite is included with Matrox RT.X10 Suite, providing over 150 realtime organic transition patterns.

If you’re a serious professional concerned about getting the most from the Adobe’s digital video applications, you need Matrox RT.X100 Xtreme Pro. Premiere Pro becomes a full-quality, full-resolution, no-compromise powerhouse with RT.X100 Xtreme Pro. For not much more than the price of the software alone, your editing experience is greatly improved.

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<tbody>
<tr>
<td><strong>Video 1/O</strong></td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Analog Y/C and composite I/O</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>DV-1394 I/O</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td><strong>Codecs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capture</td>
<td>DV</td>
<td>DV + MPEG-2 IBP for DVD</td>
</tr>
<tr>
<td>Editing formats</td>
<td>DV</td>
<td>DV</td>
</tr>
<tr>
<td>Interleaved audio/video file support</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Realtime output</td>
<td>Analog + cutlist-only DV</td>
<td>Analog + DV + MPEG-2 IBP for DVD authoring</td>
</tr>
<tr>
<td>Frame-accurate insert edit</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td><strong>Realtime layers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video</td>
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<td>2</td>
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<tr>
<td>Graphics</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Adobe Premiere Pro support</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title Designer support and preview to NTSC/PAL video monitor</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Audio mixer support</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>JKL keyboard support</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Matrox effects keyframeability</td>
<td>Limited</td>
<td>Extensive</td>
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<tr>
<td>Scrub preview to NTSC/PAL monitor</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<td><strong>Realtime Matrox Flex 3D effects</strong></td>
<td></td>
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<tr>
<td>Cross dissolve</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Simultaneous 3D DVEs</td>
<td>1</td>
<td>✔</td>
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<tr>
<td>Page curl</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Native Adobe transitions (60), Motion effect, and Opacity</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Organic wipes, 3D tiles, Particle effect</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Distortions, RGB colorization, Mask DVE</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Blur, Ripple, Lens flare, Mesh warp, Twirl</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Cubes, Sphere</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Mosaic, Emboss, Pan &amp; Scan Tool</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Move &amp; Scale (simultaneous 2D DVEs)</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td>Soft Focus, Old movie, Corner pin</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
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<tr>
<td><strong>Realtime host-based effects</strong></td>
<td></td>
<td></td>
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<tr>
<td>Color correction</td>
<td>7-parameters</td>
<td>18-parameters + 8</td>
</tr>
<tr>
<td>Professional vectorscope/waveform monitors</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Speed control method</td>
<td>Blended-field</td>
<td>Blended-field</td>
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<tr>
<td>Alternate speed control method</td>
<td>Repeat-field</td>
<td>Repeat-field</td>
</tr>
<tr>
<td>Chroma and luma keying</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Workflow</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XtremePrev for editing many layers and effects without rendering</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

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Software Video Editor

The ultimate consumer software video editor, Studio 9 gives you every tool you need to easily capture video to your computer, edit it, add titles, music, narration and special effects and then output a finished movie back to videotape, DVD and the web. Simply drag-and-drop your captured video footage onto the editing timeline and assemble a movie in minutes. Take your production to the next level by adding voiceover narration, professional-caliber titles, and background music. You can also import CD, MP3 and WAV audio files into your timeline, and export still frames that can be printed out on a color printer.

Then, when you are finished editing, you can author and burn discs with your CD or DVD burner that play in most set-top DVD players. Create multiple linked menus, motion menus and motion buttons. Studio 9 also features native 16x9 (widescreen) support, 3rd party plug-in support, automated editing, and audio and video correction tools. Studio is more than the easiest consumer video editor to use; it’s also the most powerful.

Advanced Video Editing

◆ Capture and edit widescreen (16:9) or standard (4:3) video
◆ Capture and edit footage from your DV Digital8 or MicroMV digital camcorder
◆ Capture and edit footage from your Hi8 or S-VHS analog camcorder
◆ Capture and edit DVD quality MPEG video from your DV or Digital8 camcorder
◆ Import and edit MPEG-1 and MPEG-2 files
◆ Easy drag-and-drop editing lets you assemble your masterpiece in minutes
◆ SmartCapture saves time and effort by instantly detecting where each scene starts and stops
◆ Advanced timeline features for frame-by-frame editing
◆ Preview window shows your edits immediately
◆ Automatic color correction to enhance poorly lit footage and brighten dull video.

Transitions and Video Effects

◆ More than 100 scene transitions and Hollywood FX 3D transitions
◆ Professional title effects with Pinnacle TitleDeko, including drop shadows and neon glows
◆ Fast/slow motion effects
◆ Special video effects and image correction
◆ Video Enhancement
◆ Effect fade in fade out
◆ Fix poorly shot footage using Studio’s audio and video cleaning and restoration tools:
  ◆ Image Stabilization to fix those shaky handheld shots
  ◆ Analog cleaning lets you restore old tapes
  ◆ Noise Reduction tools for removal of unwanted background noise such as annoying wind noise, hiss, and camcorder whine
  ◆ Image Filters let you create exciting video effects, such as Old Time Movie, Ripples, Lens Flares and more.

Audio Features and Effects

◆ Import background music as MP3 files or rip directly from an audio CD
◆ Record your own voiceover narration
◆ Create custom musical soundtracks precisely matched to the duration of your movie
◆ Stereo and surround sound panning
◆ Graphic EQ
◆ Effect fade in fade out
◆ Support for RTFx video plug-ins and VST audio plug-ins
◆ Audio Filters let you apply professional-level effects such as Reverb, Graphic EQ and normalize.

Advanced Video Publishing

◆ Share your movies on videotape, DVD, Video CD, and the Internet
◆ Burn a video CD or DVD that you can play on your living room DVD player
◆ Output widescreen (16:9) or standard (4:3) video
◆ Studio 9 can save movies as AVI, MPEG-1, MPEG-2, RealVideo, and Windows Media Format

With all of these features and more, it’s easy to see why Studio version 9 software is the best solution for all video enthusiasts who want to edit and output high-quality movies back to videotape DVD and the Internet. For those who need video capture or output hardware Studio version 9 is available with a variety of high quality hardware solutions- see next page.
Step One: Capture
After you’ve installed Studio, attach your camcorder to your video capture device, and capture the video clips you want to use in your project to your computer’s hard drive.

Step Two: Edit
Import your video clips, then drag-and-drop them onto the editing timeline. From there, trim the clips, add a 2D or 3D transition and title or two, and sync the whole project up with your favorite music (Studio supports CD, MP3, and WAV audio). Studio even includes SmartSound, which automatically generates music to fit entire scenes in your movie. If you want to get really creative, try out a few of the software’s built-in special effects features.

Use SmartMovie, an automatic movie creator, to make the process of moviemaking even easier. Simply select raw video footage, add a favorite song for a soundtrack, and choose an editing style for your finished movie. With one click, Studio creates a professional-looking movie-complete with titles, transitions and special effects-and synchronizes it to the beat and duration of the music.

Step Three: Output
Add menus and chapter breaks and burn a disc that can play in your living room DVD player. Studio saves your finished movie in any number of formats, including AVI, MPEG-1, MPEG-2, RealVideo, or Windows Media Format. Use RealVideo and Windows Media Format to export your video to the web, and use MPEG-1 and MPEG-2 to export your video onto VCD, SVCD, or DVD.

Studio MovieBox DV: This package includes Studio 9 software and an external box for converting video from analog camcorders to a digital signal that can be read through your computer’s Firewire (IEEE1394) port. Incorporating an F.A. Porsche industrial design, MovieBox DV is equipped with composite, S-Video and DV inputs/outputs that lets you capture your movies in either MPEG or DV quality from any consumer videotape to your PC or Mac (Studio 9 is not Mac compatible and doesn’t include video editing software for Mac) via its FireWire port.

Studio AV/DV: This package includes Studio 9 software and an internal analog and digital video card that lets you capture your movies from any consumer videotape to your PC. The included PCI capture card is equipped with analog and digital I/O allowing you to capture and edit footage from your DV, Digital8 and MicroMV digital camcorders, or Hi8, S-VHS analog camcorders. Unique circuitry incorporated in Pinnacle’s custom chip ensures the highest possible video image quality.

Studio MovieBox USB: This package includes Studio 9 software and an external box for converting video from analog camcorders to a digital signal that can be read through your computer’s USB port. Incorporating an F.A. Porsche industrial design, the it connects to your computer’s USB 1 or USB 2 port and captures video in DVD quality MPEG-2 format. The box also includes composite and S-Video input and output.

Studio AV/DV Deluxe: Like Studio AV/DV, this package includes Studio version 9 software, and a video capture card that supports both analog and digital camcorders, but it also offers a professional breakout box and Hollywood FX Plus software. The ultimate internal video editing solution, the professional breakout box allows you to easily attach analog or digital video sources, while the Hollywood FX Plus provides hundreds of additional 2D and 3D transitions and video effects.
LIQUID EDITION

Powerful Realtime Video Editing with Integrated DVD Authoring

Liquid Edition is the most powerful and comprehensive DV editing solution available today. It combines the professional expertise and broadcast heritage of the Pinnacle Liquid line with Edition’s plug-and-play power and ease-of-use. On top of providing the strong editing features that professionals demand and require, Liquid Edition delivers stellar tools for impressive real-time compositing, effects and DVD authoring, all from the same intuitive interface.

Liquid Edition is the first professional non-linear video editing application to utilize both your computer’s CPU and GPU (Graphics Processor Unit), to take full advantage of every aspect of your system. Effects such as chroma and luma key, fast/slow motion, and color correction are performed by the system CPU, while advanced 3D digital effects and sophisticated video texture-mapping effects are generated with the GPU.

The result is incredible realtime performance without the need for a special graphics accelerator. This means that however your PC is configured, Liquid Edition will provide the best performance you can get.

Real-Time Editing

◆ Up to 10 streams of real-time DV and graphics previewing gives you the freedom to explore dozens of creative options while meeting tight deadlines
◆ Uses the throughput of the AGP bus which offers 16x more bandwidth than competitive PCI-based solutions, to offer unequalled bandwidth for real-time effects on multiple video and graphic streams.
◆ Liquid Edition harnesses the full potential of your computer by driving real-time effects from both your CPU and GPU.
◆ Protect your future with a completely scalable architecture. The real-time power of Liquid Edition expands with faster CPUs and more powerful graphics cards.
◆ Pinnacle Liquid Edition offers an incredible amount of real-time compositing and effects to bolster, not hamper your creative workflow. The real-time effects arsenal includes:
  2D DVEs, true 3D DVEs, Dissolves, Wipes, Chroma/Luma Key, Spotlights, Lens Flares, Blurs, Particles and Hollywood FX effects and transitions.

World Class Color Correction

◆ Liquid Edition’s unique CX Color Correction offers a wealth of tools for top quality professional primary and secondary color correction including, but not limited to, one and three point tone, grey and color balance, primary and secondary selective color correction and a full set of color scopes.
◆ Besides Histogram and Lighting, allows you to visualize and edit Vector Scope Waveform and the 3D-Cube display.
◆ Has a workflow optimized and clearly arranged interface (easily view the video clip, the scope and color settings simultaneously) that offers all of the necessary controls with just one mouse click.
◆ Offers a fully automated Hue and Histogram function to match the color of a reference to multiple clips in just one easy step.
◆ Gives you an unlimited control of selective color correction, including precise settings for range and softness.

CX Color Correction is the most advanced secondary color corrector in its class. The four major segments - primary color, six vector color, selective color, and legalizer provide comprehensive and instant control of all relevant settings.
Over 1000 Real-Time Effects

3D Effects
- 3D DVE
- Page Curl
- Page Peel
- Water Drop, Water Wave
- Cylinder
- Particle
- Magnify, Replicate
- Accordion, Bevel Crystal, Cracked Slab
- Falling Crystals, Curtain,
- Cylinder, Explosion, Reflection

Motion Effects
- 2D DVE
- Invert
- Crop
- Roll/Crawl
- MultiShape Crop, MultiShape PIP
- MultiShape SpotLight

Transitions
- 2D Editor
- 3D Editor
- Cross Dissolve
- Gradient Wipe with Border

Color Correction
- Base Color Correction
- Brightness and Contrast
- Black-and-White
- Stained Glass

Keyers
- ChromaKeyerYUV
- Luma Keyer

Special Effects
- Lens Flare
- Blur
- Spotlight
- Posterize

Workflow Optimized User Interface

Liquid Edition’s user interface is built and optimized for a professional editing environment. Not only does this make an editor’s life easier, it gives the new user a quicker learning curve. Uses the same completely customizable user interface and programmable shortcuts found in the Liquid blue, silver and chrome solutions.

- All menus are context sensitive. This allows for the minimum number of mouse movements and need for structured menus.
- Optimized for use with one or two monitors. A single mouse click can switch between multiple optimized views.
- Has Windows style desktop storyboarding with the complete freedom to position and arrange clips any way you want.
- Offers an intuitive way to set your keyboard shortcuts by just dragging and dropping the appropriate command on the desired key.

High Performance

- Dynamic Slow Motion provides exceptionally fine control over the speed of clips and optimizes the ability to make adjustments to speed over time.
- Professionals will appreciate the greater responsiveness and improved accuracy of deck and device control when using the built-in RS-422 machine control
- In addition to DV and DVCAM, it supports DVCPRO 25 as a native codec.
- Pinnacle offers a broadcast quality Jog/Shuttle controller for fine control of the tape machines and editing in the timeline.
- Control sound levels in Liquid Edition’s audio editor via external faders attached by Midi.
- With Sony Cliplink support, you can save time and resources by directly importing all Cliplink cut points and picons on capture. With Sony DSR-DU1 support you can load media without capturing therefore streamlining your workflow
- Wide range of software-based effects that render while you edit with sub-pixel precision.

Conveniences

- With Liquid Edition, you can continue to drive your creativity while you are rendering high quality DV output in the background. This dramatically speeds up the output process, because you can continue to edit while you are rendering in the background.
- Why take the risk of losing work when with Liquid Edition’s unique InstantSave technology, every step you make is immediately and automatically protected. You can even drop back to an earlier version of your project by using the Undo History palette.
- Liquid Edition adapts to your workflow unlike other editing programs that require you to adapt to their constrained workflow. User interface commands and keyboard shortcuts can be customized to individual needs and can be stored on a per user basis.
- Based on time code or video content, Liquid Edition’s Automatic Scene Detection divides up the scenes into individual clips to let editors focus on creating rather than sorting through their footage.
- Liquid Edition supports a scalable UI (User Interface) for up to 1600 x 1200 resolution and full size Source and Preview Windows to accurately check your work.

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Liquid Edition

**Project Sharing**
- Edit directly off of shared storage. Liquid Edition’s intelligent media management is network savvy and lets multiple editors view and access the same media. This allows production teams to work more efficiently by having the option to work independently and/or together on each and every aspect of a project.
- Liquid Edition allows you to map your networked drives so that multiple users can view and access the same media. Liquid is based on open networking standards and works with 100-baseT, Gigabit Ethernet and Fibre Channel storage solutions. Double the performance of your network by adding a Pinnacle Palladium network storage solution.
- Liquid Edition’s Palladium option provides native support for Media Access Server (MAS) protocol, a video over Ethernet protocol that increases bandwidth performance and reliability of Ethernet connections for video when used with Pinnacle’s Palladium network storage solutions.
- Liquid Edition offers options such as XSend to Pinnacle Thunder and DekoCast, as well as communication with broadcast servers, automation an asset management systems. These interfaces provide for direct exchange of media and metadata for workflow integration.
- Furthermore, XSend to Macromedia Flash Video Files lets you send clips and projects directly to Macromedia Flash MX for applying enhancements targeted for web distribution.
- Liquid Edition’s ability to import and export ALE files as well as export OMF files provides an open exchange of clip, bin and project metadata with other editing systems, audio post production suites and asset management databases.
- Take your project on the road with your laptop. Liquid Edition fully supports editing with real-time effects on a laptop.
- Share Liquid Edition projects across the entire Liquid product line including Liquid blue, Liquid chrome and Liquid silver.
- Produce once and distribute everywhere (e.g. tape for broadcast, DVD, and the Web) in the appropriate formats.

**Direct to DVD — Integrated Timeline-based DVD Authoring**
Historically, DVD creation has been a difficult and time-consuming proposition. Liquid Edition changes this by incorporating DVD authoring directly into the edit timeline. By eliminating the frustrating process of exporting and importing files to a separate authoring application, Liquid Edition makes the process of DVD authoring easier and more streamlined.
- Why waste time and energy switching between a completely different application with an unknown interface when with Liquid Edition you can author and burn DVD/VCD/SVCDs directly from the timeline.
- Using the familiar editing tools of Liquid Edition, editors can create sophisticated DVD menu structures, motion menus and motion buttons.
- Once finalized, DVDs can be both simulated and burned directly from the Liquid Edition interface.
- Includes DVD Wizard with over 40 easy to use templates to expedite authoring and delivery of professional looking DVD’s.
- Direct export to elementary or program DVD streams as well as Super Video CD and Video CD.

**Liquid Edition Includes**

- Liquid Edition v5.5 Software
- Pinnacle Hollywood FX Plus
- 1000+ Real-time Effects and Presets
- IEEE 1394 Interface Card (PCI)
- Discover Liquid Edition Training CD
- Pinnacle TitleDeko RT
- 40+ DVD Templates
- IEEE1394/FireWire DV Cable (6-pin to 4-pin)

**Liquid Edition Turnkey Computer Systems**

- Liquid Edition Turnkey Computer Systems
- 10-bay tower with 400w power supply
- Intel Pentium 4 3GHz Processor
- 512 MB of RAM (Kingston or PNY)
- Matrox P650 128-bit 64MB 8X AGP Dual Display Card (Liquid Edition 5.5 system)
- PNY MX400 Graphics Card for second display (Liquid Edition PRO system)
- 80GB IDE System Drive, and 120GB Drive for A/V storage
- Pioneer DRV-A06 4x DVD-RW Burner
- Creative Labs Sound Blaster Live
- 3.5˝ Floppy Disc, Microsoft Mouse, Keyboard
- Windows XP Pro operating system software and Liquid Edition 5.5 or Liquid Edition PRO installed
- One-year warranty on parts and labor with tech support
Top off your postproduction tool kit with the Liquid Edition Productivity Pack. This comprehensive professional software bundle includes Pinnacle’s award winning products — Commotion Pro, Hollywood FX Pro, Impression DVD Pro, and TitleDeko Pro. Basically, you get every creative tool you need to do professional compositing, paint, motion graphics, special effects, broadcast-quality titles, and DVDs and much, much more.

**Commotion Pro**
Targeted at motion graphics professionals, broadcast graphics professionals, independent film makers and editors looking for touch-up tools for moving images, Commotion Pro delivers integration of raster-based image editing with a comprehensive compositing system suited to the growing base of independent filmmakers.

**Hollywood FX Pro**
Create stunning 3D transitions, titles and animation effects with Pinnacle Hollywood FX Pro version 5, the powerful creative tool for Pinnacle Edition, Pinnacle Studio and Pinnacle Liquid Systems. Packed with over 400 exciting 3D effects and transitions, Pinnacle Hollywood FX Pro version 5 gives you more creative freedom than any other application in its class.

**Impression DVD Pro**
Impression DVD Pro is everything you need to create compelling, interactive, professional DVD titles! Its as intuitive as it is complete in professional features; including eight audio tracks, 32 subtitle tracks, unlimited menus, Hollywood-style motion menus, multi-angle titles, Dolby Digital support and more! Impression DVD Pro – make a lasting Impression!

**TitleDeko Pro**
TitleDeko Pro is a software-based character generator for both Avid and Adobe editing systems. TitleDeko Pro provides features designed to enhance non-linear video productions. Controls exist to adjust color, texture, gradient, scaling, skewing, kerning, leading, justifying and rotation. TitleDeko Pro will create rolls, crawls and reveals. Additional features include type on a curve, spell checker, unlimited layering and unlimited undo.

**Liquid Edition PRO Adds**
◆ Pinnacle Liquid Edition Accelerator (AGP)
◆ Liquid Edition PRO Breakout Box (Composite, S-Video and IEEE 1394 I/O)

Liquid Edition PRO is the most powerful video editing, effects, compositing and DVD authoring solution available today. Liquid Edition PRO includes a first-rate graphics card and breakout box, guaranteeing real-time analog out to tape with effects and digital I/O. Liquid Edition PRO also provides top-quality VGA output to your main computer monitor and the professional I/O necessary for simultaneous viewing of your projects, with realtime effects, on your NTSC/PAL monitor while going out to your analog deck.
SONY

VEGAS 5

Professional Digital Video and Audio Production

Vegas 5 software provides an innovative and scalable non-linear editing environment for professional video and audio production. Its intuitive interface maximizes productivity and elegantly delivers unmatched power and performance. From DV to HD, Vegas 5 is an all-in-one, real-time solution for digital video and audio production, streaming content creation, broadcast production and more. Vegas 5 is the new standard for professional media production on the PC platform.

Apply high-quality 2D and 3D transitions, filters, credit rolls and text animations; create sophisticated 3D composites, keyframe track motion and pan/crop, and create Bézier masks, all with unlimited tracks and unsurpassed flexibility. Vegas 5 provides real-time playback of effects, transitions, and advanced compositing from the timeline without rendering. Apply advanced color correction and perform scene matching, precisely view video levels using scopes including Waveform, Vectorscope, Parade, and Histogram monitors. Vegas 5 also supports HD and HDV editing and rendering along with native support for 24p DV.

Vegas 5 provides the ultimate in audio flexibility, including unlimited tracks, 24-bit/192kHz audio support, record input monitoring and on-the-fly punch-in recording, effects automation, time compress/expand, and much more. Vegas 5 comes with over 30 studio-quality real-time DirectX effects including, EQ, reverb, noise gate, time compress/expand and delay. Take advantage of hands-on mixing using external control surfaces and envelope automation recording. Vegas 5 is ideal for digital video production, soundtracks, web content creation, radio and broadcast, and mixing 5.1 surround soundtracks.

FEATURES

Powerful Editing, Effects, Transitions and Compositing Tools

- Efficiently edit and arrange events on the Vegas timeline using drag-and-drop operations. Apply real-time effects, transitions, envelopes, color changes, reverse, time-stretching and motion effects. Expertly edit complex SD or HD long-form projects using mouse or keyboard trimming along with powerful ripple editing modes.
- Over 175 2D and 3D real-time transitions, including Barndoors, Clock Wipes, Dissolves, Linear Wipes, Page Peels, Venetian Blinds, Zooms, 3D Fly In/Out, 3D Shuffle and more. All transitions are customizable and can be keyframed to change over the length of each fade or overlap.
- Transition progress envelopes provide full keyframeable control over all transition attributes across the length of an event overlap. Create customizable fades or reverse, hold and repeat individual transitions. Precise customization of transitions in Vegas 5 provides new levels of creative flexibility.
- Create spectacular 3D motion and text effects with precise control over Z-depth, plane intersection, compositing and more. 3D motion is real-time and instantly previewable via an external monitor. Also offers multi-level composite group nesting, separate peer and parent motion settings, and pre and post composite track effects.
- Produce keyframeable Bézier masks for complicated objects. Bézier curves let you closely track object outlines to mask and keyframe shape and motion changes over time. Create depth-of-field effects, apply color correction to specific areas of a clip, crop surrounding source material and create mask overlays. Multiple animated free-form shapes can be created in a single window, with mask invert control for each object. Feather and blend hard edges, set opacity levels for each layer, and zoom the work-space to the sub-pixel level for extremely accurate Bézier mask creation.
- Choose from over 190 customizable video effects including: Lens Flares, Light Rays, Film Effects, Chroma Key, Timecode Overlays, Color Gradients, Media Generators, Credit Rolls, Text Effects and more. Quickly recall frequently used effects chains with new configurable packages.
- Playback and edit video effects, transitions and composites on-the-fly without rendering while viewing each change instantly on external monitors in real-time. Vegas software takes advantage of the PC’s processing power by caching complex processes or effects directly to RAM for smooth frame-rate playback and previews.
- Capture DV from a variety of sources with automatic scene detection, batch capture, tape logging, media bins and thumbnail previews. Print projects to DV tape directly from the Vegas timeline with NTSC or PAL color bars, tone, and source file or timeline timecode windows.
Professional Audio

- Includes a powerful set of audio tools for the most demanding productions. Mix audio in a multitrack environment on an unlimited number of tracks. Use on-the-fly punch-in recording, real-time audio effects, and take advantage of hands-on mixing using external control surfaces and envelope automation recording.

- Apply over 30 customizable, real-time audio effects. Automate delays, reverbs, EQs and more with envelope control for each parameter. Use over ten automated effects such as Track EQ, Reverb, Chorus, Delay, Noise Gate, and Flange/Wah/Phase. New 5.1 DirectX effects for the master bus include EQ, Dither, and Wave Hammer Surround compression tools.

- Extensive tools for the creation of 5.1 surround mixes. Keyframeable surround panning for tracks and busses lets you mix the most demanding DVD soundtracks without leaving the Vegas environment. Apply 5.1-channel audio effects to the master bus for enhanced control over DVD mixes.

- Allows for on-the-fly punch-in recording on armed tracks while playing back your Vegas project. Record and maintain multiple takes of audio into an empty track, a time selection, an event, or a combination of time and events.

- Perform tape style auto-input record monitoring with event ASR parameters applied to the incoming signal. Monitor input signal during both playback and recording.

- Includes 19 new user-definable timestretch modes that let you choose the resampling method that best fits your audio material. Select: change pitch, change length; change length, preserve pitch; or change pitch and preserve length, by semitones or cents.

- Pitch change ACID loops, or any audio event that has had ACID metadata assigned to it, via keyboard commands and modify your audio mix in real-time.

Premium Encoding Tools

- Vegas 5 features high-quality 2-pass VBR MPEG-2 encoding for DVD, broadcast, and other delivery targets. The high-quality DV codec delivers pristine colors, incredibly sharp images, artifact-free compositing and unparalleled recompression quality.

Powerful Color Correction and Matching Tools

- Use 3-Wheel Primary and comprehensive Secondary Color Correction filters to adjust differences in video from different camera setups or lighting situations; enhance dull, washed out footage, or make specific color ranges stand out. All edits can instantly be analyzed on four scopes: Vectorscope, Waveform, Parade and Histogram. Changes are immediately viewable on an external monitor.

- Accurately measure the color, black and whites of video, and locate illegal chroma and luma levels so you can fix them prior to output. View levels in real-time as they play back in the preview window or on an external monitor.

Optimized Workflow/Network Rendering

- The Vegas 5 interface provides a full customizable workspace for accomplishing a wide range of production requirements. Dock multiple windows and save layouts to fit certain tasks; design and save keyboard commands, and use application scripting to automate repetitive tasks. Network rendering saves time by using multiple computers and networked drive arrays to render complex projects. Vegas 5 also supports 24p, HD and HDV editing.
Sony Vegas 5+DVD

Professional Video, Audio and DVD Creation Software

The Vegas+DVD Production Suite is a powerful set of three integrated programs that seamlessly edits video and audio, produces 5.1 surround mixes, encodes to Dolby Digital AC-3 file formats and authors DVDs. From short-form videos to widescreen 5.1 DVDs, Vegas+DVD software provides comprehensive video, audio, and DVD production features for the professional media producer.

The suite includes Vegas 5, the complete solution for digital video and audio production, audio recording, editing and mixing, streaming content creation and surround-sound production. DVD Architect 2 software which includes an extensive set of professional DVD layout and authoring tools for developing dynamic menu-based DVDs, movies, picture slideshows and music compilations. When finished with your audio mix in Vegas software, encode either stereo or multi-channel AC-3 files for use in surround sound DVD productions via the Dolby Digital AC-3 Encoder.

Features

- Author professional menu-based DVDs using backgrounds, motion menus, buttons, text and effects. Use programmable end actions to set DVD content to loop, hold, or timeout at the end of a scene change. Create DVDs with subtitles, multiple languages and running commentary.
- DVD Architect 2’s project overview window provides a hierarchical view of all the menus and titles in a DVD project. View end actions, quickly delete, add or rename a menu or title, or set the DVD introduction media. DVD Architect 2 has a fully customizable interface to optimize workflow.
- DVD Architect 2 works seamlessly with the Vegas 5 environment, providing video and DVD professionals a complete solution for DVD authoring. Vegas markers can be imported into DVD Architect 2 software as chapter points for quick scene creation.
- Export text regions using Vegas software, and import them into the DVD Architect 2. Subtitles display on-screen during movies, slideshows, and music compilations. Text files can be translated for use as alternate language subtitles in a project to create DVDs containing multiple languages. Subtitles can also be imported from a text file or third-party subtitle application. DVD Architect 2 supports up to 32 subtitle tracks for each title (16 for widescreen).
- Output surround mixes by encoding 5.1 multichannel or stereo projects with the Dolby Digital AC-3 encoder. DVD Architect also imports AC-3 files for the creation of multichannel 5.1 DVDs.
- Play back DVD projects in real-time on a virtual DVD player while simultaneously previewing on an external monitor. Simulate different aspect ratios including letterbox and anamorphic widescreen.
- DVD Architect analyzes source material, and provides fit-to-disc adjustable compression in your project on a file-by-file basis. Also includes new recompress settings, allowing per-asset control of bitrate estimation, aspect ratio, resolution, frame-rate, confirmation of no-recompress and more.
- Drag, drop, and arrange stills in the DVD Architect interface. Create personalized music compilations that display text and images, or add background music to stills to enhance presentations.
- Import Flash (.swf) formats into a DVD Architect 2 project and combine with other events to create spectacular DVD motion backgrounds and effects.
- Import MPEG elementary stream MPEG-2 files. No additional conversion is necessary.
- Support for 24p MPEG-2 files for the preparation of 24p DVDs
- Create customizable end actions for menus and buttons in your DVD project. Set DVD content to loop, hold, or timeout at the end of a button or scene change. Set multiple end actions for a single menu item without rendering the file.
- Produce DVDs containing multiple languages, alternate music beds and Director’s commentary. DVD Architect 2 allows up to eight different audio tracks for each title. Also add multiple audio tracks to videos and picture slideshows.
- Customize the DVD Architect environment to fit your workflow. Dock multiple windows and float them anywhere on your workspace – especially useful when working on a system with dual monitors.
- DVD Architect 2 lets you specify behaviors for links, highlight masks, destination buttons, custom color sets, remote behaviors and much more.
- Real-time external monitor preview ensures your DVD project looks the way you wanted. View safe areas and fine-tune subtitles and object positioning in real-time. Simulate different aspect ratios including letterbox and anamorphic widescreen.
- DVD Architect 2 supports the latest devices including DVD+/R, DVD+/RW drives.
The Cost of Video, the Look of Film—Plug-in for Final Cut Pro, Premiere Pro, and Sony Vegas

Magic Bullet for Editors is a finishing tool developed for video editors to allow them ultimate creative control over the final look of their movie, music video, commercial or video project. From the machine-green of Neo to the bleached look of recent war epics, the results will give your video the drama and mood of popular films and television shows. This plug-in brings the power of Magic Bullet to the editing environment, allowing film treatments to be added right on the timeline. It delivers the Look Suite technology including film stock emulation, diffusion filter, and easy-to-use presets. Look Suite processes all images in 32-bit/pixel color space using The Orphanage’s DeepColor technology to deliver unmatched quality. The package also includes Misfire, a film damage creation tool, with 14 different film characteristics, including popular tools like grain, splotches, and scratches—as well as projection artifacts like flicker and gate weave.

FEATURES

- Make any video source look like film
- Includes 50 presets that mimic popular TV and film “looks”
- Includes looks inspired by “The Matrix”, “Traffic”, and “Three Kings”
- Create and save your own unique looks
- Soften the harsh edges and over saturated colors of video
- Provides 14 filters that accurately mimic damage of old film
- Film damage includes grain, splotches, scratches and projection artifacts
- Optimized for Power Mac G4/G5 and Pentium 4

Misfire —Film Damage Software

- Bundled with Magic Bullet for Editors or available standalone, Misfire offers 14 different film characteristics, including grain, splotches, and scratches—as well as projection artifacts like flicker and gate weave. Misfire’s use of custom damage resources accurately mimics damage of old film. A master plug-in with 13 categories of control, it includes individual plug-ins for all 13 effects.
  - Includes 14 easy-to-use plug-ins for adding damage characteristics
  - Lets you quickly build old film looks with easy controls
  - Easy to use and extremely realistic

Offers controls for Fading, Funk, Splotches, Dust, Flicker, Vignette, Displacement, Grain and 3 different types of scratches: Micro, Basic and Deep Scratches. Each effect category can be turned off individually.

Magic Bullet for Editors (with Misfire) ........................................ Call
Misfire ........................................................................................................... Call

The Look Controls component is the most powerful aspect of Magic Bullet for Editors, with 26 different controls you can start from scratch to customize your own video Looks or tweak the included presets to create the mood you desire.

Knoll Light Factory for Editors

Lens flares are the result of photographing bright lights either on film or video. A plug-in for Final Cut Pro & Premiere Pro, Knoll Light Factory was created by John Knoll, co-author of Adobe Photoshop and a visual effects supervisor at Industrial Light and Magic to digitally add extremely realistic lens flares. It is the gold standard in lighting effects used by thousands of motion graphic professionals and visual effects artists to create light effects and lens flares like those on television and in feature films.

- Lens flare preset menu allowing you to easily apply over 40 different flares
- Apply simple glows to photon torpedo type effects
- Adjust the brightness, scale and color the flare presets

Knoll Light Factory ...................................................................................... Call
Section 3a

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24-bit/96kHz Audio Interface and MIDI Keyboard Controller

The ideal audio-interface and keyboard controller when working with limited space, the PCR-1 offers the vast majority of options you’ve come to expect from a high-end sound card as well as a 25-key controller that feels great under your fingers. The PCR-1 draws its power directly from the computer, so now you can compose, sequence, record, playback your music anywhere you can take your computer. (Measures just 1¾” thick and weighs a mere 2 lbs. 11 oz.) Whether working with software synths or powerful sequencing applications, the PCR-1 offers an incredible set of features and superior quality in the most tightly compact keyboard and audio interface available. Includes a carrying case and a Kensington lock port, so it won’t get up and walk away.

FEATURES

- Offers standard width keys to ensure easy play, and 128-step velocity sensitivity.
- Offers 8 assignable knobs and 6 assignable buttons. There is a shift button to change the function of the 8 knobs and 3 of the 6 assignable buttons for a total of 25 controllable parameters per control map
- Offers 16 different save locations for control maps. With 25 parameters available per control map, the PCR-1 offers control over a total of 400 parameters held in the memory of the keyboard.
- 24-bit/96kHz for maximum performance.
- USB Bus-powered, no AC adapter required
- Includes PCR-Editor, a powerful program that greatly eases the process of creating control maps
- Line-level recording & playback through standard RCA-style connections.
- 1/8” headphone jack doubles as a S/PDIF optical output
- Low latency driver support through WDM, ASIO2.0, and CoreAudio. Compatible with a wide variety of audio and MIDI applications for Mac and Windows.
- Direct Monitoring of your input signal lets you hear what you’re recording with absolutely NO computer latency. Direct Monitoring is simply a connection from the input of the PCR-1 to the output of the PCR-1, so the additional lag of the signal going through the computer doesn’t affect the monitoring of the recorded signal.

PCR-30
32-Note MIDI Keyboard Controller

The most advanced 32-key MIDI keyboard controller available. Never before has there been a better compact keyboard for use with popular sequencers and software synthesizers. The PCR-30 takes MIDI control to a new level with unprecedented versatility.

- The PCR-30 can control a number of parameters not accessible from other controller keyboards at this price point; such as RPN, NRPN, SysEx.
- Compatible with WinXP and Mac OS X, the PCR-30 is the ideal keyboard for use with Arturia Storm, SONAR, Cubase, Reason, FruityLoops, and most other popular sequencers and software synthesizers. Comes equipped with templates for these and other programs.

- The PCR-30 is equipped with:
  - 32 full-sized, velocity sensitive keys
  - 8 assignable rotary knobs (cut off, resonance, pan, tempo, etc.)
  - 8 assignable faders (volume, EFX send, etc.)
  - 9 assignable buttons (program change, track mute, start, stop, etc.)
  - Sustain and expression pedal connections
  - 1x MIDI I/O
  - Pitch & Modulation controls
  - One Preset and 15 User Memory locations
  - USB Bus powered or AC adapter
  - Template sheets for controls

UA-1X USB Audio Capture Interface

The UA-1X is a stylish, simple interface that easily turns your USB-equipped computer or laptop into a digital audio recorder. Stereo RCA I/O lets you capture audio from CD players, keyboards or any analog device with line level output at 16-bit/48kHz component-quality to your computer. It also has a combination headphone output with volume control and S/PDIF optical output. Signal indicators show when audio signals are present. Convenient USB connection provides clean digital data transmission as well as power.
**USB Bus-Powered Preamp and Audio Interface**

A bus-powered USB interface with built-in two-channel mic/instrument preamps, the MobilePre USB eliminates the need for an external power supply, making it ideal for field recording and other laptop-based mobile recording situations. It features two XLR-balanced mic inputs with switchable +48v phantom power, 1/8” mini stereo mic jacks for desktop mics, and two 1/4” TRS balanced instrument/line inputs. Each input channel also features a gain control knob (+40dB maximum), phantom power indicator, and a signal presence/clipping indicator. Outputs include two unbalanced 1/4” connectors, 1/8” mini stereo line output, and 1/8” mini stereo headphone output with level control.

- Two pairs of analog line-level audio inputs (1/4” unbalanced or RCA)
- Two XLR-balanced mic inputs with 48v phantom power
- Stereo microphone input (1/8”)
- Two balanced/unbalanced 1/4” TRS high-impedance instrument/line inputs optimized for guitars and basses
- Two unbalanced 1/4” line outputs
- 1/8” stereo line output
- 1/8” stereo headphone output with levels
- Zero-latency hardware direct monitoring (mono/stereo) with software level control

**USB/Firewire Mobile Studio Interfaces—Take your music anywhere you want**

Mobility is about more than just field recording, it’s about ease and flexibility. M-Audio’s mobile audio solutions let you use your laptop or any USB- or Firewire-compatible computer to record and play audio whenever you want. One simple connection gives you all the functionality you need for desktop music production or making music on the go. Plus, these mobile audio solutions all include M-Audio’s legendary driver support spanning all popular operating systems and industry communication standards.

- Mobility and simple connectivity for audio and MIDI
- 24-bit/96kHz audio
- 2x2 16-bit/48kHz analog I/O
- Highest quality components, specifications and fidelity
- Low driver latency, zero-latency hardware monitoring
- Software-controlled internal digital mixing and routing
- Unequalled driver support and software compatibility

**About USB and Firewire**

Offering excellent plug-and-play mobility compared to PCI, the USB and Firewire protocols each have their own inherent bandwidth that dictates how much audio it can transfer. Where PCI handles 132MB/sec., Firewire delivers 30MB/sec and USB 1.5MB/sec. Greater bandwidths allow you to record more tracks simultaneously than do lower bandwidths. USB meets the needs of the majority of users who tend to record one or two tracks at a time. Supplied driver control panel allows you to manage bandwidth according to the needs of each project.

**Audiophile USB**

**USB Audio/MIDI Interface with S/PDIF I/O**

Audiophile USB is an affordable, no-hassle USB audio and MIDI interface that delivers great frequency response, dynamic range and noise specs. AC-powered components deliver better fidelity than bus-powered circuitry and the bundled Mac and PC drivers let you independently scale bit depth and sample rate (up to 96k) to deliver the lowest USB latency anywhere.

- Two pairs of analog line-level audio inputs (1/4” unbalanced or RCA)
- Two analog line-level audio outputs (RCA) with level control knob
- S/PDIF in and out (coaxial)
- Supports AC3 and DTS surround sound setups
- 1x1 MIDI I/O
- 1/4” headphone output with level control
- AC-powered for high-performance A/D-D/A

**EQUIPMENT LEASING AVAILABLE**
M-AUDIO

4-in/6-out Firewire Audio/MIDI Interface

FireWire Audiophile is a compact, IEEE1394-compatible audio/MIDI interface that takes M-Audio's award-winning Audiophile line to the next level. 4 x 6 audio I/O combines with powerful on-board mixing in a mobile package that's perfect for home recording. Stereo headphone output with A/B switching between assignable sources, and the assignable aux bus is perfect for creating dedicated headphone mixes and effect sends. You also get zero-latency hardware direct monitoring, ultra-low latency ASIO software direct monitoring, and 1 x 1 MIDI I/O. Even has AC-3 and DTS passthrough for surround sound playback.

- 2 x 4 unbalanced 24-bit/96kHz I/O (RCA jacks)
- Coaxial S/PDIF digital I/O with PCM, AC-3, and DTS support
- Compatible with ASIO 2, MME Sound Manager, DirectX, Core Audio / Core MIDI

All M-Audio mobile audio solutions include the Maximum Audio Tools bundle - a great collection of software software that lets you make music immediately. Includes:
- Ableton Live Delta audio sequencer (a basic version of Ableton's revolutionary Live audio sequencer software)
- M-Audio ProSession series WAV/REX samples (125MB)
- Reason Adapted, a limited edition of the world's most popular software synthesizer

MAXIMUM AUDIO TOOLS BUNDLE

- Flexible software-controlled mixing
- Rotary encoder is assignable to control any software-addressable level such as output DACs, software returns or hardware input monitor levels
- Momentary A/B source monitoring switch
- Versatile mixer/router control panel provides near zero-latency hardware direct monitoring
- 1 x 1 16-channel MIDI I/O
- Bus-powered or via included power supply

M-AUDIO FIREWIRE AUDIOPHILE

4-in/10-out Firewire Mobile Recording Interface

Delivering powerful performance for Firewire (IEEE1394) equipped computers, the 410's 4-in/10-out configuration is perfect for personal recording where you build up tracks one at a time yet need multiple outputs. FireWire 410's ten outputs allow your computer-based recording system to behave more like a traditional analog recorder or sampler, where signals are bussed to multiple channels of an analog mixer or to multi-channel monitoring systems. Software-controlled DSP handles all internal routing and mixing.

- Two analog input channels each featuring:
  - Balanced XLR and unbalanced 1/4" mic/line inputs
  - Preamp with level control, signal/clip LEDs and amazing available gain of 66dB
  - 48v phantom power (globally switched)
  - 20 dB pad
- 8-line outputs with signal/clip LEDs (unbalanced 1/4" @ -10dBV)
- Stereo monitor level control
- Two-channel S/PDIF digital I/O (coaxial and optical, switched)
- 1 x 1 MIDI I/O with bypass for stand-alone operation
- Two headphone outs with individual level controls (1/4" TRS)
- Two Firewire high-speed ports for connection convenience
- Low-latency software monitoring
- Zero-latency direct hardware monitoring
- AC3 and DTS surround support via digital output
- Analog outs can directly drive up to 7.1 surround w/o decoder using included software bass management
- Standalone operation via AC adapter

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**M-AUDIO**

**UC-33e**

**Advanced USB MIDI Control Surface**

The UC-33e is the affordable, easy-to-use remote USB controller for any computer music system or MIDI setup. It allows instant and simultaneous control of up to 47 different parameters—and with 33 memory locations, changing setups is fast and easy. The powerful Snapshot feature instantly makes all controllers live for real-time, on-the-fly editing, and the unique Control Mute function mutes the output of all controllers, allowing you to position them before tweaking, thereby preventing parameters such as filter cut-off or amplitude levels from jumping abruptly during performance. The UC-33e also features a drawbar mode for the sliders, which greatly enhances the experience of playing virtual instruments such as Native Instruments’ B4 virtual Hammond organ. Use the UC-33e with a conventional MIDI setup, or as a remote control for your existing studio rack. 30 pre-configured presets allow immediate control of the most popular virtual instruments and host applications like Reason, Live, Logic, Cubase SX, Native Instrument’s B4 and more. Also includes 5 color overlays for the front panel customized for programs such as Ableton Live, Pro-53, B4 and a general Mixer Channel Strip plus a blank which users can tailor to their personal setup needs.

**FEATURES**

- 24 fully-assignable rotary knobs
- 9 full-size assignable ALPS faders with light indicators
- Independent channel assign for all 47 controllers
- 33 memory locations for storing your settings, including 4 one-touch access buttons
- 5 color overlays for popular music software
- 14 assignable buttons provide fingertip control over sequencer functions and act as numeric keypad for data entry
- Controller mute function allows positioning before tweaking
- Snapshot mode sends all controller values simultaneously
- Multi-purpose LCD display shows controller assignments
- Drawbar mode for sliders allows realistic control of classic organ sounds
- Sys-ex memory dump
- Global channel assign allows controllers to command up to 16 different channels at the touch of a button
- Operates with music software or stand-alone with MIDI gear
- Sys-ex librarian software loads, saves any combination of setups for your studio

**SOUND SOAP Audio Cleaning Software**

Sound Soap is an easy-to-use, professional-quality noise reduction software designed for videographers and multimedia developers. By simply adjusting two knobs, anyone can remove unwanted hiss, room noise, rumble, electrical hum, and other background noise from almost any digital media file. These include DV and digital audio workstation tracks, as well as cassette or other analog tape recordings that have been transferred to a computer.

- Sound Soap removes “broadband” noise (room noise, tape hiss, road noise, or noise from air conditioners). It also removes low-frequency rumble, as well as hum - 50 and 60Hz electrical “buzzing” sound common in audio recordings —without harming the audio you want to preserve. It can even learn the difference between the noise and the desired audio, achieving amazingly results. With moderate or subtle noise problems, Sound Soap makes the difference between a project that sounds amateurish and one that sounds professional. It can even salvage otherwise unusable audio files.
- Sound Soap removes “broadband” noise (room noise, tape hiss, road noise, or noise from air conditioners). It also removes low-frequency rumble, as well as hum - 50 and 60Hz electrical “buzzing” sound common in audio recordings —without harming the audio you want to preserve. It can even learn the difference between the noise and the desired audio, achieving amazingly results. With moderate or subtle noise problems, Sound Soap makes the difference between a project that sounds amateurish and one that sounds professional. It can even salvage otherwise unusable audio files.
- Use as a standalone application—works with any QuickTime compatible audio or video file (AVI, DV, WAV, SDII, AIFF, MP3, MP4 & many more) or as a fully integrated plug-in with any compatible DirectX or VST host program — including BIAS Peak, Vegas 5, Cubase & others.
- One-step Learn Noise button automatically reduces noise (in under three seconds, SoundSoup will profile any noise in your signal and adjust the Noise Tuner and Noise Reduction knobs to their ideal settings), or fine tune the intuitive controls for even more professional results — in just seconds.
Applications:

- The software synth is here to stay, and along with it comes dozens of parameters to be tweaked. Oxygen 8 puts your hands on any 8 parameters of your choice in real time.
- Oxygen 8 lets you get deeper into your software programs, to get more out of them, to experiment and push them to their limits.
- Gives you more freedom on the stage than you've ever had before, dynamically increasing the possibilities available to you.

Features:

- 8 MIDI assignable knobs, one assignable slider
- Inputs and outputs 16 channels of MIDI to and from your computer using the power and convenience of your USB port.
- Fully functional, velocity sensitive 25 key MIDI controller keyboard, capable of sending all MIDI messages, such as modulation, pitch-bend, MIDI volume, and more.
- Powered via USB port or 6 "AA" batteries, or with the supplied power supply.

What is a MIDI Controller?

Unlike traditional keyboards, MIDI controllers have no sound built into them. They are optimized to control other MIDI sound sources such as synthesizers, samplers and today's popular software synths. For example, here's how you play sounds within a software program:

Because of M-Audio's driver technology, your computer will recognize your Keystation as a MIDI interface with which it can communicate. By playing the keyboard, you send MIDI information to your computer, which triggers sounds in a software program that are played via the audio output to your computer's sound card. You can also send MIDI via the Keystation's dedicated MIDI output port to external MIDI sound modules like synths and samplers.

KEYSTATION 49e
49-Key USB MIDI Controller

The Keystation 49e is the perfect USB MIDI controller keyboard for getting started with music on your Mac. Class-compliancy with OS X means true plug-and-play operation—and the included Maximum Audio Tools software bundle lets you start playing immediately. Despite its simplicity, the Keystation 49e includes a 49-note full-size, velocity-sensitive keyboard for authentic playing experience, as well as built-in MIDI interface, pitch and modulation wheels, and sustain pedal input. Sleek, compact and USB bus-powered, the keyboard is compatible with most educational and studio software.

MIDI Features:

- Built-in 16-channel USB MIDI interface
- 25-note keyboard with full-sized keys
- Eight assignable MIDI controller knobs
- Pitch and mod wheels
- Sustain pedal jack
- Two MIDI outs (one from computer, one from Ozone)

Audio Features:

- Built-in 2 x 2 24-bit/96kHz audio interface
- Stereo out (balanced 1/4" TRS)
- Mic input (XLR) with built-in preamp and phantom power
- Instrument and Stereo aux in (bal. 1/4" TRS)
- Stereo headphone out
- Monitor switch for zero-latency monitoring
The US-428 is a 24-bit digital audio workstation controller with the familiar interface of Tascam’s Portastudio that professionals have come to recognize over the years. Essentially combining a hardware interface with computer functionality, the plug-and-play US-428 interfaces with Windows and Mac-based sequencing platforms via USB without any additional cards to be installed.

The US-428 offers full control over any number of software faders through eight hardware faders, groups of eight software faders selectable with buttons located beneath the unit’s jog wheel. The control surface also supports transport, EQ and control functions for sequencers and DAWs. The US-428 supports inputs of 16- or 24-bit resolution at 44.1 or 48 kHz, and stereo or mono, with four analog inputs and a S/PDIF digital input. Two audio output channels also support 16- or 24-bit resolution in stereo or mono, and at 44.1 or 48 kHz. The US-428 also comes bundled with a custom version of Steinberg’s Cubase VST recording/MIDI sequencing software.

**Features**

**Input Section**

- There are four analog inputs and a stereo S/PDIF input, any four of which can be combined to record up to four simultaneous tracks via USB
- There are four Trim knobs with individual signal present and overload LEDs (one for each analog input) that ensure setting proper input levels before recording.

**Channel Section**

- Eight Channel Faders send continuous controller information to the current bank of eight faders delegated by the Bank select buttons. Each of the eight channels has its own Mute/Solo, record-ready and channel select switches with status LEDs.
- Master Fader controls the level going to the stereo bus output, and/or sends MIDI controller information to the host software.
- Dedicated Transport and Locate controls provide one-button access to the corresponding on-screen transport controls of your host application.
- Four Aux Send buttons with status LEDs access the corresponding Aux Send in your software and are controlled using the Datawheel.
- The Datawheel also acts as a continuous controller for a variety of functions such as a shuttle wheel, moving the transport in the direction the wheel is turned.
- Dedicated EQ module controls the currently selected channel of your audio recording program and has continuous controllers for level, frequency and Q as well as selector buttons that access the four available EQ bands (High, Hi-Mid, Lo-Mid and Low).
- The Pan control allows left/right panning of the currently selected track.
- The left and right Bank Select keys gives you unlimited access to successive banks of eight faders that control the corresponding channels in the software’s internal mixer.
- When changing to a different bank of faders, the Fader Null switch allows you to move the corresponding channel fader, using the Rec and Sel LED’s as up/down guides until the US-428’s fader matches the fader in the software’s internal mixer.
- The Input Monitor switch allows you the Fader and Mute switches for channel’s 1-4 to control the level of four analog inputs A,B,C and D to the US-428’s stereo outputs. This is useful for monitoring the analog inputs with zero latency while recording.

**The Master Section**

- Two balanced XLR Mic/1/4” TRS line inputs
- Two unbalanced 1/4” inputs switchable from Mic/Line to HiZ for direct connection of a guitar or bass
- Coaxial S/PDIF digital I/O, US-428 to USB interface
- 1/4” headphone output, stereo analog monitor outputs (RCA)
- Two independent 16 channel MIDI inputs and output

www.bhphotovideo.com
US-224

Digital Audio Workstation Controller/USB Interface

Combining a hardware interface with computer functionality, the US-224 is a simplified version of the US-428 DAW controller and interfaces via USB. There are no additional interface cards to install, and it is compatible with applications that accept standard MIDI controller messages. Portable and incredibly affordable, the US-224 connects to your laptop for a complete studio you can take anywhere. The US-224’s cool purple control surface gives you more than just mouseclicks for your DAW software. Like the US-428, the US-224 gives you real tactical controls like faders, transports, mutes and solos, panning and more. Plug in a guitar, mic or keyboard and get two channels of audio I/O in 16 or 24 bit quality, as well as 16 channels of MIDI I/O. The US-224 comes with a custom version of Steinberg’s Cubase VST for Windows and Mac. With eight channels of audio and 16 MIDI tracks, the US-224 is a perfect all-in-one setup for anyone getting into the world of computer audio recording.

- The input section comprises a 24-bit audio interface, capable of streaming two simultaneous tracks of audio into your computer.
- Inputs include two balanced XLR mic, two 1/4″ unbalanced line (switchable to high-impedance for direct input of a guitar, bass or other hi-Z source), and S/PDIF digital.
- Outputs include a pair of unbalanced line (RCA), S/PDIF and headphone
- Also has MIDI input and output ports, allowing you to send and receive data and MIDI Time Code (MTC) from your MIDI-based keyboards and other devices.
- The US-224 is powered via its USB connection to the computer with no external power supply required.
- The US-224’s control surface includes a variety of controls which make working with audio software faster and easier. The US-224 allows control over any number of software faders via four hardware faders selectable in banks with buttons located beneath the US-224’s jog wheel. Control surface also supports transport and control functions for sequencers and DAWs.
- The US-224 can also run in US-428 emulation mode offering users the ability to use software already supporting the US-428.

US-428 Compatibility Reference

- Variable ASIO buffer size latency control
- Emulates Pro Tools CS-10 control protocol, allowing use as a control surface for any Pro Tools software (TDM and LE) and Pro Tools Free
- Cubase VST 5.0 or higher (Mac/Windows)
- Nuendo 1.5 - Mac/Windows
- eMagic Logic Audio 4.7 or higher
- Cakewalk Pro Audio 9.xx and Sonar1.xx
- Digital Performer v2.7 or higher - Mac
- Sonic Foundry Vegas, ACID and Sound Forge
- Syntrillium Cool Edit Pro
- Minnetonka MXTracks - Windows
- BIAS Deck and Peak
- Tascam GigaStudio
- Propellerheads Reason
- Most VSTi instruments
2 Channel USB-powered Pro Tools LE-based Micro Studio

Mbox is a compact and affordable 2-channel USB-powered audio interface for MacOS 9.1 and up, MacOS X 10.2.3 and up, and Windows XP, that’s been specifically engineered to offer the home/project studio and the pro who needs a studio quality digital recording, mixing and editing environment that can be taken virtually anywhere. Mbox features a pristine 24-bit input-to-output signal path with two Focusrite designed (Green Range) mic preamps accessible via 1/4” TRS / XLR analog inputs; two 1/4” analog outputs as well as 1/8” and 1/4” headphone jacks with a dedicated volume control for monitoring. A 24-bit stereo S/PDIF digital I/O is also provided for transferring data to and from the Mbox entirely in the digital domain. Every Mbox includes ProTools LE software which features 32 audio tracks and 128 MIDI tracks along with a host of RTAS (Realtime) and AudioSuite (File-based) effects plug-ins.

FEATURES

- Two analog inputs featuring two Focusrite mic preamps with variable gain and switchable 48V phantom power.
- XLR, 1/4” inputs using Neutrik combo connectors with separate source selection (MIC/LINE/INST) and gain controls with peak LEDs per channel.
- Two analog inserts, using 1/4” TRS connectors, allow you to use outboard processors while recording to disk.
- 1/4” TRS left and right outputs with 24-bit D-to-A converters.
- Support for 44.1 kHz and 48 kHz sample rates.
- 24-bit signal path from input to output
- 24-bit coaxial S/PDIF digital I/O allows you to work entirely within the digital domain.
- Zero-latency monitoring
- Inputs and outputs accept both balanced and unbalanced connections.
- 1/4” and 1/8” headphone outputs with dedicated volume control.
- 100% USB powered
- Mbox sessions can be migrated to another Pro Tools platform, from Digi 001 to Pro Tools|HD, for further manipulation.
- Includes a USB cable

Software Supplied with System

- Pro Tools LE Software — 32 audio tracks, 128 MIDI tracks with powerful editing, mixing real-time plug-in support and automation.
- DigiRack RTAS and AudioSuite Plug-Ins: D-Verb, Dither, Dynamics II, EQ II, Invert/Duplicate, Mod Delay, Normalize/Gain Change, Reverse/DC Removal, Signal Generator, Time Comp-Exp/Pitch Shift, Trim
- Digi Design ASIO Driver for Windows XP allows you to use the Mbox with a wide range of popular third-party audio apps such as Cakewalk SONAR 2.2, Propellerhead Reason and Ableton Live.

Specifications

<table>
<thead>
<tr>
<th>Mic pre-amp: &gt; -120 dB EIN @ &gt; 40 dB gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/D Dynamic Range: 101 dB (A-weighted)</td>
</tr>
<tr>
<td>99 dB (unweighted)</td>
</tr>
<tr>
<td>Maximum Input:</td>
</tr>
<tr>
<td>+24 dBu</td>
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<tr>
<td>D/A Dynamic Range: 103 dB (A-weighted)</td>
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<tr>
<td>101 dB (unweighted)</td>
</tr>
<tr>
<td>Frequency Response: 20 - 20kHz (±0.5dB)</td>
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<tr>
<td>Maximum Output:</td>
</tr>
<tr>
<td>+4.2 dBu</td>
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</tbody>
</table>

Digi Studio

Digi Studio is a featured component of Pro Tools software that provides a revolutionary way to collaborate with other Pro Tools users via the Internet. Digi Studio participants interact from any Net-connected location to exchange Pro Tools session media, from raw audio tracks to MIDI data to plug-in information to automation.
DIGIDESIGN

DV TOOLKIT

Convert your Pro Tools LE System into a Desktop Audio-for-Video Powerhouse

DV Toolkit for Pro Tools LE is a software bundle that enables you to easily sweeten and augment the audio content of your own film and video projects. With DV Toolkit, you’re able to import a project file (OMF or AAF) from applications such as Avid’s Xpress DV on either your Windows XP or Mac OS X-based Pro Tools LE system. You can then record new audio such as voice-over and Foley (sound effects you create after the fact), clean up existing audio such as unwanted background noise, replace audio such as compromised on-camera dialog, and even add your own music tracks. Quality audio is crucial to good media — DV Toolkit complements Pro Tools LE’s acclaimed feature set to give you full control over your media projects. The DV Toolkit option includes special Time Code functions, DigiTranslator 2.0 option for full AAF/OMF import and export, Digidesign’s AudioSuite DINR LE noise reduction plug-in and Synchro Arts’ VocALign Project plug-in for dialog replacement.

FEATURES

◆ Offering some of the same key Pro Tools TDM features used in the making of the vast majority of hit feature films, DV Toolkit complements Pro Tools LE’s acclaimed standard feature set to provide full control over any projects. Included are two primary DV Toolkit features, Time Code functions and specialized plug-ins.

◆ Time Code functions enable one to edit audio to picture with frame accuracy, making it easy, for instance, to spot sound effects. Because Pro Tools software is inherently sample accurate, it is easy to achieve the most difficult audio edits with the utmost precision.

◆ Included specialized plug-ins such as Synchro Arts’ VocALign Project and Digidesign’s DINR LE (AudioSuite) complete the picture, readily assisting in audio aligning and clean-up chores.

◆ Includes specialized resources designed to accelerate and improve any media project. DigiTranslator 2.0 manages the exchange of AAF and OMF sequences - standardized files that contain key project information - with other compatible applications such as Avid’s Xpress DV. So a project can be started in Xpress DV, migrated with exact content seamlessly into Pro Tools LE for audio sweetening, and then sent back for final output or layback to tape.

E-MU 1212M Digital Audio System

The E-MU 1212M Digital Audio System delivers everything you need to produce audio on a PC with professional results - 24-bit/192kHz converters, hardware-accelerated effects and mixing, and seamless compatibility with your favorite PC audio/sequencer software. It includes a PCI card that features ADAT, S/PDIF and FireWire interfaces, as well as connectivity to a family of internal and external I/O and sync options. Whether you are recording full-blown productions or running virtual instruments on a dedicated computer, the E-MU 1212M Digital Audio System is the perfect solution for any application that only requires a couple channels of premium analog I/O (i.e. mastering, remixing and running virtual instruments).

◆ Mastering-grade 24-bit, 192kHz converters - the same A/D converters used in Digidesign’s Pro Tools HD I/O Interface

◆ Flexible connectivity with 1/4” balanced analog I/O, 24/192 ADAT I/O and 24/96 S/PDIF I/O, MIDI I/O plus a FireWire port for seamless integration with your entire studio

◆ 32 Channels of zero latency hardware mixing/monitoring with super-flexible virtual patchbay - no external mixer needed

◆ E-DSP 32-bit Multi-effects processor offers you over 16 simultaneous hardware-accelerated studio-grade effects with no CPU overhead - plug-in architecture allows you to add new effects as needed

◆ Full compatibility with most popular audio/sequencer applications with ultra-low latency WDM, DirectSound and ASIO 2.0 Drivers

◆ Powerful software studio package
CAKEWALK

HOME STUDIO 2004 & HOME STUDIO 2004 XL

Affordable Audio and MIDI Recording Software

Based on Cakewalk’s SONAR next-generation audio and MIDI technology, Home Studio 2004 provides amateur musicians and those getting started with PC-based recording, with a host of potent features that include: unlimited audio and MIDI tracks, 24-bit / 96 kHz recording support, audio loop construction tools, hundreds of MBs of ACID™-format audio loops, real-time effects, ReWire 2.0 support, ASIO hardware support, DXi 2.0 support for multi-out synths and automation from synth interface, easier DXi synth integration with Synth Rack, multi-port Drum Grid editing, Edirol Virtual Sound Canvas DXi 2.0 and Audio Simulation DreamStation DXi 2.0 soft-synths. Home Studio 2004 XL adds plug-ins and more loop libraries.

Loop-based Composition Tools

- Easily create and layer loop-based music tracks along with live recordings. Create entire compositions or add new sonic layers to your existing songs. The Loop Explorer helps you find the right samples fast. Browse the Cakewalk Loops sample library created by leading producers, or thousands of available sample collections.
- Preview multiple loops while your project is playing back in tempo and in key with your song. Then just click and drag to paint your canvas of sound. Even make your own loops out of any MP3 or WAV file. Opens and reads ACID™-format audio loops.

Built-in Software Synthesizers

Add hundreds of high quality instrument sounds to your studio with the included DXi soft synths, while the Synth Rack makes loading and working with the synths a snap.

EDIROL Virtual Sound Canvas DXi: A software synthesizer, modeled after the famous Roland synth of the same name. Choose from over 990 sounds and drum sets.

Audio Simulation DreamStation DXi: A vintage analog-style synthesizer reproduced as a DXi plug-in. Combines physical models of analog circuits together with mathematical models of analog oscillators. Works just like a vintage hardware synthesizer worth thousands of dollars today.

Integrate ReWire Synths

Get more synth sounds by patching Project5, Reason, ReBirth, and other ReWire 1.0 and 2.0 compatible synths right into Home Studio 2004’s Synth Rack. Or use Home Studio to add audio recording and editing to your Project5 or Reason studio.

DirectX Audio Effects

Sweeten your mix with Amp Sim Lite, Chorus, Reverb, EQ, Delay, Flange and other audio effects, or even add hundreds of other available DirectX-compatible audio plug-ins.

Graphical Editing Tools

Compose and edit MIDI tracks using the Piano Roll view. Point and click to insert, copy, move, delete or modify MIDI notes and Controller data. View multiple tracks or just one at a time.

Centralized Audio and MIDI Recording

Home Studio is designed to let you concentrate on creating music, instead of getting bogged down with confusing software. It’s all laid out in an intuitive Track window that lets you quickly record, edit, arrange, and mix your music. It doesn’t matter what you want to record—guitars, keyboards, vocals, live turntable scratches, CD samples, or any other sound source. Home Studio puts it all together seamlessly.

Create Video Soundtracks

Home Studio 2004 provides a fast and effective way to create, edit and dub soundtracks for digital video files. Just import and sync any Windows AVI file to your Home Studio project. Then export your finished project to AVI — perfect for enhancing home movies and multimedia presentations.

Home Studio 2004 XL Adds—

- DYAD DXi - (expressive SF2 sample player with a full CD of compatible Sound Font sample banks)
- Audio Effects: SpectraFX (multi-effects processor)
- Audio FX 1 Dynamics Processing Suite, which includes Compressor/Gate, Expander/Gate, and Limiter
- Audio FX 2 Analog Suite, which includes Amp Simulation and Analog Tape Simulation
Multitrack Audio/MIDI Recording and Editing Software

Now you can produce projects faster than with any other Windows-based multitrack recording software available today. The industry-standard for audio and MIDI production, used by thousands of musicians, composers, engineers, and producers involved in CD recording and mastering; scoring and posting for film and television; and music for the web, SONAR 3 Studio offers you speed, precision, elegance, and stability, providing the complete software-based production environment. And with support for the world’s best effects, soft synths, and hardware controllers, SONAR 3 Studio presents an open system that places no limits on your creativity.

SONAR 3 Studio is a digital multi-track recording system, with 24-bit audio support and sample rates restricted only by your hardware. The software is capable of recording, editing, mixing, and delivering music and sound projects for CDs, film and video scores, the Internet, or any multimedia project. There’s no limit on the number of tracks that can be recorded, and you can patch as many effects or soft synthesizers as the host computer’s processor can handle. Additionally, there are no limit to effects sends and busses. Unlimited undo/redo provides the freedom to explore new musical directions without having to commit to them. An Edit History List allows you to instantly jump back and forth to any point in a session.

Templates can be created and saved to recall routing, bussing, automation, mixer, and effects settings for new projects. Hot keys can be assigned to instantly configure SONAR 3 Studio with custom screen layouts for various editing and mixing tasks, and for shortcuts to the editing commands, features and views that are used most.

Effects can be patched, audio trimmed and loops rolled out without disrupting the audio stream. The program also provides advanced MIDI routing, synthesizer layering and MIDI Groove Clips. The supplied Cakewalk VST Adapter provides support for VST effects and instruments.

Track View

SONAR 3’s streamlined Track View is the center of your recording and editing environment, designed to enhance your own creative process. Record, edit, sequence, and mix your projects—all from within one global view—this really maximizes your creative workflow. The On-demand Track Inspector provides convenient access to all channel/bus parameters and plug-ins even when your channels are minimized.

♦ No limit on the number of tracks you can record
♦ Patch as many effects or synths as your processor can handle
♦ Get your mix right with no limit to effects sends and busses
♦ Unlimited undo/redo gives you the freedom to explore new directions for your music—without having to commit to them
♦ Edit History List allows you to instantly jump back and forth to any point in your editing session
♦ Create and save templates to recall routing, bussing, automation, mixer, and effects settings for new projects
♦ Assign hot keys to instantly configure SONAR 3 with custom screen layouts for various editing and mixing tasks, and for shortcuts to the editing commands, features, and views that you use most.
CAKEWALK
SONAR 3 STUDIO

Console View
A well-mixed track can be the difference between album filler and a hit single. SONAR 3 Studio features the latest in 32-bit floating point digital mixing and bussing technology with full delay compensation throughout your signal path. Whether you prefer to mix in the Track view or in the Console view—providing an alternative for mixing and automating audio and MIDI tracks using a familiar hardware-style mixing interface—SONAR 3 Studio has the dynamic tools you need to suit your mixing style.

- Unlimited mixing capabilities with unlimited potential audio and MIDI channels, real-time effects and synths, effects sends, and busses
- Assignable MIDI controls for access and automation of MIDI data
- Mono toggle on all tracks and buses
- All parameters can be automated on screen or remotely via hardware
- FX bins and individual effects can be bypassed for quick A/B comparisons of your mix
- Dynamic Display Filtering—see all mix parameters or only the ones you need with option for narrow or wide strip widths
- Flexible metering (peak, RMS, peak and RMS, pre-fader, post-fader, and pre-fader post effects) with peak history
- Dynamic Console view was engineered from the ground up to meet the needs of mixing professionals

Additional Cutting-Edge Mixing Features
- Confidence recording—real-time drawing of audio waveforms, MIDI data during recording
- Automate with vector envelopes for precise control over your mix
- Patch effects, trim audio, and roll out loops without disrupting the audio stream
- Fast, offline rendering of soft synths, effects, and tracks for conserving CPU
- Frame-accurate SMPTE/MTC sync with auto-detection of time code
- Transmit MIDI Time Code (MTC) and MIDI Sync to multiple output ports
- SONAR also includes completely configurable, dynamic bussing capabilities:
  - Use busses for subgroups, effect sends, master busses, output to different monitor or headphone mixes
  - Route busses to other busses or main outputs
  - Insert busses and sends on the fly, pre or post fader
  - Per-track “input monitoring” switch
  - Input monitoring no longer linked to recording and can be toggled on/off per track

Integrate DXi & VSTi Soft Synths, ReWire Clients
Compose, orchestrate, and perform using SONAR 3’s integrated software synthesizers, or widen your scope with DXi and VST instruments, ReWire clients like Project5, or external MIDI synths.

DXi (DirectX Instruments)
- DXi is the open standard for soft synth plug-ins, based on Microsoft’s DirectX technology. DXi synths are CPU efficient with low latency — unlimited DXi synths can be loaded simultaneously (CPU dependent) with full automation and multiple output capabilities
- Three DXi instruments are included while additional DXi synths are available separately from leading developers including Native Instruments, IK Multimedia and others.

ReWire 2.0 Support
- Patch Cakewalk’s own Project5, as well as Propellerhead’s Reason, ReBirth, and other ReWire 1.0 and 2.0 compatible devices right into the Synth Rack.
- Route ReWire channels into audio tracks and process with DirectX effects
- Use MIDI FX, automation, and sequencing capabilities to control Reason
- Add VST instruments and effects with an optional VST to DX converter.

Audio Simulation – DreamStation 2.0
DXi Polyphonic Analogue Synth
- Accurately reproduces analog synth sounds by modeling analog circuits and oscillators.
- Combines subtractive synthesis with FM synthesis.
- 3 oscillators, multimode self oscillating IIR filter, VCA, LFO, user EG for each voice.
- Waveforms include sine, triangle, sawtooth, pulse, square and noise.
- Filter types include 12dB/Octave Lowpass, Highpass, Bandpass, 24dB/Octave Lowpass and Formant.
- Up to 16 voices polyphony.

Virtual Sound Canvas DXi 2.0
- Modeled after one of the world’s most popular sound modules
- 16-part multi-timbral up to 128-voice polyphony
- GM2/GS compatible – 902 tones plus 26 drum sets
- Reverb, chorus and delay effects
Cyclone DXi
Cyclone DXi presents a new, more flexible way of working with samples, and brings a live dynamic to loop-based music.
- A 16-part, ACID-compatible, multi-out, phrase sampler, loop trigger, composition tool, and loop editor wrapped up in a single DXi synth
- Rearrange, replace, combine, and tweak loop slices to create custom grooves
- Perform and record loop-based compositions in real-time using any MIDI device, MIDI tracks, a computer keyboard, or mouse
- Loaded samples match the tempo and pitch of your project
- Control gain, pitch, and pan of individual loop slices
- Full control over looping points: a great way to create polyrhythmic textures and work with loops in odd time signatures
- Support for multiple outputs & key mapping
- Snap to grid with assignable resolution
- Export combined loops as a Groove clip that can be used in Sonar and other apps

Loop-based Composition Tools
With support for both ACID™-format audio loops and MIDI groove clips, SONAR 3 provides total integration of loop-based composition to your studio.
- Features on-the-fly beat matching, and loops follow the pitch and tempo of your projects with no degradation of audio
- Create and export ACID-format audio loops and MIDI Groove Clips for use in other projects
- Roll-out loops with click and drag ease
- Find & audition audio loops in real-time from the Loop Explorer view
- Includes loop content from KeyFax, PowerFX, and Smart Loops

Enhanced MIDI Routing and Synth Layering
- Play multiple or split synths from one MIDI controller
- Route multiple controllers to multiple synths or MIDI devices
- Custom drum maps allow you to create and play kits that span MIDI devices on multiple ports and multiple DXi synths
- Save presets of your favorite MIDI configurations for instant recall

Complete MIDI Editing
SONAR is widely recognized for having the most complete and intuitive MIDI editing of any multitrack recording system

Multitrack Event List
- Provides a list of all selected events occurring in all selected tracks
- A display filter lets you to specify the data type(s) to be viewed and edited (notes, pitch bend, controller, etc...)
**Computer-based Music Production**

The most widely used program of its kind in professional music production, Logic Pro 6 elegantly combines composition, notation and audio production facilities, as well as renown virtual instruments and effects, all in one complete package. Logic Pro 6 combines all of the attributes required to form the ultimate music and audio production software for your Mac. It offers intuitive control, a freely configurable user interface and has an envious reputation for its reliability. An all-in-one solution for music composition, audio recording, multimedia, sound generation, movie scoring and remixing Logic Pro 6’s comprehensive set of music creation tools include rock-solid MIDI timing and synchronization, mixing and automation with total recall, as well as non-destructive editing of both audio and MIDI in real time. It also offers superb MIDI timing with 960 PPQN and sends and receives synchronized MIDI clock, MTC, MMC and word clock signals, making it ideal for film, TV and video post-production facilities. Whether it be comprehensive surround sound, to near publishing quality score generation, to infinitesimal MIDI manipulation, to the integration of hardware interfaces for both audio and MIDI, Logic Pro 6 delivers and more. It is bundled with nine software sound generators, including the EXS24 mk II virtual sampler, and the EVD6, EVB3 and EVP88 vintage sound modules. It offers five synthesizer modules, and includes Space Designer, a high-end reverb plug-in.

**Audio & MIDI**

Logic Pro 6 provides countless features for the seamless processing of Audio and MIDI data in a single application. Powerful editors and the Arrange window allow extensive manipulation of sound and MIDI data. The entire premise behind Logic Pro 6 is built around the demands of professional users for optimum workflow in the studio. This approach allows you the freedom to concentrate on the creative part of the job - the music!

**The Arrange Window: The center of your musical ideas**

The Arrange window - or simply Arrange - provides you with a number of graphical objects that can be rearranged and edited in a number of ways to form a song in Logic Pro 6. Audio recordings and MIDI keyboard performances are captured and displayed in a linear fashion, vertically divided into tracks. You can even incorporate thumbnails of a QuickTime movie in this track view as well, when scoring a movie, TV show or perhaps an advertisement.

Beyond the rearrangement of graphical audio and MIDI objects, numerous editing possibilities are available in the Arrange. Time Stretching, for example, allows the length of an audio object to be quickly and easily adjusted to match a chosen number of bars - without affecting the pitch of your audio. The Marquee Tool assists in selection of specific portions of your graphical audio and MIDI objects, allowing precise move, copy, delete or cut edits.

The channel strip of the selected track is displayed on the left of the Arrange. This facilitates fast access to mixing parameters directly from the Arrange, enabling you to see and graphically edit parameters of the mixer, internal effect plug-ins and software instruments as well as those of external MIDI devices.

Freely customize the way the Arrange is displayed by selecting different zoom levels for each track plus several other visual options. This flexibility lets you create a central interface for your projects, offering an optimized overview that precisely matches your individual needs. This, put simply, accelerates your workflow in Logic Pro 6.
**MIDI And Score**

You can freely record your MIDI melodies and arrangements via USB MIDI keyboards or interfaces. There are no boundaries for your imagination as a near unlimited number of MIDI tracks allows the creation of vast arrangements. An extensive selection of editors provide access to your MIDI data: the Matrix and Hyper editors both provide convenient edits via the manipulation of graphical objects. The alphanumeric Event editor provides comprehensive information on every detail of recorded MIDI events.

- The Score editor perfectly transforms MIDI performances into notation - in realtime - as you’re playing. Elaborate layout functions and professional notation printout functions allow you to quickly deliver anything from a lead sheet to a complete orchestral score. Automatic transposition of different instruments is supported, as well as guitar tablature, drum notation and rapid entry of song lyrics or performance notes.
- The Environment provides you with a virtual representation of your physical MIDI hardware. The entire data flow is visible onscreen. MIDI processing objects such as: arpeggiators, chord memorizers, faders and delays can be inserted at almost any point in the data flow.
- The Environment provides you with the tools to perform a range of tasks. As examples, you could; construct dedicated remote controllers for MIDI devices, build a drum computer or step sequencer, or perhaps simply fade between two audio tracks with the modulation wheel.
- No other audio and MIDI sequencing program provides more flexibility in this area than Logic Pro 6.

**Audio Recording And Editing**

Logic Pro 6 turns your Mac into a professional digital audio workstation that meets the highest demands for audio quality. Logic Pro 6 supports audio at up to 24-bit resolution and sample rates of up to 192 kHz - for both audio recordings and playback of internal software instruments. This high level of sonic quality is maintained throughout the project - even during mixdown to 16-bit audio for CD release - thanks to the integrated POW-r dithering algorithm.

A powerful sample editor is integrated into Logic Pro 6, allowing precise editing of your audio data. Beyond simple operations such as: cut, copy and paste an extensive suite of DSP processing tools are also available. These tools include: time stretching, pitch shifting and formant correction. Further processing possibilities are afforded by the option of inserting Premiere and Audiosuite plug-ins.

Logic Pro 6 features integrated support of ProTool HD systems. You can link the native signal processing of the computer with the DSP hardware of TDM systems via the optional Emagic System Bridge (ESB TDM). This combination of the native and TDM systems ensures that all available processing power is available for your use. ESB TDM also extends the functionality of the EXS24 by allowing it’s insertion into Aux channels of the Logic Pro 6 TDM mixer.

**Arrange and Track Mixer Window—Producing the Mix**

The virtual mixer of Logic Pro 6 controls a maximum of 255 audio tracks, 64 audio instrument tracks, and a nearly unlimited number of MIDI tracks.
- Each audio and audio instrument track can display and use up to 15 insert plug-ins and 8 effect bus sends.
- Logic Pro offers over 50 integrated effect plug-ins and supports additional AU format (Mac OS X) or VST format (Mac OS 9) plug-ins. Logic Pro 6 also features an exclusive collection of software instruments as well. As with the effects, additional instrument plug-ins are integrated via AU in Mac OS X and via VST2.0 in Mac OS 9.
- The parameters of software instruments and effects, as well as the controllers of the mixing desk, are integrated into the comprehensive automation system of Logic Pro 6 - allowing full, total recall mixes. The mixer further supports a range of hardware controllers, spanning from simple models for the home studio up to high-end professional control surfaces that are deeply integrated into the Logic system.
- Your final mix is written to your hard drive in industry standard formats such as: SDII, WAV, AIFF and MP3 (in Mac OS X).
- Logic Pro 6 also features support for 12 surround formats, making it ideal for those involved with soundtrack work.
EMAGIC

LOGIC PRO 6 continued

Sound Generation
One of the aspects that makes Logic Pro 6 a unique music and audio production system is the comprehensive collection of software instruments that it includes. All of the instruments offer the same level of pristine sound quality, achieved through the use of 32-bit internal processing. The utilization of modern technologies, such as component modeling algorithms, are the basis for calculating the most complex of sounds - in real time!

A delightful side-effect of this uncompromising stance towards the technology is the brilliant responsiveness of the instruments, with even the smallest nuances in playing style being reflected sonically. The exclusive selection of instruments offered by Logic Pro 6 features; a software sampler, synthesizer and virtual counterparts of vintage keyboards, including the Hammond B3 Organ and Hohner D6 Clavinet. The seamless integration of these instruments into Logic Pro 6 guarantees optimal handling and processing, no matter where you wish to use the system - on stage or in the studio. You can even use it while travelling - on your PowerBook!

The instruments are easily inserted into an audio instrument channel strip of the Logic Mixer. The integrated track-based automation system of Logic Pro 6 allows you to graphically display and edit the parameters of the instruments, and if you have a hardware controller, these parameters can be adjusted and recorded as well.

EXS24 mk II Software Sampler
The EXS24 mk II software sampler is the standard amongst Logic-based musicians and producers. Easily and quickly incorporate sample-based sounds into your productions - with uncompromised sound quality of up to 24-bit/192 kHz resolution! It also offers outstanding support for a wide range of sample library formats, including: EXS24 native, Akai, GigaSampler, SampleCell II, SoundFont2 and REX2, providing you with access to a huge number of sound libraries. The EXS24 mk II allows the use of huge sample libraries, as memory is only limited by the computer's RAM or hard disk capacity.

- The EXS24 mk II is a reliable and productive partner in every studio, featuring; sample-accurate timing, total recall and an intuitive operating concept. If desired, up to 16 individual outputs can be addressed, allowing further processing of EXS24 mk II sounds with Logic Pro's extensive range of effect plug-ins.
- The modulation matrix, borrowed from the ES2 synthesizer, provides comprehensive routing possibilities, allowing countless creative sound processing options. Sources include: the three LFOs, the two snappy envelopes, any MIDI-Controller, or the level of the sidechain input can be routed to Sample Select, Sample Start, Pitch, Glide, Volume, Pan, envelope times, parameters of LFOs or filters.
- A excellent sounding multi-mode filter completes the feature set, providing adjustable slopes, variable filter overdrive amount, and a fatness circuit that ensures excellent low frequency response, even at high resonance settings.
- Additionally, Logic Pro's ESB TDM allows the direct insertion of up to 32 instances of Emagic's Xtreme Sampler 24 Bit into the Aux channels of Logic’s TDM mixer. The stereo output signals of each EXS24 instance can be treated via any of the processing options afforded by the TDM DSP environment, such as TDM plug-ins.
- Each EXS24 TDM is calculated by the host CPU, and places no overhead on the TDM DSPs. The MIDI performances of each EXS24 TDM instance are recorded on TDM Auxiliary tracks, and are controlled directly in Logic Platinum. This eliminates the need for OMS, thereby providing the benefit of sample-accurate playback for all instances of the EXS24 TDM.

ES1 Software Synthesizer
The ES1 has the heart of many classic analog favorites, and includes all of the details and facilities that fans of this type of sound generation know and love. It is rich with character, and elegantly combines 30 years of synthesizer history for the Logic platform.

Offering up to 16 voice polyphony, every ES1 voice features a main and sub-oscillator delivering the raw sonic material shaped by the analog ES1 filter. Each oscillator features a set of “classic” waveforms including triangle, sawtooth and variable pulse. The sub-oscillator, with its own five waveforms, operates one or two octaves below the main oscillator adding a solid bass fundament. Additionally the suboscillator provides a noise source and an input for an external audio signal allowing audio tracks to be processed with rhythmically changing filter movements.
ES2 Software Synthesizer

Rather than recreating old analog synthesizers with wood-grain end blocks, Emagic’s ES2 offers an innovative software synthesizer that combines the full-bodied warmth of subtractive synthesis with the unbelievable possibilities of digital tone generation systems such as vector synthesis and frequency modulation (FM). Draw from a whole host of sounds and an exclusive range of synthesis techniques to create radical sounds or the most subtle of sound changes. The same level of flexibility also extends to the huge number of modulation options.

- Handles the warm subtractive synthesis of classic analog synthesizers with the same ease as it does popular digital synthesis techniques such as Vector Synthesis, Wavetable Scanning and Frequency Modulation (FM).
- Use up to 64 ES2 simultaneously, depending on the computer power available. Each ES2 has 32 voices, each offering three especially flexible oscillators, two filters and extensive modulation possibilities. Select Unison, and layer up to 32 voices for huge, imposing sonic monuments.

ESM, ESE and ESP Instruments

Logic 6’s instruments combines high sound quality, simple handling and modest processing demands in an ideal way.

The ESM is a monophonic Bass Synthesizer that is ideal for the creation of powerful basses and expressive lead sounds. It provides variable selection between sawtooth and rectangular waves. A source of particular pleasure is the resonance-capable dynamic low-pass filter, with a biting slope characteristic of 24 dB.

One of the strengths of the eight-voice polyphonic ESP are the characteristic 80’s pop music synthesizer brass sounds, for example. In addition to the oscillator, sub-oscillator and filter, the ESP offers an LFO for creating wah-wah-effects and an ADSR envelope generator for precise level control.

The ESE is an eight-voice polyphonic synthesizer designed for padsounds. The basis of its sound generation are sawtooth or rectangular waves, that can be mixed in a near-infinite variety of base tones. The sawtooth wave can be modulated in frequency, the rectangular wave in impulse width. ESE further offers selectable attack and release times, a dynamic low-pass filter and a three-step chorus/ensemble effect.

Vintage Instruments

EVP88 (Emagic Vintage Piano 88) - Vintage Sounds for Logic

Fender Rhodes, Wurlitzer, Hohner – the sounds of these vintage electric pianos have been legendary for decades. Often criticized for being maintenance-intensive, big and heavy, the sounds of these original instruments can be used in the Logic system with none of the hassle. The EVP88 is precise in every detail, with all sounds are reproduced authentically, without the use of samples. This modeling technique results in a software instrument that not only sounds great, but responds to every subtle playing nuance with incredible dynamism. In addition, the deep integration of the EVP88 into Logic guarantees stability, ease-of-use and perfect total recall automation.

EVB3 Legendary Hammond Sound for Logic

The Hammond B3 organ is one of the most influential keyboard instruments of the 20th century. The characteristic B3 sound has been, and continues to be heard, in a wide range of musical styles such as Motown, Jazz, Pop, Rock, Funk, Reggae, Dance, Country, Blues, Soul and Gospel. For anyone working in a computer-based environment with a Logic system, this unmistakably warm sound is an essential. The EVB3 flawlessly recreates the sound of the B3 in software. As with all Emagic instruments, the user interface is intuitive, and offers far more tonal flexibility than the original instrument.

EVD6 The Funkiest Instrument Alive

The Hohner Clavinet D6 is one of the classic keyboard sounds of the 20th century. Although the D6 has always been closely linked to funk, the sound is used in countless pop, reggae and dance productions. The EVD6 mathematically recreates every subtle nuance of the original without using any samples, making it an extremely playable instrument.
Sound Processing

Given the dramatic increase in computer processing over the past few years, the potential - and reality - of digital sound processing has developed at a staggering rate. This "native" sound processing - calculated directly on the computer processor(s) - substitutes the use of external DSP's (Digital Signal Processors) and effect devices. Logic Pro 6 delivers over 50 realtime effect plug-ins, allowing for the most innovative audio processing. The basic technical specifications - 32-bit floating point mathematics and support of audio resolutions up to 24-bit/192 kHz - ensure uncompromising sound quality.

The included plug-ins are precision tools for sound processing, offering a straightforward interface that enables the user to conceptualize and realize any sound design visions with the minimum of fuss. The intuitive, ergonomic interface and professionally-oriented feature set of the plug-ins is the result of the Emagic’s extensive studio experience and the active exchange of knowledge with countless users. A multitude of forward looking functions have been implemented, with many going far beyond the feature sets and ideas of traditional plug-in concepts.

In addition to the built-in effect system, Digidesign’s TDM system for ProTools hardware is completely supported, including surround. Depending on the configuration, up to 64 audio tracks and 64 busses are available. TDM plug-ins from all major developers can be used and fully automated. I/O inserts even allow the integration of external audio effect processors.

Space Designer (Reverb)

Featuring a real-time convolution process, it is now possible to produce a reverb in Logic that is virtually indistinguishable from that of a real room or hall. Using a real-time calculation process, Space Designer merges the input signal with a reverberation sample - the impulse response (IR) - taken from any acoustic space such as, for example, a room, hall, or cathedral. The result sounds as if the input signal had actually been recorded directly in the sampled room. The reverb can be further shaped using Designer’s comprehensive parameter set. Ships with a library of over 1,000 impulse responses. These include real rooms and halls, as well as legendary classic and contemporary reverb units. In addition, you can always record your own impulse responses.

The ability to create and edit your own custom convolution reverbs sets Space Designer apart. In addition to the sampled reverbs, Space Designer uses a unique reverberation method that features specially designed envelopes to create high-quality synthetic reverbs. The results are dense and smooth reverbs that complement your mix without the need to extensively boost effects levels.

EVOC20 (Filter and Vocoder)

The EVOC20 package provides three powerful tools for sound design: A classic polyphonic vocoder with built-in synthesizer, a formant filter bank, and a pitch tracking vocoder. Each plug-in provides maximum flexibility and features pristine 32-bit sound quality.

Tape Delay

This delay recognizes the tempo of Logic. Just click on the sync button and the echo fits the beat. The Groove slider offers smooth switching between triplet and dotted notes (this corresponds to Logic’s Swing parameter). Delay time can also be modulated with an LFO as well.

Stereo Delay

The Stereo Delay offers similar controller features to the Tape Delay, although tape saturation is missing, to optimize CPU-efficiency. The feedback level is separately controllable for each stereo channel, and is rounded out with a separately controllable cross feedback level. As a result, interesting rhythmic structures can be easily created.

Distortion2 (EVB3)

Emagic’s EVB3 also benefits from the included Distortion2 plug-in. Selection “type” offers three different simulations of tube amplifiers: a Leslie 122, a classical guitar amplifier and an amplifier with a more aggressive sound character, for drastic distortion effects.

Dynamics

• Compressor • Expander • Noise Gate • Enveloper • De-Esser • Multipressor • Limiter

Channel EQ

Perfect EQ-ing has never been so easy, intuitive, precise and efficient. The Channel EQ seamlessly unites two tools in one plug-in. In addition, it is possible to see a thumbnail view of the Channel EQ displayed in the upper corner of a channel strip.

Modulation

• Modulation Delay • Phaser • Tremolo • Ensemble • Rotor Cabinet (EVB3)

• Spreader • Scanner Vibrato (EVB3)

Special

• Spectral Gate • Pitch Shifter • SubBass • Denoiser • Exciter • Stereo Spread
Logic Express 6 perfectly fits the needs of aspiring musicians and audio engineers. It provides all of the tools needed to write, record, edit and mix music - at a sample rate of up to 96 kHz. The included EXSP24 sample player enables you to easily integrate a huge range of sounds, from countless sample libraries, into your projects. The critically-acclaimed EVP73 Vintage Piano and the astoundingly fat ES1 Synthesizer further expand the sound generation capabilities of Logic Express. Logic Express offers the same flexibility, reliability, ease of use and precision as its “big brother” Logic Pro 6, making it the perfect product to start creating music like the pros - without breaking the bank.

Logic Express recreates a complete studio environment - directly in your computer. Record audio and MIDI (via a MIDI keyboard), and develop your own arrangements, remixes and mixes.

Arrange and Mixer
The Arrange window, where both MIDI and audio tracks are arranged and edited - via a comprehensive selection of tools, is the nerve center of Logic Express. View your entire song arrangement at a glance, or zoom into individual regions. Graphically enter controller data – volume and pan curves, for example – directly into individual tracks. Even compose to a synchronized digital movie – no matter if it’s a multimedia presentation, a film score or your holiday video.

FEATURES

Audio
Logic Express allows you to work with up to 48 stereo or mono audio tracks, at up to 24-bit/96 kHz resolution. A maximum of 12 inputs and outputs are simultaneously supported (dependent on your audio hardware). The built-in stereo Sample Editor allows precise editing of your audio recordings and incorporates creative options such as pitch and tempo editing.
- High-end dithering with POW-r algorithms
- 32 Bit internal processing
- Hardware independent audio scrubbing
- Up to 48 stereo tracks (depending on CPU)
- 4 band Channel EQ Plug-In
- Up to 16 audio instruments
- Supports ReWire 2
- Bouncing with realtime effects including Offline Bouncing
- 8 busses
- 4 inserts per channel
- 8 sends per channel
- 28 integrated high end effect plug-ins

MIDI and Score
The MIDI sequencing capabilities of Logic Express provide extensive control over internal software instruments and external MIDI instruments. Up to 128 MIDI in and outputs are supported, and a virtually unlimited number of MIDI tracks. The editors, include the Matrix Editor, Event List and Hyper Editor. These powerful and elegant tools make editing and modifying MIDI data a breeze. Express also features a comprehensive scoring section, allowing the creation of printed notation. It incorporates a number of pre-defined score styles and generic guitar tabulation facilities, plus lyric entry and much more.
- Transform Window
- HyperDraw in Arrange, Matrix and Score window
- Score editor with easy realtime notation including printout, steptime input window
- AMT for ultra-precise MIDI timing with
  - Emagic AMT8 and Unitor8
  - AutoLink with Emagic SoundDiver

Instruments and Effects
The increase in computer processing power over the last few years has made the concept of the “virtual studio” a reality. Logic Express 6, combined with your Apple computer, now plays the role of a tape machine, mixing desk and a MIDI Sequencer. Nowadays, the external effect racks and even instruments can also be substituted with software equivalents. Logic Express 6 features over 18 professional effect plug-ins that process sounds in realtime. Also included are three software instruments to help your initial compositions.
- The EXSP24 sample player provides you with easy access to vast sample libraries.
- Play the EVP73 with your MIDI keyboard, and you'll quickly realize that it really feels like you’re playing a Fender Rhodes electric piano.
- ES1 virtual analog synthesizer invites you to experiment with all kinds of electronic sounds.
**Audio Workstation Software with MIDI Sequencing for Mac**

An integrated digital audio and MIDI sequencing production system, Digital Performer provides a comprehensive environment for editing, arranging, mixing, processing and mastering multitrack audio projects for a wide variety of applications. Digital Performer allows you to simultaneously record and playback multiple tracks of digital audio and MIDI data in a totally integrated, creative environment. It features dozens of real-time DSP-effects with easy to use graphical controls, complete automation and supports multiple processor computers. Extensive audio file editing is also included, from the usual cut, paste and copy tools to MOTU’s PureDSP functions, providing independent control over the duration and pitch of audio files with exceptional sound quality. This allows for tempo-conforming drum loops, adding vocal harmonies or even gender-bending vocal tracks. Digital Performer’s award-winning multitrack sequencer design, combined with non-destructive digital audio editing capabilities, provide you with unprecedented flexibility and control over the audio you create. And now, version 4 takes full advantage of OS X’s MIDI and audio services, providing 100% compatibility and inter operability with OS X and all CoreMIDI- and CoreAudio-compatible software and hardware.

**FEATURES**

### Audio
- Unlimited audio tracks (as many tracks as your CPU and hardware will allow) with support for high resolution 24-bit audio up to sample rates of 192kHz.
- Direct support is provided for MOTU’s range of professional audio interfaces, such as the 2408MKIII, as well as a wide range of third party audio hardware using Core Audio drivers. ProTools HD support is expected in the near future as a free update.
- Audio tracks can be mono, stereo and surround (n-channel) tracks.
- The Bounce to Disk feature allows you to combine an unlimited number of audio tracks, along with effects and realtime automation, into a single mono, stereo or surround track. Need to hear 100 audio tracks at one time? Just bounce them down. Original tracks are always preserved, so you can go back and tweak them if needed.
- Audio Editing
  - View and edit all of your digital audio tracks in a single, intuitive window
  - Audio editing is accurate to a single sample

### MIDI
- Record and playback an unlimited number of MIDI tracks simultaneously.
- MIDI can be edited with a resolution of 1/10,000,000 PPQ (pulses per quarter).
- MIDI timing resolution is accurate within a single MIDI byte (under 1/3 of a ms) when used with a MOTU USB MIDI interface.
- Individually zoomable tracks, flexible window arrangement, and navigation tools allow for trouble-free manipulation within even the largest projects.
- Effects
  - Dozens of real-time 32-bit and 64-bit DSP-effects are provided with DP to meet the demands of today’s audio production including EQs, dynamics processors, reverbs, modulation effects, delay, filters, preamp simulators, mastering plug-ins and more

### Automation
- Everything is automatable, including effects parameters with five advanced automation modes and sample accurate editing of automation data.
- Support for control surfaces including Mackie Control, Mackie HUI, CM Labs MotorMix, Radikal Technologies SAC-2.2
- Save your fully automated mixdown for instant recall at any time, and then create an unlimited number of alternate mixdowns
- Virtually every parameter can be immediately accessed via customized key commands or MIDI controller. You can even save your key command settings and import them into a DP session at another studio.

**How Many Audio Tracks?**

The maximum number of tracks you can play back at a time depends primarily on your CPU speed, how fast your hard drive is and how much RAM you have. Based on a Dual 1.2Ghz G4 w/512MB RAM you can expect to get approximately 140-150 independent tracks of audio with 8-band EQ and dynamics on every track.
**Sequence Editor**

Side-by-side display of MIDI and audio tracks — The Sequence Editor window provides combined viewing and editing of MIDI notes, audio soundbites (audio regions), audio automation and MIDI controller data in one window along a single timeline.

Zoom in to work on fine details or zoom out for a wide overview.

This expanded MIDI track uses a graphical Piano Roll style editor to display MIDI events and controller data using 'audio style' breakpoint automation.

Record and insert volume and pan effects.

**Soundbites Window**

- "Drag and drop" audio regions from the soundbites window to any editing window for intuitive placement.
- Sort by any parameter (length, bit depth etc.) Trace the genealogy of the soundbite by viewing it's family tree.

**Waveform Editor**

The Tool Palette includes: arrow cursor, pencil, waveform tool, waveform selector, rhythm brush (for painting percussive patterns in the Drum Editor), magnifying glass, loop insert, and scrub. These tools operate consistently across all applicable windows. If a tool does not apply to the currently active window, it grays out.

- The fully-integrated waveform editor provides all of the tools you’d expect from a premium editor including:
  - View and Edit mono and stereo audio files and create soundbite boundaries with single sample accuracy
  - Use the pencil tool for removing clicks
  - A loop tool lets you create perfect loops for your sampler as well as mute and scissor tools
- Many navigation tools are provided to help you work more efficiently like scrubbing, jumping to selection or loop boundaries, as well as user-definable zoom levels

Open the various MIDI and audio editors and other windows with a single mouse click.

Movie track — a QuickTime movie track displays movie frames side by side with MIDI and audio data. DP intelligently displays more frames as you zoom in and fewer frames when you zoom out, so that frames are never obscured by overlapping one another.

Independent vertical zooming – Both MIDI and audio tracks can be independently resized vertically. Many zoom shortcuts are provided, including the ability to enlarge one track and automatically scale all other tracks to fit in the window.

Scale individual audio track sizes as well as adjust the waveform height within each track.

Non-Destructive Audio Editing
Copy and paste regions to repeat verses or sound effects.
Graphically draw volume and pan automation curves.

Re-size soundbites by dragging their edges. Split and trim soundbites to work with smaller regions.

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DP’s Mixing Board – a virtual mixing console on your computer screen

- More flexible than even the most expensive hardware consoles ever made
- Instantly create customized board layouts: drag track strips anywhere you like, and show or hide any combination of tracks - or even mixer sections (like the inserts section) - with a mouse click.
- Save and recall any number of custom Mixing Board configurations
- Assign tracks to plug-ins and MIDI effects processors for real-time output processing
- Faders can respond to control surfaces or any MIDI controller such as a volume slider or pedal, mod wheel or any data slider.
- View your MIDI and audio tracks in a single, unified mixer

32-Bit and 64-Bit Fully Automatable Realtime DSP Effects

- 32-bit and 64-Bit realtime effects with easy to use intuitive graphical controls
- Effects can be inserted on a single channel or on a bus and accessed via a channel send
- Effects can be easily organized into folders
- Multiple plug-in windows and surround panners can be opened simultaneously
- Up to 20 effects can be inserted pre or post fader per channel
- The number of simultaneous effects is limited only to the speed of your computer
- Multi-processor support of MOTU’s and third party plug-ins provides nearly twice as much processing power with dual processor CPUs
- Compatible with effects supporting mono, stereo or surround inputs and mono, stereo or surround outputs
- Sidechain inputs allow you to control an effect parameter from any audio signal in mixing environment by busing the audio to the sidechain input.

Included Effects

- 2, 4 and 8 band EQ
- PreAmp-1 tube-simulation and distortion plug-in
- 3 reverbs
- 2 noise gates including the MasterWorks Gate with real time look ahead gating
- 2 compressors
- A synth-style multimode filter
- Echo & delay effects including a surround delay
- Modulation effects including chorus, phaser, flanger, the Sonic Modulator and more
Digital Performer continued

**Automation**

- Everything in the mixing environment can be automated in real-time, including effects parameters, track mutes/solos, effects bypassing, send levels, send mutes
- Automation can be recorded during playback, or you can draw and edit parameters in the audio graphic editor
- Support for three types of automation data: ramps, step-step, one-shot (such as waveform type - sine, square, etc.)
- Automation data is always displayed using real-world values such as decibels and milliseconds
- Mute and Solo automation allows you to bring tracks in and out of the mix in real time as you listen
- Save your fully automated mixdown for instant recall at any time, and then create an unlimited number of alternate mixdowns
- Using beat/tempo based automation you can control plug-in effects to move in perfect time with your music, from LFO synchronization to filter sweeps that land on downbeats to multiphase delays that create syncopated rhythms
- Sample-accurate 32-bit floating ramp automation insures smooth automation movements without unwanted artifacts or zipper noise
- Five advanced automation modes allow you to: Modify automation data you’ve already recorded; Scale values up or down while maintaining its current contour; Overwrite automation that’s already there - but only after you punch in
- Effects automation can be controlled in realtime via MIDI allowing you to add seemingly complex sound design elements, such as sequenced filtering effects in minutes
- Effortlessly create fader automation groups with any fader as the master
- Support for control surfaces including Mackie Control, Mackie HUI, CM Labs MotorMix, Radikal Technologies SAC-2.2 and more

**Automatic Audio Conversion**

- DP can automatically convert audio data wherever necessary to conform to the current project’s sample rate, sample format and tempo. This greatly streamlines the process of importing audio quickly into your projects.
- Automatic conversion options include:
  - Automatic sample format and sample rate conversion when importing audio
  - Automatic time-stretching of audio when placing soundbytes into a track
  - Automatic time-stretching of audio when the tempo is changed
  - Automatic placement of imported audio files in a pre-designated folder, regardless of if format conversion took place or not

**Acid File Import**

- Acid WAV files can be imported using standard drag and drop. If the Acid file has a tempo and automatic tempo conversion is enabled, it will automatically conform to the sequence tempo when placed in a track.
- REX 2 file import allows you to conform Recycled audio files to your DP sessions tempo
- ReWire support allows you to integrate outputs from Propellerheads’ ReBirth and Reason applications into DP
- Import and export SDII. Aiff and .Wav files

**Time Compression/Expansion**

- PureDSP (time compression/expansion) functions provide high quality, independent control over the duration and pitch of audio files allowing you to conform the tempo of drum loops to your project and add vocal harmonies or gender-bend effects to vocal tracks
- Both PureDSP and off-line audio processing occurs in the background so you can continue working
- The graphic time-stretching function allows you to grab the edge of a soundbite with the hand cursor and stretch it longer or shorter.

**Sampler Integration**

- The Samplers window lets you transfer samples between your project, supported sampler and the Mac’s desktop (hard drive) via SCSI using simple drag and drop
- Imported samples are automatically converted into Sound Designer II files and back to the sampler’s format when exported
- Using the integrated waveform editor, you can define a region of audio from your project, edit it, trim the edges with sample level precision, specify loop points, normalize, fade in & fade out and send it to your sampler - without ever leaving DP

**Polar**

- POLAR is a unique, interactive, RAM-based loop recording environment that allows you to layer multiple passes of audio (limited only to the amount of available RAM) without having to stop recording.
- Use POLAR to layer vocal harmonies; generate mesmerizing polyrhythms; build an entire song or just plain jam.
- When going for that ‘perfect take’ POLAR can mute the previous take for you automatically so you can concentrate on the music not on playing engineer.
- Because POLAR records audio directly to RAM, you can overdub on the fly without affecting your disk tracks.
**Adjustable PPQ**

The display resolution can be adjusted to 480, 960, 1920 or any number from 2 to 10,000 PPQ and each tick value can be displayed with up to four decimal places. For example, if you normally edit MIDI data at 480 PPQ, you can set your edit resolution to 480,000 for 1000 times more precision. With the resolution at its maximum value of 10000.0000, you can nudge a MIDI event by a little as one one-hundred millionth of a quarter note.

**Non-Destructive MIDI Effects Plug-ins**

- A variety of MIDI processing plug-ins can be inserted into the mixing board window and applied to your MIDI tracks non-destructively in real time.
- Bundled MIDI plug-ins include: Arpeggiator; Echo; Remove Duplicates (gets rid of duplicate events on the same tick); Transpose; and Shift can all be applied non-destructively and in real-time.
- Plug-in settings can be saved and recalled for use on other tracks or in other sessions.
- Realtime MIDI Effects can be ‘printed’, (destructively applied) to the track. This allows you to add effects to certain portions of a track, instead of the entire track.
MOTU

DIGITAL PERFORMER continued

Surround Sound

- A complete environment is available for creating surround recordings from start to finish including support for quad, LCRS, 5.1, 6.1, 7.1 and 10.2 surround formats
- Four panner plug-ins are provided including a localizing room simulator – support is also provided for third party panners
- Each audio track can be assigned to any surround sound format and have its own, independent surround panner
- The desired surround panner can be controlled with the panning dish available for each track’s channel strip in the Mixing Board. Panners can also be opened as separate windows (just like a plug-in)
- Panning movements are fully automatable
- MacOS Input Sprockets support allows you to connect a compatible USB joystick to your Power Macintosh and use it to control any MOTU or third-party surround panner
- Record, edit and apply effects to multi-channel tracks as easily as mono and stereo tracks – master the multichannel mix using a wide range of channel effects, including the MasterWorks Limiter and bounce the surround submix to disk or record the output of a multichannel mic setup or print a multichannel reverb
- The included Auralizer effect is a room simulator that allows you to localize a sound in space using psychoacoustic cues – design the size and absorptive characteristics of the space you wish to place your audio, then place a sound precisely in that space.

DIGITAL PERFORMER 4.0 AND MAC OS X SUPPORT

- Universal compatibility and interoperability with Mac OS X and all CoreAudio- and CoreMIDI-compatible software and hardware. No special drivers or wrappers — just install your software, plug in your hardware, and go.
- Operate multiple audio hardware systems simultaneously with Digital Performer — use your MOTU 828 FireWire audio interface together with your MOTU 2408mk3 PCI audio interface - or use any combination of CoreAudio-compatible interfaces.
- Mac OS X’s Audio MIDI Setup utility delivers universal MIDI system management. DP4 shares a common studio setup with all of your Mac OS X MIDI applications.
- Easy device remapping from FreeMIDI to CoreMIDI when you open a project created in an earlier version of Digital Performer.
- Mac OS X’s MIDI device patch lists and drum note names allow you to view the sounds in your MIDI synthesizers by name in Digital Performer’s patch lists. Build drum kits with instrument names like “808 kick” and “sizzling hat” rather than note numbers. All of FreeMIDI’s of patch lists have been ported to Mac OS X, where they can be used by any CoreMIDI-compatible software.
- Support for interapplication MIDI - Digital Performer can publish an unlimited number of MIDI inputs and outputs, allowing it to transmit and receive a virtually unlimited number of MIDI data streams to and from other CoreMIDI-compatible software.
- Mac OS X’s MIDI Time Stamping achieves a 12th of a millisecond MIDI timing accuracy on input and a 3rd of a millisecond on output when used with a MIDI Time Stamping compatible hardware including MOTU’s rack-mount MIDI interfaces.
- ReWire 2.0 support provides compatibility with Propellerhead Reason 2.0, Rebirth and all other Rewire applications. Direct MIDI I/O support allows you to sequence MIDI tracks in Digital Performer using your ReWire instruments as virtual synths.
- Enhanced QuickScribe notation transcription engine - display and print unquantized MIDI tracks as beautifully engraved music scores, instrument parts and lead sheets.

Digital Performer Version 4 features that are on the way - to be supplied as a free update soon:
- Support for Audio Units plug-ins for effects and virtual instrument.
- Support for Pro Tools hardware running under the Digidesign Audio Engine (DAE) including ProTools HD hardware.
The Cubase legacy continues with Cubase SL and Cubase SX — the most advanced and powerful versions of Steinberg’s renowned Virtual Recording Studio software to date. Designed from the ground up to take advantage of the latest breakthroughs in processor and operation systems technologies including Windows XP and Mac OSX, both Cubase SL and Cubase SX provide the potential for recording and playing back an unlimited number audio tracks (up to 96kHz) and MIDI tracks and feature a comprehensive suite of advanced editing facilities, realtime effects, mixing and automation facilities. Both applications support realtime VST 2.0 effects plug-ins and virtual instruments, and low-latency, multi-channel ASIO 2.0 compatible audio hardware allowing you to outfit your computer-based recording studio to suit your specific requirements. VST System Link functionality allows several computers to be linked together and actually perform as one fully integrated system. Cubase SX adds comprehensive 5.1 surround sound support, complete score layout features and a wider range of automation modes.

**Audio**
- Native audio – no expensive additional outboard equipment is required to record and playback audio. Plus ASIO soundcard support for low latencies.
- Up to 200 or more simultaneous playback of Audio Channels (cpu dependent)
- Recording multiple channels of audio simultaneously.
- Support for 16-Bit, 24-Bit and 32-Bit floating point audio files at sample rates of 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz.
- Record of AIFF, WAVE and Broadcast WAVE files, (Sound Designer II for Mac)
- Non-destructive Part Editor
- Destructive rendering of virtual effect processors into parts from the Project Window (with process history).
- Very quick and efficient parts bouncing
- Simple ‘Drag-and-Drop’ functionality means allows objects to be moved quickly, not just within projects, but also between multiple projects.

**Mixing and Automation**
- Adaptive and configurable track mixer selectable (wide/narrow) views.
- Up to 64 Group Channels with access to the same audio effects and EQ as normal audio tracks.
- Sample accurate automation with automation tracks for every audio, group track and plug-in.

**VST Effects and Instruments**
- Includes a wide range range of professional real-time VST effects and (VSTi) virtual instruments.
- Supports virtual instruments with multiple outputs (VST 2.0 standard)

**Sample Editing**
- Destructive Sample Editor with offline process history.
- Sample accurate zoom and in-place editing of audio directly in the Project window.
- Automatic tempo matching of audio loops with integrated Slice and Stretch functions.

**MIDI**
- Unlimited MIDI tracks and multiple MIDI recording modes: Cycle, Mix, Overdub, Step, Punch.
- Sample-accurate timing for MIDI-events. For ease of use the displayed musical resolution is set to 480ppq. If you need a higher resolution for your editing needs you can simply switch to sample resolution.
- A wide range of MIDI editors are provided including: Key (piano keyboard); Drum; Event List; SysEx and Logical. Cubase SX adds professional Score editing.
- Supports high-precision MIDI timing when using an LTB compatible MIDI interface such as Steinberg’s Midex 8.
- A Tempo Track allows you to control song tempo using a graphic editing interface.
- Sends MIDI clock and send/receive MIDI timecode (MTC).
- Extensive control surface support including Steinberg’s own Houston, Mackie Control, Yamaha Digital Mixers, Radikal Technologies SAC-2.2 and more.
The Project Window

The Project Window – provides an overview of the entire project area and allows real-time recording, playback placement, editing and automation of audio and MIDI. You can move, nudge, fade in, fade out, change volume, or crossfade parts directly from the Project Window with great ease and efficiency.

The Grid and Quantize is adjustable down to single sample resolution. There are 5 Grid modes to choose from – Grid, Event, Magnetic, Cursor and Shuffle.

Timeline Ruler
Option Positions and lengths displayed as:
- Bars+Beats – Bars|beats|sixteenth notes and ticks
- Seconds – Hours, minutes, seconds and milliseconds
- SMPTE Frame (Hours, minutes, seconds & frames) – 24, 25, 29.97, 30 fps as well as 29.97 and 30 dfps
- Samples – Samples

Non-destructive, editable crossfades

Supported Audio Formats
- Import of AIFF, AIFC, WAVE, Broadcast WAVE, WMA, MP3, REX files as well as SDII on Mac.
- Export audio to MP3, RealAudio G2, AIFF, Broadcast Wave and WAVE, as well as Windows Media Audio and Real Audio V5 on PC and SDII on Mac.
- Import/export files with sample rates of up to 96kHz depending on format.

Supported Video Formats
- MOV, QT, AVI, MPG, MPEG

Video Functions
As working in sync with the picture is an essential demand for film scoring, Cubase does not only allow playback of video files within a video window, it also provides you with a thumbnail video track for fast and easy composing to the picture and placing musical events at takes and frames.

Unlimited Undo/Redo with Offline Process History
Off-line processing of individual audio files allows effects to be ‘stamped’ onto them layer after layer. The off-line process history, allows you to jump back to any individual process such as the reverb and edit it, remove it or replace it with another effect.
The extended view adds a top zone to the standard size mixer that adds an upper zone where you can switch between views for EQ and aux-send or insert effects per channel or globally.

The Master Section features 8 insert slots plus dithering using Apogee's UV-22 HR algorithm.

Select the type of channels you want to view in the mixing console – audio, group, virtual instrument, ReWire and MIDI channels.

Complete channel setups can be copied and pasted between channels or even saved to disk and loaded into new projects – a great way to create a custom library of multiple effects or virtual instruments with effects.

Click the Edit button to open the Channel Settings window (detailed below).

Any combination of mixer channels can be freely grouped or sent to one (or more) of up to 64 sub group channels.

The response time of the meters is adjustable (fast/slow/hold).

EQUIPMENT LEASING AVAILABLE
**VST Realtime Effects Processors**

- Steinberg's Virtual Studio Technology (VST) interface allows the seamless integration of virtual effect processors and instruments into your digital audio environment. These processors run the gamut from software emulations of classic hardware effect units and instruments to never-heard-before creative processors. All functions of a VST effect processor or instrument are directly controllable and automatable.

- A complete suite of Steinberg VST effect processors is included with Cubase SL and SX and because VST is an open standard, new virtual effect processors and virtual instruments are constantly being developed by Steinberg as well as numerous third party companies including Antares, Waves, Waldorf, Native Instruments, IK Multimedia and many more.

- DirectX plug-in support is also available on the PC.

**Included VST Effects Processors**

- Multitap Delay
- Classic Delay
- Dynamics
- DeEsser by SPL
- Overdrive
- QuadraFuzz
- Chopper
- datube
- Flanger
- Phaser
- Rotary
- Chorus
- Metalizer
- Transformer
- Guungralizer
- Symphonic
- Reverb
- Reverb 32
- Vocoder
- Phatsync
- Bitcrusher
- SMPTE Generator
- 6 to 2 Mixer

**VSTi (VST Instruments)**

- VST Instruments are software synthesizers and sampler that are loaded into Cubase just like standard VST plugins.

- VST instruments can be triggered via MIDI, just like their hardware counterparts, and their audio outputs appear on separate channels in the Mixer, allowing you to add effects or EQ, just as with audio tracks.

**Included VST Instruments**

- A number of realtime MIDI effect plug-ins are included for transforming and generating MIDI events in a variety of ways.

- MIDI effects can be applied in real time to the MIDI data played back from the track or can be inserted while playing live on your MIDI keyboard - an inspiring performance tool.

- Just like any other parameter in the Cubase mixer, MIDI plug-ins can also be fully automated.

- MIDI Plug-ins Effects Include: Arpache (Arpeggiator), AutoPan, Chorder (create chords from single keys), MIDI Echo, Microtuner, Quantize, Step Designer (step sequencer), MIDI Compressor, and many more.

**ReWire 2.0 Support**

- Stream up to 64 audio channels between ReWire compatible applications, such as Propellerhead’s Reason and Rebirth, and Cubase with sample accurate synchronization. Audio outputs from the ReWire compatible application are connected via Rewire to the VST mixer, allowing VST Effects, EQ and Dynamics to be applied in real time. MIDI-streaming between applications — the ReWire application shows up in Cubase as a MIDI out port, ready to trigger. Use Cubase to control the ReWire apps transports.
Sample Editor

Even though you can do most of your editing directly within the Project window, an integrated Sample Editor is included for editing mono and stereo audio files. The Sample Editor allows viewing and manipulating of audio data at the Audio Clip level. Functions such as cutting and pasting, removing or drawing audio data is fully “non-destructive”, in the sense that you can undo changes or revert to the original versions at any point, using the Offline Process History. Any audio clip can be permanently edited and changed with full backup, plus multi-level undo and redo. A number of integrated non-destructive audio processes are provided for optimizing and even resynthesizing audio files: Acoustic Stamp, Crossfade, Envelope, Fade-Ins and Outs, Gain Change, Normalize, Phase Reverse, Pitch Shift and Timestretch, DC Offset removal, Reverse and Stereo Flip.

Sample Editor tools include: the selection tool for creating regions within an audio clip; the magnifier tool; The Pencil tool allows you to manually edit out a spike or click; and the Scrub tool which allows you to locate positions in the audio by playing forwards or backwards at any speed.

The Thumbnail display provides an overview of the whole Clip.

The Info Line shows all relevant information about the edited Audio Clip.

The Loop Editor allows you to automatically match the of an audio phrase or loop to your song's tempo by applying time compression and expansion to short audio-segments contained with the audio file.

Audio segments can be created automatically or by manually — the phrase or loop is analyzed and then segments are generated using the audio file's transients as markers.

You can then make tempo changes to your song in real-time and your audio playback will follow.

Use odd meters and loops of unlimited length when mixing.

You can combine a number of loops with different feels and tempi and conform them to your song's tempo.

Match the groove of MIDI tracks to looped audio or vice versa. Quantize the groove of looped audio.

Re-arrange grooves by exchanging single samples inside your loop.

The Loop Editor is also provides an easy auto cutting and match quantizing of single words from vocals takes.
MIDI Editing

Key Editor
- The Key Editor / Piano-roll Editor features many standard functions for manipulating MIDI note and event data. You can Draw, Move, Copy, Delete, Mute, Size, Transpose and change Velocity for note-events.
- The Multi-Lane Controller Editing functions allow simultaneous editing of various controller data sets at the same time.
- The Mathematical Curve Function (such as parabola, sine, triangle, square) allows you to draw precise Controller data curves quickly and easily.
- Step Recording allows recording events off-line by inputting notes via MIDI-in at the start position and automatically stepping these to the next Grid point (e.g. 1/16th). This allows the easy creation of musical lines that are difficult or impossible to play.

Drum Editor
- The Drum Editor features standard editing functions (Draw, Move, Copy, Delete, Mute, Size, Transpose note-events, Velocity and Controllers) as well as Drum Map support allows you to assign sound names (eg. kick, snare) to notes.
- Each sound or notepitch can have its own settings for Quantize, Output and Channel.
- Step Recording allows recording events off-line by inputting notes via MIDI-in at the start position and automatically stepping these to the next Grid point (e.g. 1/16th). This allows the easy creation of musical lines that are difficult or impossible to play.

Logical Editor
- The Logical Editor allows you to find certain MIDI events, based on defined criteria and conditions. You can then manage and edit this data using the list of available actions.
- Applications range from simple MIDI event filtering to complex tasks such as changing the scale of a piece of music from minor to arabian.

List Editor
- The List Editor allows all data (MIDI, Audio events, Automation, etc.) to be edited numerically.
- It provides an overview of the whole project so that you can easily browse through all of the project’s tracks. This allows very precise control when adjusting the ‘fine detail’ like sample-accurate positioning of multiple data types.
- The event display shows the events graphically while the value display shows the “value” of each event, allowing for easy viewing and graphical editing.
- The information available in the List Editor Includes: Event Type; Start and End position; Length; Data 1 and Data 2 (eg. pitch and modulation); Channel and Comment.
- Single and multiple events can be muted and unmuted using the dedicated Mute Tool.

ASIO
- ASIO (Audio Stream Input/Output) is a high performance, low latency audio driver architecture that forms the backbone of Steinberg's Virtual Studio Technology. ASIO was developed to deliver a truly professional audio recording solution — one that supports variable bit depths and sample rates, multi-channel I/O and synchronization — all within a native computer environment.
- ASIO is a supported standard by many leading audio hardware manufacturers including MOTU, M-Audio, Tascam, Edirol, Steinberg and many more.

VST System Link
- VST System Link is a platform independent communication protocol that provides sample accurate networking of several computers running VST System Link-compatible host applications including Cubase SX, Cubase SL and Nuendo. It enables synchronization, transport control and audio data between two or more workstations over standard digital audio cabling systems such as ADAT, TDIF, AES/EBU or S/PDIF.
- Expandability, Flexibility and connectivity for your virtual studio — exploit the DSP resources of multiple computers within a single project.

Accurate MIDI Timing with LTB
- LTB (Linear Time Base) is a multi-channel communication protocol which offers sub-millisecond MIDI timing accuracy.
- LTB is a MIDI Time Stamping technique that bypasses the computer’s operating system and thus significantly reduces latency.
- LTB is utilized by the MIDEX series of hardware MIDI USB interfaces to offer the lowest latency of any MIDI interface available.
- Supported by Cubase SL and SX as well as Nuendo.
Professional audio editing and mastering software for Windows, WaveLab 5 can handle almost any audio editing task—be it internet audio, multimedia applications, and preparing audio for broadcasting. With its unique Audio Montage window, you can create audio montages and carry out precision edits in real-time. Use fades, crossfades, volume envelopes or effects without having to wait. The full implementation of multitasking allows editing and processing in the background during playback. Even save or record while working on a different file.

WaveLab 5 features drag & drop and a customizable user interface, and you can freely scale all windows. Comprehensive CD burning capabilities, real-time audio file analysis and batch processors add to the functional depth of WaveLab 5. Also supports samplers, ASIO, WDM, a range of file formats, up to 32-bit/192 kHz resolution and real-time input and output monitoring. Finally, the latest version includes a complete set of DVD Audio mastering and authoring tools. The DVD Audio burning capabilities also include video data, DVD Audio extraction, conversion, and archiving. There is support for up to eight audio channels throughout the entire signal chain for surround recording, editing, processing and mastering, a “Smart” Video Thumbnail Track for editing audio for video, track-based insert effects, multi-channel metering, and support for Steinberg Surround Edition plug-ins.

**Features**

**Audio Montage**

The Audio Montage window is the heart of WaveLab 5. Here, audio files and sections of audio are defined, arranged and edited. Open as many clips on as many tracks as you want simultaneously in the audio montage and place, move, cut, fade or crossfade them any way you like. Crossfades, panorama, volume edits and effect send levels are calculated in real-time. You can change the “rubber band” curves with the mouse: hear and see the changes you make straight away without creating fade files that have to be calculated first.

The Audio Montage is absolutely non-destructive, as the clips are only references to the original audio files. This gives you the flexibility of being able to move, cut or delete clips. Each clip can be processed using up to ten VST effects. The sum of all the tracks then passes through the Master Section, where another eight real-time effects (VST, WaveLab, Direct X) are available. Unlimited undo/redo lets you take back any edits or changes you have made.

**Integrated Mastering Studio**

WaveLab 5 offers everything you need to give your audio the finishing touches it deserves: a graphic, editable, fully parametric equalizer, a top level reverb algorithm, comprehensive dynamics section as well as special high-end loudness optimization algorithms. Also built-in are two plugins for restoration of audio recordings, Declicker and Denoiser. Using virtual effect processors in the Master Section couldn’t be easier - you can drag & drop the plug-ins around and place them into the desired position in the processing chain. To help you compare results of different effect combinations easily, you can open several instances of WaveLab 5 at the same time.
**Burn Your CDs**
WaveLab 5.0 makes burning CD masters easy. You can set track and index markers directly in the waveform, including extremely accurate settings for codes and pauses. The integrated Label Editor lets you make your own CD labels and covers. The backup tool lets you archive your audio files to hard drives, CDs and JAZ. Also features audio-in-pause function for creating hidden tracks, 1:1 CD copying, ISO import and export, PQ sheet import, export and printing.

**Transparent File Management**
With its integrated audio database and batch processors, WaveLab 5 takes care of routine tasks. Organizing sound archives or databases is simple. These versatile tools can edit and convert audio files automatically. Using them couldn’t be simpler - just select your audio files, choose the editing functions and set your destination folder. Meta Leveler can be used during batch processing to compensate undesired volume fluctuations.

**Audio file formats**
Supported file formats include WAV, AIFF, Ensoniq Paris 24-bit, RAW (8/16/20/24 bit), AU, Sound Designer II, ulaw, MP3, Sun/Java and many more…

**Additional Functions**
- ASIO, WDM and MME driver support
- Analyze audio signals in real-time: Level/Pan, Phase, Spectrum Analyzer, FFT Meter, Wave Meter, Bit Meter
- Full real-time input and output monitoring
- High-quality virtual effect processors Q (parametric 4-band mastering EQ), Multiband Compressor, Spectralizer (Enhancer), Denoiser, Declicker, Voice Attenuator, 192 kHz Resampler
- Backup function, data CD burning, CD copy, CD label creation
- OSQ (Original Sound Quality) - lossless audio file compression
- Save several audio files in the background while you continue working
- Apogee UV22HR Dithering
- Automatic pitch recognition and pitch adjustment
- Autosplit function splits audio files into segments with a range of different criteria

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**The Complete Music Producers’ Collection**
Beginners, crossgraders, hobby musicians and users of Cubase SX and/or VST System Link alike will be stunned by this complete music production package, which includes a high-performance sequencer and five fantastic-sounding VST instruments. The package includes Cubase SE (the new music production software based on award-winning Cubase SX technology and featuring 48 audio tracks as well as full VSTi support), and SE versions of 5 great VST instruments: HALion, The Grand, Virtual Guitarist Electric Edition, D’cota and Groove Agent, all of which can be upgraded to the full versions at an time. This software collection is available for Mac and PC users at an unbelievable price.

**Cubase SE**
The complete music production suite for your studio! Cubase Start Edition combines powerful audio and MIDI recording features with professional editing and effects. Start creating your own music with a system that is fully compatible with the Cubase family of products that are used in high-class studios around the world.

**HALion**
The backing part specialist. This 4-way timbral version of Steinberg’s HALion Sampler includes the Wizoo Composer Library and features HALion and Soundfont import, letting you play literally millions of sampled instruments.

**The Grand SE**
The Grand SE is a great-sounding acoustic grand piano with 4 characters (Natural, Soft, Bright and Hard) to suit any musical style.

**Virtual Guitarist Electric Edition SE**
Steinberg’s next-generation multiple synthesis VST instrument supplies punchy basses, biting leads and massive pad sounds.

**Groove Agent SE**
Forget about tedious drum programming. Groove Agent is your personal virtual drummer, providing you with ready-to-go drum tracks, live feel and extraordinary real-time control.

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**Studio Case is Steinberg’s complete music producer’s software collection. It includes Cubase SE, HALion SE, Virtual Guitarist Electric Edition SE, Groove Agent SE, The Grand SE, and D’cota SE. Cubase SE, a powerful music workstation software application that’s based on the successful Cubase SX, offers all of the essential features found in Cubase SX and SL.**

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SONY
SOUND FORGE 7.0

Professional Digital Audio Recording, Editing and Mastering Software for Windows

The industry-standard for audio recording, editing, effects processing and streaming media creation, Sound Forge is used worldwide for production in leading recording studios, post-production houses, broadcast facilities, radio stations and home studios. It includes over 35 realtime audio effects and processes with more than 200 presets for manipulating audio, and supports a wide range of audio and video file formats, including Windows Media, RealMedia, QuickTime and MPEG 1&2. Version 6.0 expands on a decade of leadership by adding features that make it faster and more powerful than ever.

From non-destructive editing to new formats for import and rendering, Sound Forge 6.0 provides the most intuitive and efficient digital audio editing environment available for media professionals worldwide. Features include realtime non-destructive editing, modeless audio plug-in chainer, multitask background rendering, 32-bit/64-bit float/192kHz file support, enhanced time zoom, fully customizable toolbars, tabbed docking windows and DirectX plug-in manager.

FEATURES

Fast, Powerful Audio Editing

Sound Forge provides the power and flexibility you need to create a clean, professional final product—cut, paste, and delete audio with extreme speed and accuracy — down to the sample level. Sound Forge 6.0 combines fast and powerful non-destructive editing with simple drag and drop operation, allowing you to focus on your project and not time. And a fully customizable interface allows you to build projects the way you want. Also supports standard Windows keyboard commands and mouse shortcuts.

- Edit, record, process, and encode audio on your PC
- Cut, paste, move, mix, delete, mute, reverse, fade, and cross fade audio
- Drop markers during playback or while editing. Create custom marker names and use them for creating regions and loops.
- Edit files down to the sample level. Sound Forge has a 24:1 zoom ratio, allowing you to perform more precise, sample accurate editing. View, select, edit, and snap to sample selections. You have more control over your audio editing than ever before.
- Import and save 32-bit files (record them if your hardware supports 32-bit recording)
- Multitask background rendering lets you work on one file while Sound Forge processes another—saving you valuable production time. Open, play, preview, cut, copy, paste, and delete files while other project files render in the background.
- Customize your toolbars to create the interface you want for quick access to commonly used functions.

- Dock floating windows, including, regions list, playlist, keyboard, play meters, and time display, individually or on top of each other.
- Customize your toolbars to create the interface you want for quick access to commonly used functions.
- Use an unlimited number of undos/undos to restore a file to any previously edited state.
- Synchronize audio and video, frame by frame for streaming media productions and multimedia presentations.
- Create and edit ACID loops. Permanently assign root notes, number of beats, and tempo to ACIDize new loops.
- Trigger audio playback via MIDI commands from any MIDI software or hardware device.
- Use the Spectrum Analysis tool to analyze waveforms by frequency and help identify noise problems.
- Use the Preset Manager to back up, transfer, and organize your favorite presets (even ACID presets). Save time in accessing most commonly used settings.

Audio Effects and Processing

- Choose from 35 audio effects (including Amplitude Modulation, Chorus, Dynamics, Delay/Echo, Flange/Wah-Wah, Distortion, Envelopes, Gapper/Sniper, Noise Gate, Pitch Bend/Shift, Reverb, Vibrato and more) and processes with over 200 presets, including 18 DirectXAudio Plug-Ins from Sonic Foundry’s XFX1, 2 and 3 series.
- Use the Audio Plug-In Chainer to chain multiple plug-ins together and hear the results immediately.
- Use the DirectX Audio Plug-In Manager to customize folders and rename audio plug-ins.
- Apply acoustic responses of real environments such as concert halls, caves and stairways with the Acoustic Mirror plug-in.
- Wave Hammer mastering tool limits dynamic range, adds punch to recordings, and boosts signal levels without clipping.
- Audition effects before applying them and make “before and after” comparisons
- Use Time Compress/Expand to easily turn 33 seconds of narration into a 30-second spot without altering the pitch.
- Use the Spectrum Analysis tool to perform precise FFT analysis, and display resulting data in two graphical formats. Use the Spectral Graph to monitor input or playback in real-time.
Protected Work Environment
Sound Forge includes crash recovery tools, which allow you to recover lost work after a power failure or system crash. Also includes a powerful undo/redo history feature, which allows you to see your entire work history at a glance and undo edits.

Powerful Encoding Tools
- Encode your audio files for the Internet in RealAudio, Windows Media, and MP3 formats. You can even encode video, insert metadata command markers, launch web sites, display captions, and embed URL flips into your audio and video streams.
- Render audio to just about any file format including WAV, ASF, RM, MP3, WMA, and AVI, eliminating the need for another program to perform file conversions.
- Sonic Foundry’s Batch Converter 5.0 utility allows you to apply the same process across multiple files automatically.

CD Features
- Rip audio from CDs, transferring music to your hard drive, and save files in MP3, WAV, and WMA formats.
- Create your own audio CDs. Sound Forge includes track-at-once CD burning, allowing you to take your audio projects with you and share them with the world.

Video Features
- Video render options include fast video resizing, source video resampling, and video stretching.
- Sync audio with video at sub-frame accuracy. With external monitor previewing through IEEE1394 devices and more render options than ever, Sound Forge is the perfect companion to your video editor.
- If you’re new to the world of digital video, Sonic Foundry’s bundled Vegas Video LE 3.x provides the perfect introduction to professional DV and audio production.
- A professional digital video and audio multitrack editor, Vegas Video LE 3.x lets you add up to eight tracks of video, apply effects and transitions, and time-stretch audio and video. Perform edits in real-time and hear the results immediately.

Sound Forge Studio
Incorporating much of the award-winning technology found in Sound Forge, this streamlined version makes it easy to record, edit, and process audio using your PC. Record from a CD, microphone, LP, cassette, or musical instrument, and then edit your recording using a wide range of tools and effects. Live up presentations, recordings, and music using over 30 digital audio effects and processes, including 1001 Sound Effects. Create your own “Best Of” audio CDs using track-at-once CD burning.

- Edit files in real-time and hear the changes immediately. Sound Forge Studio includes dozens of editing tools including: cut, paste, move, delete, mute, reverse, crossfade, trim, normalize, fade, resample, pan, enhance, insert silence, and more.
- Sound Forge Studio includes a 10-band EQ, reverb, delay, distortion, mute, reverse, fades, crossfade, pan, volume, normalize, and more.
- Free sound effects library lets you enhance your audio with over 1,000 professional-quality sound clips - from explosions and flying saucers to animals and spooky noises. This royalty-free library is perfect for presentations, PowerPoint productions, and web sites.
Software and Hardware Media Systems for the Creative Mind

Cool Breeze's CSI (Cool School Interacts) series of CDs provide an easy-to-use and intuitive learning environment. The structure of the CSI CD allows the user to go at his own pace. A flexible interface encourages each user to customize his learning path depending on his personal needs and desires. The novice through the veteran will find great benefit in using these CDs. Made up of system designers, engineers, acousticians, programmers, musicians, composers and graphic artists, Cool Breeze offers over 20 years of combined experience in digital audio operations, training, slugging brews and systems design.

SONAR 3 CSI Starter
If you're ready to use SONAR to create amazing music but aren't sure where to begin, this interactive CD will give you the hands-on tips you need to get up and running quickly. Cover a basic production from start to finish as you develop the skills you need to get down to the business of producing a song. Movie tutorials include not only functionality, but also production techniques, special shortcuts, key commands, and before and after audio examples. Offering an easy-to-use and intuitive learning environment, sit back and watch a DAW pro show you the ins and outs and then switch over to your own DAW to try out each concept yourself! Use the quizzing feature to test your skills along the way.

Digital Performer
Get ready for a comprehensive introduction to the many features of Digital Performer 3 as well as an overview movie tutorial of new features DP 4. Sit down with a DAW pro and learn operational techniques and feature options. The CSI Browser interface includes screen element definitions with click-state pop-up simulations for the Control Panel, Tracks Window, Sequence Editor, Mixing Board, Graphic Editor, Soundbites Window, and Menus. There is a massive glossary of DAW-related terms and numerous movie tutorials. The CSI movie tutorials are designed to include not only basic functionality, but also production techniques, special shortcuts, key commands, and before and after audio examples.

Desktop Audio
A powerful guide covering the basics of sound production on a computer, whether you're into music, post-production or multimedia. Learn the many concepts, elements, products and possibilities - and gain the knowledge to put together the system that's right for you. Topics covered: goals (where the authors help you state your mission, and explain & categorize the different types of software and hardware), sound, computers & operating systems from the audio perspective, MIDI, digital audio, DAWs, plug-ins, synchronization, system set-up & upkeep, even studio furniture, and much, much more. Includes a searchable glossary of over 1,200 digital audio related terms, and is packed with swingin' music, top-notch graphics, excellent interactive examples, flow charts, pictures, animations, before and after audio examples, video, diagrams, and info-packed movie tutorials!

Digital Performer 4 CSI Master
If you've been using Digital Performer and want to get more out of your rig, then Digital Performer 4 CSI Master is the product you've been searching for! Get ready to master the key operational techniques and cool features of Digital Performer 4 with this interactive CD-ROM. If you're a new user, the Introduction topic will take you through set-up, first record, edit, and mix. The CSI movie tutorials include not only functionality, but also production techniques, special shortcuts, key commands, and before and after audio examples. Digital Performer 4 CSI Master offers an easy-to-use and intuitive learning environment. Sit back and watch a DAW pro show you the ins and outs and then switch over to your own DAW and try out each concept yourself. Use the quizzing feature to test yourself along the way!
**Pro Tools LE CSi Starter**

Are you ready to jump in and learn the basics of Pro Tools LE? This interactive tutorial CD-ROM is the ideal tool for hands-on learning! Pro Tools LE CSi Starter takes you through a basic production from start to finish and shows you how to get down to the business of producing a song. Sit back and watch a DAW pro show you the ins and outs and then switch over to Pro Tools and try it yourself. The CSi Movie Tutorial interface provides an easy-to-use and intuitive learning environment, as well as a title bar that allows you to position it on your screen and easily switch between your DAW and CSi tutorials. Pro Tools LE CSi Starter also includes a quizzing feature so that you can test your newfound skills as you go.

**Pro Tools 6 CSi Master**

Get ready to master the key operational techniques and cool features of Pro Tools 6 with Pro Tools 6 CSi Master. This hands-on, interactive CD-ROM includes a multitude of movie tutorials that include not only functionality, but also production techniques, special shortcuts, key commands, and before and after audio examples. If you’re a new user, the Introduction topic will take you through set-up, first record, edit, and mix. The CSi Movie Tutorial interface offers an easy-to-use and intuitive learning environment. View a movie tutorial in CSi, then instantly switch over to Pro Tools and try it yourself. It’s the ideal way to jump right in and put Pro Tools to work for you!

**Waves Plug-Ins CSi Master**

Whether you are a newbie or an experienced user, Waves Plug-Ins CSi Master will help you understand the functionality and operation of key Waves plug-in processors. This training and tutorial CD-ROM covers basic concepts, button and element definitions, and production techniques, and includes before and after audio examples. If you prefer the "show me" style of learning, then CSi Movie Tutorials are for you. Sit back and watch a DAW pro show you the ins and outs of driving plug-in processors in sound production. Cover plug-ins from the Waves Gold, Platinum, Native, Renaissance, Broadcast, Maxx, Transform, Masters, and Restoration bundles.

**Logic Audio**

Get more out of EMAGIC’s Logic Audio - the interactive way! Get hip to the basic concepts, operational ins and outs, and new features. CSi vol. 4 combines the Cool Breeze vibe with the practical expertise of Logic Audio pros. CSi tutorials are designed to include not just basic functionality, but real-world production techniques as well. You’ll get coverage of Logic Audio applications, system requirements, hardware and software configurations and set-up, concepts of Logic Song, Audio Objects, Instruments, Ports, Screen sets, and much more!

**Audio Plug-Ins CSi Master**

Are you ready to master the functionality and operation of virtual effects processors? Then Audio Plug-Ins CSi Master is the product you’ve been searching for! This interactive CD-ROM is full of movie tutorials covering basic concepts and production techniques to help illustrate the effective use of today’s most commonly used plug-in products. You’ll cover plug-ins from Bomb Factory, Digidesign, Drawmer, Focusrite, IK Multimedia, Line6, McDSP, Metric Halo, MOTU, TCIWorks, Waves, and Universal Audio. CSi movie tutorials provide an easy-to-use and intuitive learning environment. You’ll quickly master each concept as you watch a DAW pro show you the ins and outs of driving plug-in processors in sound production.
STUDIO MONITORS

EVENT ELECTRONICS TR5/TR8

Tuned Reference Bi-amplified Direct Field Monitor Systems

Like their names intimate, the TR (Tuned Reference) 5 and 8 monitors are precision tuned to provide flat frequency response and uncolored sound, giving you a true sonic reference for mixing. So when you mix on a Tuned Reference monitor, you know your mixes will translate accurately to other playback systems. However, you might think that this level of mix precision comes at a high price. But thanks to a powerful new ultra-efficient amplifier (actually two of them, since these are biamped systems), they are able to bring you high definition, non-fatiguing monitoring at prices so low they’re downright silly. But don’t let the cost fool you: The TR series monitors are filled with time-tested Event technology, and designed by the same engineering team behind their full line of critically-acclaimed monitors.

S·5 Active Studio Monitor

The Tapco S·5 is a compact, bi-amplified monitor that features dual high-precision internal amplifiers providing a total of 120 watts RMS (60 watts for the woofer and 60 watts for the tweeter). A 5.25” woofer delivers punchy bass output and extremely detailed midrange, while a 1” waveguide-loaded silk dome tweeter provides smooth, non-fatiguing high end. Rear panel controls on the S·5 allow for acoustic tailoring with low-frequency boost and high frequency cut/boost switches. Inputs include 1/4” TRS/XLR balanced and RCA unbalanced.

- Flat frequency response (64 Hz to 20kHz)
- 1-inch silk dome tweeter, fully magnetically shielded
- 5.52-inch polypropylene cone woofer, fully magnetically shielded
- Ported, bass reflex design for enhanced bass performance
- High strength cabinet constructed with 5/8” MDF composite and 3/4” front board with radiused edges
- 60-watt HF and 60-watt LF power amplifiers
- Front panel clipping indicators
- High-density adiabatic foam absorbs internal reflections
- Full magnetic shielding allows placement near computer monitors
- Balanced XLR and 1/4” TRS, and unbalanced RCA input connectors
- 24 dB/octave crossover at 4 kHz
- Adjustable sensitivity control
- LF equalization provides +2dB or +4dB at 65Hz
- HF equalization provides ±2dB at 5 kHz and above
- Rear panel power switch with front panel indicating LED
- Small footprint, perfect for desktop applications
STUDIO MONITORS

MACKIE HR624/HR824

6.7” and 8.75” 2-Way Active Near-Field Monitors

One of the most accurate near-field monitors ever built, thousands of recording studios and post-production facilities rely on the HR824 to reveal details that comparable monitors simply cannot resolve. Frequency response is an astonishing 38Hz to 20kHz ±1.5dB. To achieve such a sweet spot and smooth response, the HR824 uses technology not found in typical vented-box near field monitors. A cast zinc exponential waveguide disperses sound evenly and integrates the output of the HF and LF drivers. Its servo-coupled LF transducer works in conjunction with a rear-firing passive transducer to extend low octaves and eliminate vent noise. The HR824 uses two separate high-current amplifiers with discrete circuitry. And it is fully stuffed with dense foam to fully damp internal vibrations before they can escape through the LF transducer.

Employing the same acoustic technology as the HR824, but in a compact version, the HR624 is deal for rear surround sound channels in existing HR824 front left/right systems or as a main monitor system in control rooms and editing suites where space is at a premium. When using the HR624 as the primary monitor in project rooms or off-line editing suites, mixes will flawlessly transfer to an “A” room that employs HR824’s. The HR624 is flat ±1dB from 55Hz to 20kHz.

FEATURES

- Wave guide technology matches the high frequency dispersion pattern to the bass transducer for a seamless midrange transition. Furthermore, the high frequency transducer is recessed, providing acoustic alignment of high and low frequencies.
- 1” MDF (Medium Density Fiberboard) front board. Internal cavity is filled with high-density foam to absorb the internally-projected midrange before it can exit through the low frequency transducer cone.
- 1” high-frequency aluminum dome driver with ferrofluid-cooled voice coil.
- 6.7” (HR624) or 8.75” (HR824) RCF Precision low frequency transducer with mineral-filled polypropylene cone, die-cast magnesium frame and extra-long-throw voice coil are servo-coupled with a dedicated 100-watt or 150-watt amplifier.
- High frequency shelving control adds or attenuates frequencies above 10kHz by 2dB.
- 40-watt (HR624), 100-watt (HR875) high frequency amplifier. Proprietary Fast Recovery circuitry prevents latching when the amps are driven at their maximum.
- Low frequency switch with 49Hz (full range) and 80Hz roll-off settings (HR624); 37Hz (full range) 47Hz and 80Hz roll-off settings (HR824)
- Magnetic shielding
- Input sensitivity control, ideal for dealing with sensitive artists or insensitive clients
- Acoustic space switch allows bass optimization when placed freestanding (full space), against back walls (half space), and corner placement (quarter space)
- Overload LED indicates when protection circuitry kicks in
- Three mode power switch: On, Auto On (with front panel clipping LED and a signal present/power indicator), and standby
- XLR and TRS jacks accept virtually any line-level input from a mixing console
- Power cord and all inputs (balanced XLR and 1/4” TRS, unbalanced RCA) are mounted on a downward-facing, vertical panel. This allows speaker placement close to walls and eliminates strain on the connectors.

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1-800-947-5525 • www.bhphotovideo.com
**Reference Monitors**

The latest in the popular Studiophile series, the BX5 and BX8 deliver exceptional quality and professional sound. They offer 5.25” (BX5) and 8” low-frequency drivers (BX8), 1” high-frequency drivers, and 75 or 130 watts of bi-amped near-field technology at a fraction of the cost of other monitors of this quality. The 1” natural silk high-frequency drivers employ a flush design and electronic time alignment with the low-frequency driver, resulting in controlled dispersion for superior three-dimensional imaging. The tooled rear Sub-Frequency Ports reduce low-frequency turbulence and optimize driver excursion for amazing bass in a small footprint.

**Monitors that adapt to your needs**

Your monitors should be able to adapt to any changes in placement or work environment. That’s just what the BX5 and BX8 do. Since a monitor’s bass response can change depending upon proximity to walls, their Acoustic Space control section allows you to optimize their performance—no matter whether you need to put them on stands, on a bookshelf or in the corners. You can also adjust the high-frequency response to compensate for reflective surfaces like glass. The presence control gives you an automatic mid-range boost for added flexibility. There’s even a variable low-frequency roll-off to optimize response at crossover points when adding a subwoofer like the SP-8S.

**STU迪OPHILE LX4 SURROUND SOUND SYSTEM**

**2.1 Monitoring System Easily Expands to 5.1 Surround**

Consisting of the Studiophile LX4 2.1 System and Studiophile LX4 5.1 Expander, together they comprise the Studiophile LX4 Surround Sound System. The Studiophile LX4 2.1 System offers two satellites and a subwoofer for high performance 2.1 monitoring. The subwoofer contains the active crossover matrix for both the 2.1 system and the completely expanded 5.1 system. The integral 125-watt power amp houses enough power for the full surround system—60 watts for the subwoofer and 27 watts for each of the 5 satellites in the full LX4 Surround Sound System. The ported design of the subwoofer cabinet combines with the 8” woofer for a formidable bass experience. The passive satellites contain a 4” polypropylene woofer and 1” mylar high-frequency drivers.

The Studiophile LX4 5.1 Expander is a separate package comprised of three additional LX4 passive satellites. These simply connect to the subwoofer of the LX4 2.1 System to complete the LX4 Surround Sound System. Combined with their compact size, the passive design of the satellites is also a plus because many people find it challenging to route AC from the same circuit all over a room for active surround environments.