



The Professional Audio

SourceBook

Section 8

Headphones

Headphones

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AKG

HEADPHONES

HEADPHONES

632

K 55

The K 55 stand out from “good value” headphones by their truly exceptional price/performance ratio. These big, elegant headphones provide both excellent comfort and superior sound. Large 1.6” “Turbo Bass” transducers deliver an uncommonly powerful bass range and a clean high end for unparalleled listening pleasure. The closed, circumaural earphone design adds to low-end power. The unique AKG styling makes the K 55 an eye-catcher while low weight, soft circumaural leatherette ear pads, a self-adjusting headband, and flexibly suspended earphones ensure a secure, comfortable fit.



K 66

Elegant, genuine Hi-Fi stereo headphones, the K 66 combines excellent wearing comfort with superior sound and optimum price/performance. With the proven AKG self-adjusting headband, soft circumaural leatherette ear pads, low weight, and flexibly suspended earphones, the K66 conforms perfectly to your head for a comfortably fit. Unique styling makes the K 66 an eye-catcher and the semi-open earphones provide an airy sound. AKG “Natural Sound” technology uses large, high performance 1.6” transducers to ensure superior sound quality for a perfect listening enjoyment.



K 70



The K 70 is a lightweight monitor quality headphone that offers many of the features found in AKG’s professional format headphones. Modern lightweight open back headphone with full bandwidth reproduction, self adjusting headband, replaceable and washable

ear pads—all in a semi-professional cost effective format. The K70 offers premium audio quality at a price anyone can afford.

K 100



A brilliant sound performance, recyclable material construction, comfortable self-adjusting headband, changeable and easy-to-clean ear pads, changeable ASD filter, and an exclusive inner leather headband make the K100 an outstanding headphone.

K 270S

Closed design, excellent isolation and low sound leakage. The patented Parabolic Transducer Array in the K 270S has two optimized transducers in each earcup, both precisely configured in a tuned enclosure to focus sound waves at the entrance to the ear. The result is a dramatically increased perception of spaciousness, extremely accurate response, and no audible distortion at output levels far beyond the capability of single transducer headphones. This, combined with the enclosed design, makes the K 270S an ideal choice in situations where quality monitoring is required in competition with high ambient levels, such as for live or studio drummers. A micro-switch built into the headband disconnects the audio circuit whenever the headphones are removed, preventing potentially damaging feedback or leakage when “hot” headphones are suddenly exposed to open microphones.



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HEADPHONES

K 301

In the K 301, the oscillatory behavior of the diaphragm has been completely redesigned, with high internal attenuation suppressing unwanted partial oscillations. This has been made possible by a very finely structured diaphragm sound zone. Music lovers of any style will enjoy the highly accurate, balanced tonal response. Self-adjusting headband.

K 401

The K 401 provides everything rock and pop music fans want to hear: tight, powerful bass; crystal-clear sound quality; and impressive power. The low frequency performance is enhanced by the Varimotion System technology, resulting in a powerful overall sound. Self-adjusting headband.

K 501

The K 501s are concert hall headphones designed for lovers of classical music. The unique Varimotion System technology provides perfect spatial separation and an outstanding sound resolution, resulting in a superbly defined sound. Self-adjusting headband.



	K55	K66	K70	K100	K270S	K301	K401	K501	K1000
Type	Sealed, Circumaural, Dynamic	Sealed, Circumaural, Dynamic	Semi open, Supra aural	Semi open, Supra aural	Sealed, Circumaural,	Open-air, Circumaural Parabolic	Open-air, Circumaural	Open-air, Circumaural Dynamic	Dynamic Transducer w/ VLD magnet
Frequency Range	16 - 20k Hz	18 - 22k Hz	20 - 20k Hz	20 - 28k Hz	20 - 28k Hz	20 - 25k Hz	18 - 28k Hz	16 - 30k Hz	
Sensitivity	96 dB/mW	96 dB/mW	105 dB/mW	103 dB/mW	92 dB/mW	94dB/mW	94dB/mW	94dB/mW	74 db/mW (free field)
Rated Impedance	32 Ω	32 Ω	100Ω/system	100Ω	75Ω	120Ω	120Ω	120Ω	120Ω
THD:	<1%	<1%	<1%	<1%	<0.4%	<1%	<1%	<1%	
Weight (without cable)	7.4 oz.	7.4 oz.	7.8 oz.	6.7 oz.	9.5 oz.	8.1 oz.	8.3 oz.	8.3 oz.	9.5 oz

K 1000 Automated Reference Listening System



A standard for music lovers and sound purists throughout the world

Our sense of hearing detects depth and directional information in sound via a complex series of comparisons of what is heard by the two ears. Differences in sounds arrival time, as well as phase and frequency response, are used to determine where the sound is coming from. A stereo pair of loudspeakers provide this directional information for the listener. Conventional headphones make this process impossible; sounds appear on each side, but with no sense of space or depth. The K1000 was the first commercial headphone to produce the experience of proper depth and spatial orientation.

Highly accurate, close field reference monitor, the K1000 features a unique open air, radial magnet transducer to produce total acoustic transparency. Speakers are angled in parallel with the ears and do not touch them. Use as confidence monitors in acoustically inferior edit rooms. Standing waves, comb filtering, and reverberant fields are deleted from the mix perspective. Its open binaural design will not produce "in head localization". Natural time delay from the speaker is heard in each ear, providing proper depth and spatial orientation.

STUDIO HEADPHONES

AKG introduced the K 140 in 1974 and the K 240 Monitor in 1975, which became the most widely used headphones in recording studios and broadcast facilities worldwide. Generations of musicians and audio engineers use these AKG products to create great mixes, hit songs and albums cherished by millions around the world.

The new AKG Professional Studio headphones carry on the tradition of these audio tools and are a sound investment that will pay handsome returns with years of flawless sonic performance for professional recording engineers and demanding users of high quality home or portable audio equipment.

New XXL Transducers with Varimotion Diaphragm

The new XXL transducers use AKG's patented Varimotion diaphragm to ensure extremely accurate response at any listening level. This technology creates a diaphragm that is thinner, more elastic toward the outside edges for more powerful bass response and thicker, less resonant in the center for pure, accurate mids and clear, detailed highs. The large size of the transducers makes the overall sound more lifelike and three-dimensional to capture the emotional and sonic content of your soundtracks.



Gimbal-type Suspension

A gimbal-type suspension makes sure the earcups of both supra aural and circumaural models will conform to the user's ears without pressing on them. Thanks to this dynamic adjustment mechanism, you can wear the headphones for hours without feeling pinched by them.

Detachable Cable

The headphones utilize a detachable input cable for easy replacement if ever necessary. The cable and headphones use mini XLR connectors for perfect contact and secure connection. The cable is made of 99.99% oxygen-free copper and has gold-plated plugs on both ends including the screw-on 1/8" to 1/4" jack adapter for maximum signal transfer.

Self-Adjusting Headbands

To ensure your listening comfort, the Professional Studio headphones utilize a self-adjusting headband with a flexible steel structure to deliver optimum fit for your headphones without any fiddling. The structure is flexible, yet strong enough to allow bending for single ear use and is durable enough to withstand rough handling. A gimbal-type suspension ensures the earcups of all Professional Studio models will conform to the shape and size of your ears without pressing on them for hours of fatigue-free, comfortable listening.

Rugged construction, a non-twisting headband, and powerful sound allow you to use your headphones on a single ear only or wear them in any other way you may prefer. AKG Professional Studio headphones are ideal for DJ and live sound use because they are durable enough to withstand the roughest kind of handling during transport or on stage.

Perfect for Many Applications

You need good quality audio for all your listening applications—including computer, Minidisc, portable CD or DAT player – as well as in the studio. Owing to their high sensitivity and wide dynamic range, the Professional Series headphones are efficient enough to be used with these lower level output sources and still deliver the high definition sound you need when working in the studio or on stage.

For applications that require the performance and 600-ohm impedance of the original models, the famous K 141 and K 240 Monitors are still available with their fixed cables.

K 141 Monitor

A proven "workhorse" throughout the recording industry, the K 141M serves as the reference standard for supra-aural (on-the-ear) monitor headphone designs. A small coupling volume in the ear cup, combined with an "integrated semi-open" venting system behind the transducer, gives the K 141 M its trademark sound: punchy, accurate and crisply defined. The K 141 M will deliver high sound pressure levels without distortion and it is solidly built to withstand around-the-clock session use.

K 240 Monitor

A classic design which has become a standard in monitoring. The "integrated semi-open air" design incorporates a highly accurate dynamic transducer, and an acoustically tuned venting structure behind the element that produces a naturally open sound quality. The circumaural (around-the-ear) pads are designed for hours of wearing comfort, while the steel-cable, self-adjusting headband construction and single-sided pro quality audio interconnect ensure extended reliability in demanding studio applications.



STUDIO HEADPHONES



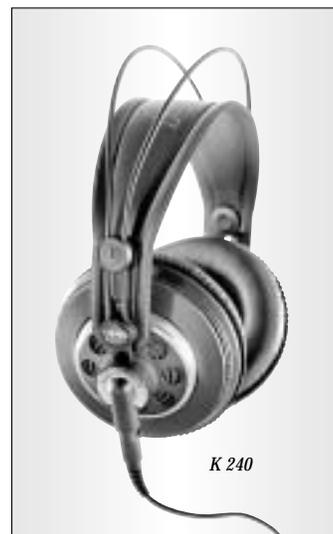
K 141

K 141 Studio

The K 141 Studio is an updated version of the classic AKG K 141 Monitor, one of the world's most popular models. Lightweight and comfortable, easy to use and listen to, the K 141 Studio features new XXL transducers with lower impedance for higher sensitivity and a more powerful sound. Supra-aural (on-the-ear) design combined with a semi-open vented system gives the K 141 Studio its trademark sound: punchy, accurate and crisply defined.

K 171 Studio

Designed specifically for monitoring in noisy environments, the K 171 Studio combines the benefits of a closed-back design with the lightweight and comfort of supra-aural headphones—an excellent choice for DJ and broadcast applications where no sound can bleed from the headphones into live microphones. Closed-back, loud and rugged design gives the K 171 a different low-frequency character than the K 141, yet maintains its comfort and flexibility.



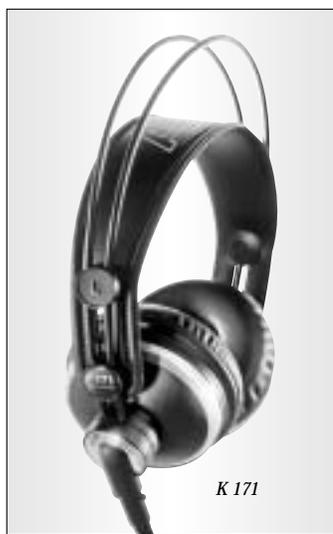
K 240

K 240 Studio

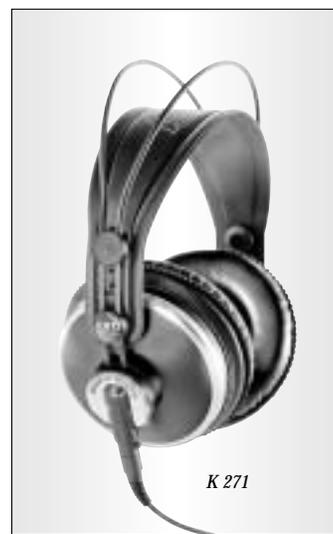
An update of the "classic" AKG K 240 Monitor, the new K 240 Studio delivers even wider dynamic range and higher sensitivity than its well-known and widely used predecessor. The secret to the semi-open K 240 Studio's sound quality is the new XXL transducers in acoustically tuned vented enclosures with circumaural (around the ear) pads. The circumaural pads envelope your ears nicely and reward you with smooth, solid bass and well-balanced, articulate mids and highs.

K 271 Studio

The K 271 Studio combines the benefits of AKG's circumaural design for extreme comfort and a closed-back design for maximum isolation from ambient noise. Thanks to its XXL transducers it sounds clean, smooth and very rich. The K 271 Studio is the perfect choice for any application where sonic bleed could cause problems such as broadcast work. It also has a switch in the headband that mutes the audio just as soon as the headphones are taken off.



K 171



K 271

	K 141 Studio	K 171 Studio	K 240 Studio	K 271 Studio
Type	Dynamic	Dynamic	Dynamic	Dynamic
Earphones	Semi-open, supraural	Closed-back, supraural	Semi-open, circumaural	Closed-back, circumaural
Frequency Range	18 to 24,000 Hz	18 to 26,000 Hz	15 to 25,000 Hz	16 to 28,000 Hz
Sensitivity	101 dB SPL/mW	94 dB SPL/mW	91 dB SPL/mW	91 dB SPL/mW
Max. Input Power	200 mW	200 mW	200 mW	200 mW
Rated Impedance	55 Ω	55 Ω	55 Ω	55 Ω
Weight (without cable)	7.9 oz	7.1 o	8.5 oz	8.5 oz
Detachable Cable	Plug-on single cable, approx. 10'			
Screw-on Stereo Adapter	Gold plated mini to 1/4" jack			

HEARO 999 AUDIOSPHERE

Digital Surround System

The HEARO 999 is a new reference for headphones monitoring. Many sound engineers, producers, and musicians use the same monitors for years so they become their definitive reference for assessing a mix. The HEARO 999 Processor allows you to take a familiar reference sound wherever you go so you can evaluate any mix meaningfully, no matter what monitors may be available on location. The beauty of this system is you can always tell whether a mix actually meets your own standards or not because the HEARO 999 Processor gives you the same familiar audio wherever you are, anytime. At last, you can carry your own proven reference monitor system with you that enables you to decide on your own whether a mix sounds good enough or not. The perfect choice for professional mixing, editing, overdubbing, etc. in the studio or on location.



Thinking of Buying a Headphone?

An indispensable tool for audio and video professionals, headphones provide a cheap, but excellent reference environment— the standard against which open-air room listening is judged. Audio reference monitoring is the most important tool producers have for deciding what changes to make to a track and for insuring consistency throughout a production in which narration, music and background audio may be recorded at different locations. By design, headphones eliminate the acoustic interaction with a room that can affect the recording of audio signals, and they reproduce exactly the sound that the audio engineer generated during the final mix-down of a recording or that the cameraman captured during the interview. Of course they offer the ultimate in portability. With a good pair of headphones, your sound will meet your standards wherever you go.

Excellent Acoustics and Great Value

Headphones reproduce sound so well because they have less air to move than do open-air speakers, and because they do it in a tightly controlled environment. Their sound quality can be five times better than that of speaker systems selling for the same price, or better yet a \$200 set of headphones can have the same specifications for fidelity (frequency response, nominal impedance, sensitivity and total harmonic distortion) as room speakers costing \$1000. In addition, headphones are a great value. They are basically small, low-power speakers, and they don't contain expensive parts that can heat up and blow the way speakers do. Ultra high reliability is also the result of new materials and new manufacturing techniques.

The Makings of a Good Headphone

Many headphones, especially consumer ones are poorly engineered and use the cheap circuitry. Headphones are miniature speakers and miniature speakers require miniature power amps. For professional applications, the headphone amp should be a separate part of the amplifier. That's because headphone amps and speaker amps require completely different specs for output power, damping factor, output impedance, slew rate and other variables. If the amplifier is not optimized for headphones, you will soon suffer from common problems like inner-ear fatigue and poor sound imaging. Poorly imaged audio will have no feeling of continuity from left to right, and no sense of depth or space.

Headphone Pad Design

Another headphone-related ailment is outer-ear fatigue. The outer ear is an amazingly delicate part of the body, and few headphones are designed with the long-term listener in mind. Even open-air foam pads can be annoying and painful when pressed against your ears for a while. The design of the headphone pads and the level of comfort they provide should be a deciding factor in your choice. Headphone ear cups generally come in three designs: "supra-aural" (the against-the ear or "open" design), "circumaural" (the around the ear or "closed" design) and inside-the-ear, or Walkman-style. Inside-the-ear headphones can be brutally uncomfortable for extended listening and are certainly a last resort for professional applications. They also feature some of the worst imaging and specs available.

Open-air supra-aural headphones don't block out sound from the outside world and are a good choice if you need to listen for the phone while working. If you don't want interruptions, buy close-ear, or "sealed", circumaural headphones—the type worn by most audio professionals for critical listening applications. Circumaural headphones also prevent audio "leakage", or the bleeding of sound into the mic while the headphones feed the listener. Enclosed headphones are ideal for while doing voice-overs for video work, because they prevent the original audio track from bleeding into the voice-over. The voice-over takes up a mixer track whose volume has to be separate from that of the background tracks captured with the video camera's mic.

AUDIO TECHNICA

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ATH-M2X / ATH-M3X *Mid-Size Dynamic Headphones*

If listening to CDs through your headphones leaves something to be desired—like richness, accuracy and comfort—plug in the ATH-M2X or ATH-M3X. Designed to reproduce the wide dynamic range found in digital program materials, their high-performance drivers and low-mass diaphragms provide maximized power handling capability with improved



frequency and transient response. The open-back ATH-M2X offers a clean, linear low-end, while the closed-back ATH-M3X is better for isolation and powerful bass. Both have soft cushioned earpads and an adjustable headband for hours of listening comfort. The M2X includes an 11.5" cable while the M3X includes a 9.8" cable with 3.5mm stereo mini-plug and 1/4" phone plug adapter

ATH-COM1 / ATH-COM2

Ideal for hands-free voice-activated computer, multimedia and DJ applications, AT's COM Series headsets offer excellent sound quality for monitoring and speaking or singing with a combination headphone plus dynamic microphone. Choose the ATH-COM1 for one-ear monitoring, or the ATH-COM2 with dual-earphone stereo sound and enhanced operator isolation. Both have neodymium dynamic microphones for crisp, accurate vocal pickup. The flexible mic boom, cushioned earpads and overall lightness provide added convenience and prolonged listening comfort.



- ◆ Flexible mic boom, cushioned ear pads and overall lightness provide added convenience and comfort
- ◆ They include durable 4.9' cable with two 3.5mm input/output mini-plugs and two 1/4" phone plug adapters

ATH-M30 *Full-Size Dynamic Headphones*



Embodying AT's latest transducer technology, the ATH-M30 offers sonic accuracy in a design engineered to provide maximum comfort for hours of listening. The ATH-M30 features a low profile, closed back design providing exceptional clarity and superior isolation in high volume listening situations. Extremely accurate, the headphone features 40mm drivers, neodymium magnets, CCAW voice coils and has a frequency response of 20Hz-20kHz.

The ATH-M30 has a lightweight and adjustable cushioned headband for maximum listening comfort. It features a gold-plated stereo 1/8" (3.5mm) connector with strain relief and professional screw-on 1/4" adapter, and a sturdy, ultra-flexible 11" cable with single-side exit.

ATH-D40FS / ATH-M40FS *Precision Studiophones*



AT's Precision Studiophones deliver premium performance, long-lasting reliability and comfort for specialized uses. Built for power and precision with large 40mm diameter drivers, neodymium magnets and CCAW voice coils, they deliver 1600 mW of power handling and very high SPL capability while maintaining exceptional clarity and accuracy. They have adjustable padded headbands and sturdy, ultra-flexible strain-relief cables made of

OFC litz wire, with convenient one-side exit. Circumaural earpieces provide maximum isolation, and can be rotated 180° to permit one-ear monitoring. The ATH-D40FS features an enhanced bottom-end response (from about 20Hz to 500Hz), making it ideal for use with predominantly low-frequency sound sources such as bass instruments and drums. The ATH-M40FS is designed specifically for professional monitoring/mixing, with a flat, extended low-frequency response to 5Hz that ensures accurate sound reproduction.

BEYERDYNAMIC

HEADPHONES WITH MICS

DT-108 / DT-109

Single- and Dual Sided Headset with Noise Cancelling Unbalanced Mic

The DT-108 (single-muff) and DT-109 (dual muff) headsets are designed for live and remote broadcasting in studio, film and TV-applications. One side is open on the DT-108 to monitor ambient sound. The headphone transducers feature extended frequency response. The protective ear cap attenuates up to 20 dB of ambient noise. Adjustable, noise-cancelling microphone provides clear, audible speech transmission.



- Highly sensitive headphone and microphone transducers
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Rugged and field serviceable construction
- Excellent comfort for long-term wearing
- Modular construction for easy servicing

DT-190

Dual-Sided Headset with Noise Cancelling Balanced Microphone



A closed headset with the addition of the DM-190 dynamic, hypercardioid microphone, the DT-190 is designed for broadcasting, monitoring and communications. Use it for commentating at sports events or for intercom systems at live concerts and other situations which require precise audio performance. The DM-190 is a balanced, noise cancelling microphone with high SPL capability. It is mounted on a

fully adjustable boom allowing accurate positioning for optimum sound and minimal explosive "p" popping.

- Noise cancelling microphone and high SPL capability (97dB)
- Excellent isolation from ambient noise
- Modular design for easy servicing
- Ruggedly constructed

DT-280/DT-290

Single- and Dual Sided Headset with Hypercardioid Dynamic Microphone

The DT-280 and DT-290 are the benchmark for low-profile, studio quality, professional on-air headsets. Lightweight with fully modular construction for easy field servicing, these closed headsets are ideal for announcement or command purposes in broadcasting applications. They feature an efficient neodymium magnet system, precision reproduction and a balanced sound. They also have a wide 10Hz-30kHz transmission range and come with 80-ohm systems.



- Soft circumaural earcups and the fully adjustable padded headband offer a high degree of wearing comfort.
- Dynamic microphone can be optimally positioned with the flexible gooseneck.
- Hypercardioid polar pattern guarantees high-gain-before feedback and noise cancellation.
- If necessary the assembly of the microphone holder can be changed so that the mic can be worn on the left or right side. The cables to the earcups and the microphone run safely in the headband.
- The connecting cable is single-sided, plug-in type with a gold-en combi 1/4"/mini jack plug.
- All parts such as earpads, headband and gooseneck microphone are easy to replace.

DT-297 PV

Dual Sided Headset with Hypercardioid Dynamic Microphone



The lightweight, closed DT 297 PV features an efficient neodymium magnet system, high reproduction precision and an optimized speech reproduction for an excellent intelligibility. Has a wide 10Hz-30kHz transmission range

- Mic can be optimally positioned with the flexible gooseneck.
- Soft circumaural earcups and the fully adjustable padded headband offer a high wearing comfort.
- The cables to the earcups run safely in the headband



BEYERDYNAMIC

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DT-150

Dynamic Studio Headphone

The DT 150 is a dynamic studio headphone for use in broadcasting, film and recording studios and other audio monitoring applications where size, comfort and performance are primary requirements. Due to its closed design it features excellent ambient noise isolation for reference monitoring. The padded headband can be adjusted for any head size.



- High long-term wearing comfort
- Rugged construction
- Extended bass response
- Modular construction for easy servicing

DT-250

Dynamic Studio Headphone

The DT 250 is a stylish, closed dynamic headphone offering excellent ambient noise isolation and a linear response designed for reference monitoring. It is suitable for all kinds of professional environments including film, sound, ENG/EFP, and other audio monitoring applications where size, comfort and performance are the primary requirements. It features an efficient neodymium magnet system, reproduction precision and a balanced sound. The soft circumaural earcups offer a high degree of comfort and excellent ambient noise insulation. The padded headband is fully adjustable and can be adapted to each head size. The main connecting cable is single-sided with combination 1/4"/mini jack plug.



DT-770 PRO

Stereo Studio Headphone



The DT770 PRO is a closed, dynamic headphone designed for professional studio applications. The rugged headband construction gives the headphone a secure fit and the reliability that is required for daily use. Features a wide 5 Hz to 35kHz frequency response and 250-ohm supplied gold-vaporized 1/8" stereo plug with 1/4" adapter.

- Closed studio headphone, equalized to meet diffuse field EQ requirements
- Innovative bass-reflex-system
- Robust spring steel headband
- Single-sided cable
- Soft head-pad
- Gold plated mini stereo jack (3.5mm) and 1/4" adapter

DT-831

Stereo Hi-Fi Headphone



Closed back Hi-Fi headphones, the DT831 features an extremely strong neodymium magnet system with newly developed magnetic circuit of super-refined steel for natural dynamics. The neutral but direct sound characteristic is an essential feature that you normally would only expect from a headphone in open design.

- Improved acoustical figures due to new computer calculated ear cups
- Acoustically patented ear pads with viscose
- Excellent diaphragm construction eliminates unwanted resonance
- Powerful, distortion-free bass response even at high levels
- Coiled cable with gold-plated stereo mini jack and 1/4" adapter
- Easy servicing, all parts replaceable.

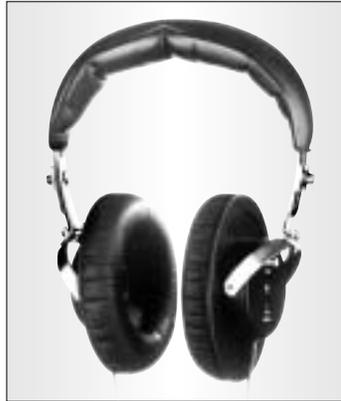
BEYERDYNAMIC

HEADPHONES

DT-48E

Designed for use in ENG/EFP applications, the DT-48 E, with single-sided cable is especially recommended for reporting applications. Long term comfort is achieved by the soft-feel headband and ear cushions which are filled with foam material while the fully adjustable headband ensures a good fit even on the most demanding locations. The fully enclosed ear cup eliminates ambient noise, essential for accurate monitoring.

- Suitable for live broadcast and studio use
- Highly efficient transducers



- For accurate monitoring of all kinds of recording
- Extremely comfortable

DT-100 / DT-102

The DT-100 headphone is widely used in audio recording and monitoring applications in studios worldwide. It offers a high degree of comfort and can be worn for hours without listener fatigue. The soft ear cushions effectively seal out ambient noise yet apply minimal pressure against the ear. The DT-102 is the identical headphone with the exception that it is a single-ear headphone. The DT-102 is used in broadcast work, recording, TV studio and theater applications where the monitoring of outside ambient information is necessary.

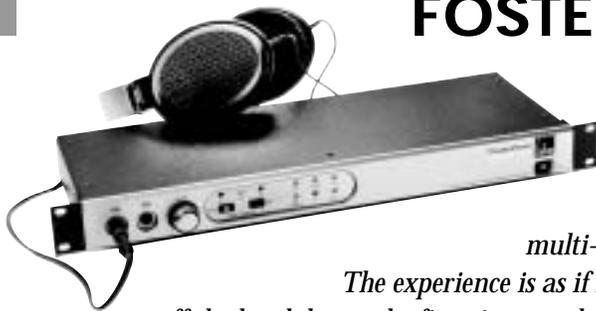


FOSTEX THEATERPHONE HSM6240

Surround Sound for Headphones

With TheaterPhone, monitoring a surround sound mix doesn't have to be restricted to studios with a 5.1 speaker setup. When access to loudspeakers is limited, you can still monitor in the "sweet spot" of a full multi-dimensional surround mix with sounds in front of and behind your head.

The experience is as if speakers were mounted up on the walls and around you. In fact, you'll take off the headphones the first time you hear it, just to convince yourself it's not coming from the room.



TheaterPhone HSM6240 features three types of virtual listening spaces approved by Dolby Laboratories: DH1 (reference control room), DH2 (livelier dubbing size room), and DH3 (larger theater-size room). Each room was meticulously modeled with impulse response measurements of real acoustic environments and combined with Lake Technology's extensive experience with Binaural HRTF Virtual Reality research. The result is an innovative technology call Dolby Headphones. Using Dolby Headphone processing, the TheaterPhone HSM6240 delivers a true 6-channel spatial surround sound experience over stereo headphones. TheaterPhone HSM6240 can be inserted into any 5.1 mix bus or stem using the six discrete balanced TRS jacks and six pass through connections provided. Post-processed stereo line outputs are also provided for additional headphone distribution amplifiers. Tri-color channel active LEDs provide a tactile look at each signal input level. When monitoring a 5.1 mix with speakers is inconvenient, inefficient, or impossible, use the TheaterPhone HSM6240 for a headphone experience that is truly three-dimensional.

- ◆ Incorporates Dolby Headphone technology—a revolutionary signal processing system that can take up to six channels of audio from any source and make it sound like it's coming from six speakers placed in a real listening room. The "in your head" effect of stereo headphone listening is replaced by a spacious, natural 5.1 soundfield.
- ◆ Realistic surround sound simulation on stereo headphones
- ◆ Supports stereo and 5.1 formats
- ◆ Choice of three listening environments
- ◆ 6 discrete input channels for five speakers plus subwoofer
- ◆ Post-processed stereo line outputs for headphone distribution amps
- ◆ 24-bit/48kHz converters
- ◆ Applications include surround sound monitoring, music production, audio post production, project studio surround, machine room monitoring, DVD quality checking, home theater and much more.

FOSTEX

T20RP/T40RP/T50RP

RP Series Professional Headphones

True and accurate headphone monitoring is crucial for recording studios, video post houses, remote broadcast facilities, project studios and DJ's the world over. Everyone wants headphones which faithfully reproduce all aspects of the program material, free from any sonic coloration and distortion. Enter Fostex's superb range of RP Professional headphones. A range of headphones which have been designed from the outset to offer the widest frequency range, to minimize listening fatigue and to allow you to accurately pinpoint and analyze all aspects of your creative output.



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Unique RP Technology

Key to the excellent and superbly transparent sound reproduction is Regulated Phase Technology, a proprietary transducer and diaphragm design that has earned Fostex more than twenty international patents. This unique technology has been applied successfully to microphones, headphones and loudspeakers used and relied upon in professional and commercial sound installations worldwide. And in the case of the T50RP, this technology has been enhanced still further in a new RP Diaphragm which uses copper foil etched polyimide film to provide superb resistance to high level input peaks of up to 3000mW.

Clarity of Sound

The headphones deliver supreme uncolored reproduction and a natural clear sound across the full frequency range. The highs sparkle, the mids are crystal clear and nothing is missing from the low-end. But it's the sonic quality at high sound pressure levels (SPLs) which really sets these headphones apart. The bass is always powerful and distortion-free even at high levels. Essential when headphone monitoring in noisy environments such as ENG recording, DJ work, and where you need to concentrate on the program material. The leatherette padded ear cushions provide excellent sound isolation and superb deep bass reproduction

Rugged Construction

Manufactured to the most exacting standards with durable, tough and rugged materials and components, RP Series headphones are built to last. They're also built for comfort. Those padded ear cushions and wide, self adjusting headbands ensure maximum comfort and fit during extended wearing periods. A nice touch is the lockable, single entry jack which minimizes cord tangles and offers excellent serviceability. Whether you're monitoring analog or digital audio sources, work in a professional or project studio, mixing live, or need a great pair of headphones for DJ applications, RP Series headphones simply do the job.

The T50RP—Why Is It So Special?

The T50RP utilizes a new development called an 'RP Diaphragm'. This unique Fostex technology employs a copper foil etched polyimide film to provide resistance to high level input peaks of up to 3000mW combined with a neodymium magnet for high sensitivity and excellent transient handling. This combination lifts quality of the T50RP's audio reproduction above that of the already superb T40RP and T20RP. In short, the T50RP offers perhaps the most natural and uncolored sound yet heard from a pair of studio headphones.

T20RP

Semi-open style—smooth vocal reproduction along with punchy low and well balanced mid/high frequencies

- Frequency Response: 20Hz - 30kHz
- Light weight for extra comfort
- Excellent transient characteristics
- Includes lockable 3m headphone cord
- Headpad supplied for extra comfort
- Ideal for professional use in commercial recording studios and DJ work

T40RP

Enclosed style for maximum feedback prevention and clear transparent reproduction of all audio frequencies

- Frequency Response: 20Hz - 25kHz
- Prevents feedback into the mic at recording sessions
- Includes lockable 3m headphone cord
- Headpad supplied for extra comfort
- Ideal for professional use in commercial recording studios and DJ work

T50RP

Damped semi-open style and unique RP technology result in extended low-frequency range plus crystal-clear mid and high frequency reproduction.

- Frequency Response: 15Hz - 35kHz
- Neodymium magnet for high sensitivity and excellent transient handling.
- Includes lockable 3m headphone cord
- Superb quality and perfect for commercial recording use

SAMSON

STEREO REFERENCE HEADPHONES

HEADPHONES

642

PH60

Designed to offer great sound in a lightweight, high style "see-through blue" design for personal stereo listening on the go, the Samson P60s use a special 34mm Mylar driver with an isotropic Ferrite magnet for a surprisingly big, open sound not typically found in these kinds of headphones. Their distinctive clear blue appearance also sets them apart.



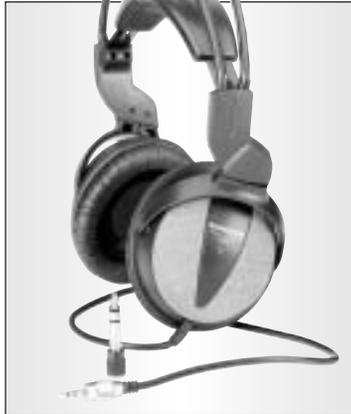
RH100

Combining professional specifications, exceptional comfort and high quality audio at a very accessible price, the RH100 headphones from Samson also use a newly designed high performance transducer along with a high output neodymium magnet and leading-edge headphone circuitry. Engineered for comfortable listening over extended periods of time and natural, uncolored audio, the RH100s sound great in any kind of studio and/or home music playback situation.



RH300

Offering unparalleled audio quality and a comfortable listening experience, Samson's mid-line RH300 headphones also benefit from the latest transducer technology along with a special driver and neodymium magnet. An open-ear design and specially designed acoustic mesh fabric provide an



enhanced ambient listening experience while reducing listener fatigue. Endowed with a wide dynamic range and linear frequency response of 20Hz to 22kHz, these phones are ideal for any number of playback situations.

RH600s



The top-line model RH600s use a specially designed, high performance driver with a thin, responsive 40mm diaphragm coupled with a high output neodymium magnet and sophisticated circuitry to provide true "reference quality" audio. Its ambient open-ear design with special acoustic mesh fabric ensures clear,

transparent sound and a comfortable listening experience. The RH600s also feature a very wide dynamic range and a linear frequency response from 20Hz to 22kHz for accurate, balanced audio reproduction.

	PH60	RH100	RH300	RH600S	CH70	CH700
Type	Supra-aural open-back	Circumaural, open-back	Circumaural, open-back	Circumaural, open-back	Closed-back design	Closed-back design
Frequency Range	20Hz to 18kHz	20Hz to 22kHz	20Hz to 22kHz	20Hz to 22kHz	20Hz to 22kHz	20Hz to 22kHz
Sensitivity	101dB	106dB	106dB	115dB	108dB	103dB
Rated Impedance	32 Ω	64Ω	32Ω	40Ω	64Ω	32Ω
Connectors	1/8" stereo mini-jack with 1/8" to 1/4" TRS phono adapter	1/8" stereo mini-jack with 1/8" to 1/4" TRS phono adapter	1/8" stereo mini-jack with 1/8" to 1/4" TRS phono adapter	1/8" stereo gold plated mini-jack with 1/8" to 1/4" TRS phono adapter	Gold plated mini stereo plug and 1/4" phone adapter	Gold plated mini stereo plug and 1/4" phone adapter



ONE HOUR FREE PARKING

AT 349 W. 34th STREET (with purchase of \$100 or more)

STUDIO REFERENCE HEADPHONES

Samson offers two different studio headphones for recording, monitoring and music listening applications: the CH700 and CH70 studio reference headphones. They feature a closed-ear design with a special mesh for clear, transparent sound. The CH700 features sophisticated, high-quality ultra-thin and responsive 40mm Mylar diaphragm drivers with high-efficiency neodymium magnets for high output and superior audio quality. The CH70 also employs 40mm Mylar diaphragm drivers with high-output neodymium magnets. Both headphones employ a wide dynamic range and linear frequency response from 20Hz to 22kHz for exceptional reproduction and a balanced, articulate sound.

CH-70

CH70 headphones are ideal for any listening and monitor application where critical sound reproduction is needed. The closed-ear design provides maximum isolation reducing unwanted bleed that can be picked up on live microphones. The CH70 employs exceptional 40mm drivers with ultra thin Mylar diaphragms and high-output neodymium magnets. The result is a wide dynamic range and linear frequency response from 20Hz to 22kHz for exceptional reproduction and a balanced sound making them a perfect choice for monitoring digital audio. The adjustable headband and lightweight design provide comfort and easy listening through the longest sessions.



CH-700

CH700 headphones are ideal for any listening and monitor application where critical sound reproduction is needed. The closed-ear design provides maximum isolation reducing unwanted bleed that can be picked up on live microphones. The CH700 employs exceptional 40mm drivers with ultra thin Mylar diaphragms and high-output neodymium magnets. The result is a wide dynamic range and linear frequency response from 20Hz to 22kHz for exceptional reproduction and a balanced sound making them a perfect choice for monitoring digital audio. The large earpiece further extends the low frequency response and the adjustable headband and lightweight design provide comfort and easy listening through the longest sessions.



Sennheiser HDC-450 / PXC-250 Noise-Cancelling Headphones

Experience high fidelity and comfort any time you travel with Sennheiser noise-cancelling headphones. Recommended for aircraft or other mass transit travel, these units feature active noise cancellation and to reduce ambient noise levels, along with Open Aire design to produce excellent sound quality in a high noise environment.

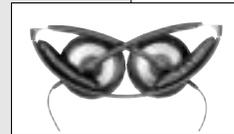
HDC-450



The PXC 250 is a closed, dynamic, supra-aural mini stereo headphone with NoiseGuard active noise compensation (attenuates frequencies below 1,000 Hz by up to -15 dB). The headphones are foldable and come with a convenient belt pouch, making them an ideal travel companion.

- 1.8m Kevlar-reinforced OFC copper cable with 3.5mm jack plug, 1/4" stereo adapter and 3.5mm double mono (for airline audio)
- High-resolution sound due to Sennheiser "Duofol" diaphragms with spiral embossing
- Bass tube for powerful, punchy bass

PXC-250



An ultra-light, open-aural active noise cancellation headphone, the HDC 451 incorporates Sennheiser's exclusive NoiseGuard technology to reduce low frequency cabin noise by up to 10 dB. Allows you to listen at much lower and safer volume levels.

- Incorporates an in-line battery box that can easily be clipped to your clothing, proving ideal for portable applications.

SENNHEISER

EVOLUTION SERIES

Sennheiser's Evolution Headphone Series offers today's recording artists and musicians an alternative in high performance headphones. Combining outstanding clarity and performance with sleek, sophisticated design and a surprisingly affordable price point, the Evolution Series is the ideal choice for up-and-coming performers who have long sought to bring Sennheiser's technical excellence and sound quality to their own home and studio listening environments. Consisting of three dynamic headphone units, the EH1430, EH2200 and EH2270 all offer durability, versatility and rich, full sound. All incorporate a 3.5mm stereo jack with a 6.3mm (1/4") adapter.

- Bionetic Design—designed to fit the shape of the ear and head, the result is comfort for extended use
- Parts can be replaced easily
- DuoFol Diaphragms for clearer highs and more solid bass response than standard diaphragms. DuoFol diaphragms also offer lower distortion

EH1430

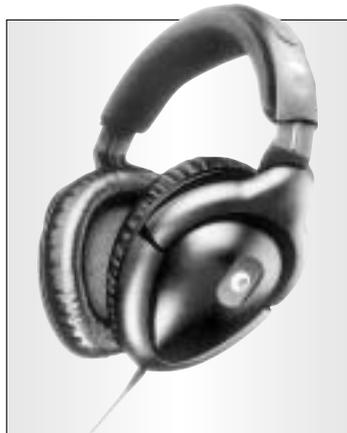
The Evolution EH1430 is an open-air, stereo headphone that can be connected to both Hi-Fi systems and personal stereos (CDs, DATs, DCCs, etc.). Ideal for rock and pop music listening, the EH1430 delivers 22Hz-20kHz frequency response and excellent bass response in a supraural design.

- ◆ Open-air, dynamic stereo headphones
- ◆ 9' highly conductive OFC cable with 1/8" stereo jack and 1/4" adapter
- ◆ Replaceable ear cushions
- ◆ 2-year warranty
- ◆ Matte black finish

EH2200

The Evolution EH 2200 is a closed, hi-fi stereo headphone that can be connected to both hi-fi systems and personal stereos (CDs, DATs, DCCs, etc.). Ideal for DJ monitoring, the EH2200 creates superb sound reproduction with powerful bass in a circumaural design.

- ◆ Closed, dynamic stereo headphones
- ◆ Detailed sound reproduction with excellent bass response
- ◆ Very lightweight for extended use
- ◆ Significant reduction in ambient noise levels, decreasing sensitivity to feedback
- ◆ Award-winning BioNetic design offers an ergonomically correct fit for maximum comfort
- ◆ Single-sided, detachable, kevlar-reinforced OFC signal cable
- ◆ DuoFol technology which fuses two diaphragm materials to virtually eliminate standing waves in the capsule
- ◆ Fully modular design with replaceable parts for long life



EH2270

The top of the Evolution Headphone Series, the EH2270 is designed for playback in recording applications. Its closed-cup, circumaural ear couplings provide total isolation, while its frequency response of 12-22,000 Hz makes it a great choice for performers and recording engineers in critical listening situations.

- ◆ Closed, dynamic stereo headphones
- ◆ Revolutionary damping element for controlled diaphragm oscillation
- ◆ Award-winning BioNetic design offers an ergonomically correct fit for maximum comfort
- ◆ Single-sided, detachable, kevlar-reinforced OFC signal cable
- ◆ Neodymium magnets for powerful dynamics and high sound pressure levels
- ◆ Fully modular design with replaceable parts for long life
- ◆ DuoFol technology which fuses two diaphragm materials to virtually eliminate standing waves in the capsule
- ◆ 2-year warranty
- ◆ Impressive, full-bodied, detailed sound reproduction with excellent bass response

SENNHEISER

400 SERIES

Open-Aire Dynamic Hi-Fi Stereo Headphones

Employing Sennheiser's famous Open-Aire construction and featuring high performance capsules, each 400 Series model is an especially good value in a full-sized headphone.



HD 457

Enjoy music at home or on the road - the HD 457 deliver wide dynamics, excellent stereo sound and warm bass for fusion, soul, funk and percussion. Convenient wind-up clip for on-the-go use.

- ◆ Open-Aire, dynamic, supraural hi-fi stereo headphones
- ◆ Ideal for home mini hi-fi systems and mobile audio sources such as CD, MiniDisc and MP3 players
- ◆ Very comfortable to wear due to ultra-lightweight design
- ◆ Rugged outdoor design with extremely flexible headband
- ◆ 3 m highly conductive OFC copper cable
- ◆ Replaceable fabric-covered ear cushions
- ◆ 2 -year warranty
- ◆ Clear sound and rich warm bass makes the HD457 ideal for soul, funk, percussion and fusion

HD 477

These open, dynamic hi-fi stereo headphones with clear, transparent sound and powerful bass reproduction are ideal for rock and pop music. Mix a trend-setting design with superlative audio and the result is the HD 477. Impress even the most discerning ear with clear, well-defined sound and a wide dynamic range. Lightweight and comfortable, you may never want to take them off! Robust design with detachable signal cable - a durable companion for any application.

- ◆ Completely new ergonomic design
- ◆ Extremely lightweight and comfortable
- ◆ Clear dynamic sound with enhanced bass response
- ◆ High-efficiency drivers - great for use with portables
- ◆ Detachable OFC copper cable
- ◆ Two year warranty

HD 490

This open, supra-aural, dynamic hi-fi stereo headphone is ideal for hi-fi and portable systems. It's acoustic properties create superb sound reproduction with powerful bass. With its ultra-light BioNetic design (headphones adapt to the shape of your head) and a dampening technique (controls diaphragm oscillation), the HD490 is an ideal choice for the most discerning music lover.

- ◆ Detailed sound reproduction with powerful bass
- ◆ Detachable, single-sided signal cable made from highly conductive OFC copper
- ◆ Duofol diaphragms to reduce standing waves
- ◆ Suitable for all types of hi-fi equipment, especially digital sound sources

HD 497

The HD 497 open, dynamic hi-fi stereo headphones deliver crystal-clear, well-defined trebles and absolute precision across all audio frequencies. Delivers crystal-clear, well defined highs and absolute precision across all frequencies. With a warm, natural, detailed sound image they not only give a brilliant performance on Hi-Fi systems, they will also bring your portable player to life! Ideally suited to all types of music.

- ◆ Completely new ergonomic design
- ◆ Extremely lightweight and comfortable
- ◆ Extended frequency response and warm, natural sound reproduction
- ◆ High-efficiency drivers - great for use with portables
- ◆ Detachable OFC copper cable
- ◆ Two year warranty



SENNHEISER

500/600 SERIES

Designed for professional and critical listening situations, the 500 and 600 Series headphones exhibit full frequency response and exceptionally transparent sound reproduction. They all feature a computer-optimized magnet system that minimizes harmonic and intermodulation distortion, exceptionally natural, spatial, and accurate sound, and detachable Kevlar reinforced OFC copper cable.

HD 580

A high-end open, dynamic HiFi professional headphone, the HD 580 is ideal for professional recording engineers, specifically those recording classical music, because it offers exceptionally natural, spatial, and accurate sound. The advanced design of the diaphragm avoids resonant frequencies. In every respect, this is a headphone of exceptional quality.

- ◆ Extremely lightweight aluminum voice coils ensure excellent dynamic response
- ◆ Neodymium ferrous magnet system ensures optimum sensitivity and great dynamic response

HD 590

Exemplifying Sennheiser's BioNetic headphone designs, the HD 590 offers a virtually unsurpassed combination of comfort and performance in an open, dynamic stereo headphone. With a weight of just 9.4 ounces and a sophisticated design the HD590 is an ideal choice for the professional monitoring of classical music recordings.

- ◆ Audiophile, Open-Aire, hi-fi stereo headphones
- ◆ Award-winning BioNetic design offers maximum comfort
- ◆ Duofol technology reduces standing waves
- ◆ Dampening element for controlling the diaphragm oscillation, optimally matches the headphones to all sound sources
- ◆ Velour ear cushions

HD 600

The HD 600 is an audiophile quality open dynamic hi-fi/professional stereo headphone. The advanced diaphragm design eliminates standing waves in the diaphragm material. The HD 600 can be connected directly to hi-fi systems of the highest quality, in particular DAT, DCC and CD players. This headphone is an ideal choice for the professional recording engineer recording classical music.

- ◆ High-quality open metal mesh earpiece covers for an extremely transparent sound
- ◆ Extremely lightweight aluminum voice coils ensure excellent transient response
- ◆ Neodymium ferrous magnet systems ensure optimum sensitivity and an excellent dynamic response



HD 500 Fusion

Creating a buzz among listeners of jazz, funk, rock and hip hop, the HD 500 fuses improved audio technology with a BioNetic design that offers unsurpassed comfort. Duofol diaphragms and special damping elements ensure a warm, yet transparent sound reproduction.

HD 570 Symphony

Perfect for the demanding classical or jazz aficionado who wants superb sound. The HD 570 has all the refinements: a combination of Duofol diaphragms, lightweight voice coils and innovative damping elements to ensure wide dynamics, fast transient response and a smooth, spatial sound reproduction. The unique BioNetic design ensures many hours of exceptional comfort.



SENNHEISER

RS SERIES WIRELESS HEADPHONES

900 MHz Wireless Headphones

Now musical enjoyment knows no limits: Sennheiser's cordless headphones free you from the restrictions of a headphone cable, delivering quality sound through walls and ceilings. The RS Series not only features dynamic sound reproduction and low noise, but also offers truly innovative design and exceptional comfort. They can be automatically recharged when stored on the transmitter. Each system easily accommodates multi-users, simply by purchasing additional headphones.

RS 30

Transparent, balanced sound makes this system an ideal choice for rock and pop music. The ideal entry into the world of cordless sound. The RS 30 wireless RF system with Open-Aire, supraural headphones offers accurate sound reproduction for "live" effects and a punchy bass response. Its transparent and balanced sound makes this system an ideal choice for rock and pop music. The ideal entry into the cordless world of sound.

RS 45

Wireless RF headphone system featuring Center Lock auto tuning, spatial sound reproduction and solid bass response. The RS 45 wireless RF system with Open-Aire supraural headphones features warm, spatial sound reproduction with powerful bass response. The transmitter automatically recharges the battery when the headphones are placed on the base unit. Center Lock auto tuning ensures hassle-free, comfortable listening.



RS 65

Wireless RF headphone system with Center Lock auto tuning and transparent, balanced sound. A switchable SRS processor turns the RS 65 into a surround sound headphone system— and a TV film into a true home theater experience. The circumaural RS 65 delivers extremely transparent, balanced sound. Velvet-like ear cushions, very light weight and Center Lock auto tuning make listening a pure pleasure. Music recordings will benefit from truly outstanding sound, immersing the listener in a real concert hall atmosphere.

RS 85

Top-of-the-line wireless RF headphone system features "HiDyn plus" noise reduction for ultra-quiet transmission, extended frequency response and unparalleled sound reproduction. Includes Center Lock auto tuning. The ultimate in wireless headphone listening! The RS 85 wireless RF system with Open-Aire, circumaural headphones features "HiDyn plus" noise reduction (used in professional wireless microphone systems) for ultra-quiet and superb sound quality, ensuring a very natural and detailed sound reproduction. Includes Center Lock auto tuning.

	RS30	RS 45	RS 65	RS 85
Frequency Response	30 - 19,500 Hz	20 - 20,000 Hz	20 - 20,000 Hz	20 - 22,000 Hz
THD	< 0.7%	< 0.7%	< 0.5%	< 0.5%
Carrier frequencies (switchable)	925.0 MHz/926.0 MHz/926.5 MHz		925.0 MHz/926.0 MHz/926.5 MHz	
Maximum SPL	96 dB	96 dB	100 dB	101 dB
Signal to Noise Ratio	> 68 dBA	> 68 dBA	> 68 dBA	> 85 dBA
Modulation	FM stereo	FM stereo	FM stereo	FM stereo
Operating time	Approx. 4 hours per battery	Approx. 4 hours per battery	Approx. 4 hours per battery	Approx. 4 hours per battery
Power Supply	BA 151 rechargeable battery	BA 151 rechargeable battery	BA 151 rechargeable battery	BA 151 rechargeable battery
Weight (receiver)	5.6 oz	5.6 oz	5.6 oz	5.6 oz

SENNHEISER

STUDIO MONITOR HEADPHONES

Optimized for reference studio monitoring, these headphones feature closed construction for maximum isolation and incredibly full response. They not only shut out ambient noise, but have also set the standard for natural sound.

HD 202 / HD 212 PRO

The HD 202 and HD 212 Pro are closed, dynamic hi-fi stereo headphones with good insulation against ambient noise and a deep bass response that make them ideal for DJs or anyone who likes to listen to modern, powerful music without disturbing others. They offer high efficiency drivers for maximum performance.

- ◆ Earcups can be removed from the headband
- ◆ Specially designed damping perforation ensures powerful bass response
- ◆ Lightweight diaphragm material with "turbine" embossing for low bass
- ◆ High levels and crisp bass for modern rhythm-driven music
- ◆ Comfortable, ultra-lightweight design
- ◆ Replaceable leatherette ear pads
- ◆ 2-year guarantee

HD 202

- ◆ Powerful neodymium magnets and lightweight diaphragms for high sound levels
- ◆ Clips to the belt: convenient cord take-up for adjusting cable length

HD 212 Pro

- ◆ Extra-thin diaphragms for precise trebles
- ◆ Well defined mid-band and spatial sound reproduction due to foam damping element

HD 25

Perfect for ENG, sound reinforcement, studio monitoring, and many other applications, the HD 25 is a closed dynamic compact professional monitoring headphone that offers high attenuation of background noise. Capable of handling very high sound pressure levels and featuring extremely robust construction, the HD 25 performs exceptionally well in high noise environments.

- ◆ Very good attenuation of background noise
- ◆ High sensitivity
- ◆ Comfortably fitting adjustable headband
- ◆ Detachable single-sided connection cable
- ◆ Frequency response: 30-16,000 Hz
- ◆ Impedance 85Ω; Sensitivity is 100 dB

HD25SP

A compact, closed back dynamic headphone, the HD25SP offers high attenuation of background noise, extremely robust construction, and is capable of handling very high SPLs (Sound Pressure Levels), making it ideal for use in noisy environments. The HD25SP is a lightweight and comfortable alternative for those who spend a great deal of time wearing headphones and need maximum isolation. While extremely rugged, the HD25SP ensures an accurate response for critical studio recording and mixdown applications. The low impedance, high sensitivity drivers exhibit unparalleled efficiency, providing sufficient volume even in applications that have classically required an additional headphone amplifier.

- ◆ 30Hz - 16kHz frequency response
- ◆ 85 ohms nominal impedance
- ◆ Adjustable headband ensures optimum fit for each user's taste
- ◆ Sensitivity is 100dB
- ◆ 10' single sided steel cable with a 1/8" to 1/4" stereo phone plug
- ◆ Two year warranty on parts and labor

HD 202 PRO



HD 212 PRO



HD 25



HD 25SP



SENNHEISER

STUDIO MONITOR HEADPHONES

HD250II

A dynamic HiFi/live sound recording headphone, the HD250II is extremely popular with live sound recording engineers and hi-fi enthusiasts alike. The HD 250 II is a closed headphone with the feel of an open design. Their precise sound reproduction, excellent THD and wide dynamics will keep you spell-bound!

- ◆ Excellent THD
- ◆ Wide dynamics
- ◆ Frequency response: 5 – 40k Hz –10 dB;
10 – 25k Hz –3 dB
- ◆ Transducer principle dynamic, closed
- ◆ Nominal impedance 300 Ω
- ◆ Characteristic SPL at 1 kHz 94 dB
- ◆ Load rating 200 mW

HD265 Linear

The closed HD265 dynamic stereo headphone is excellent for critical studio listening as well as for professional monitoring applications. The circumaural design combined with the sealed principle deliver a totally quiet listening environment, perfect for professional monitoring applications. The HD265's lightweight, copper-coated aluminum drive coil in conjunction with the dual layer "Duofol" diaphragm offers amazingly precise sound reproduction with superb bass response. Large, leatherette earpads provide maximum isolation from ambient noise while allowing maximum extended comfort.

- ◆ 10Hz- 25kHz frequency response
- ◆ 150 ohms nominal impedance
- ◆ Sensitivity is 97dB
- ◆ Fully adjustable, padded headband.
- ◆ Two year warranty on parts and labor
- ◆ 10' OFC (oxygen free copper) cable with a 1/8" to 1/4" gold-plated stereo phone plug.

HD 270

The closed, circumaural HD 270 stereo monitoring headphones can be connected to both hi-fi systems and personal stereos (CDs, DATs, DCCs, etc.). Designed for playback in recording applications, the headphone provides total isolation, while its frequency response of 12 - 22k Hz makes it a great choice for critical listening situations.

- ◆ Neodymium magnets for powerful dynamics and high sound pressure levels
- ◆ Duofol Technology reduces standing waves
- ◆ 10' single-sided, kevlar-reinforced OFC cable
- ◆ Fully modular design with replaceable parts for long life

HD 280 Professional

Designed to exceed the demands of the professional environment, the closed, circumaural HD280 boasts extremely robust construction combined with extensive features that meet the requirements of today's most demanding applications. The unique collapsible design combined with swiveling ear cups, offers maximum flexibility in any application.

- ◆ Accurate, linear sound reproduction for critical monitoring applications
- ◆ Optimum impedance ensures universal compatibility
- ◆ Collapsible, rotating earcups
- ◆ Up to 32 dB of ambient noise attenuation
- ◆ Neodymium magnets for high max. SPL
- ◆ Single-sided, coiled cable with 3.5mm mini jack with locking 1/4" adapter
- ◆ Rugged construction with user-replaceable parts
- ◆ 2 year warranty



STUDIO MONITOR HEADPHONES

All Sony Studio Monitor Series Headphones incorporate high-end materials and advanced engineering, to deliver critically clean, exceptionally clear sound for professional and high fidelity applications.

MDR-V600

Designed for high-end studio applications, the MDR-V600 features a circumaural earcup design, 40mm Aura-Nomic driver, Neodymium magnets, CCAW voice coil, reversible earcups, gold-plated plugs, cushioned headband and a folding design.

- ◆ Circum-aural earcup design in the natural shape of the human ear positions the driver unit at a correct distance from the ear canal and creates a sealed resonance chamber over the earlobe itself, reducing pressure on the ear for a more comfortable fit, especially during extended listening sessions.
- ◆ 40mm Aura-Nomic designed driver is positioned within the earcup at an angle which directly corresponds to the angle of the opening of the ear canal for the most natural listening experience possible.
- ◆ 1000 mW power handling for professional applications; use at high output levels
- ◆ Uses Neodymium magnets for maximum energy and minimum size
- ◆ Gold-plated plugs resist corrosion for high conductivity and low noise
- ◆ Reversible earcups enable single-sided monitoring flexibility
- ◆ Cushioned headband adds to wearing comfort and a better overall fit. Provides comfortable listening for hours on end.



- ◆ Single-sided OFC cable and gold plated Unimatch plug provides both 1/8" mini-jack and 1/4" TRS phono connectivity
- ◆ Folding design for easy storage.

MDR-V900

Sony's highest-performance studio headphone, the MDR-V900 features a circum-aural earcup design, 50mm Aura-Nomic driver, Neodymium magnets, 3000 mW power handling, and an Amorphous Diamond Evaporated Diaphragm for much more natural sound.

Same features as the MDR-V600 PLUS—

- ◆ 50mm Aura-Nomic designed driver
- ◆ 3000 mW power handling
- ◆ Class 1 oxygen-free copper (LC-OFC) connecting cord for maximum conductivity
- ◆ Amorphous diamond evaporated diaphragm stiffen the drivers to maximize their tonal qualities while minimizing additional weight for much more natural sound.
- ◆ Amorphous diamond evaporated diaphragm stiffen the drivers to maximize their tonal qualities while minimizing additional weight for much more natural sound



MDR-CD580 Digital Reference Headphones

A high-quality closed-front open-back headphone, the MDR-CD580 features large 40mm drivers and Neodymium magnet for deep bass, wide dynamic range and frequency response. Also offers a double-band headband, UniMatch plug adapter and detachable cable.

- ◆ 40mm drivers provide deep bass, low distortion and wide dynamic range. Frequency response extends all the way from a low 10Hz to 25kHz.
- ◆ Aura-Nomic design positions the earpads in accordance with the angle of the head.
- ◆ Anti-Resistant ABS Resin Baffle Board minimizes resonance to produce purer sound
- ◆ Neodymium magnet for maximum energy in a minimum size.
- ◆ Detachable OFC cable and gold plated Unimatch plug for 1/8" mini-jack and 1/4" phono connectivity
- ◆ Self-adjusting double-band headband provides a customized fit and increased comfort
- ◆ Cloth earpads are removable and washable



STUDIO MONITOR HEADPHONES

MDR-CD780

Digital Reference Headphones

A high-quality closed-front open-back headphone, the MDR-CD780 features large 50mm drivers and Neodymium magnet for superb audio performance. For convenience, it offers 25mm thick Urethane earpads, double-band headphone and a detachable cable.

Same features as the MDR-CD580 PLUS—

- ◆ 50mm drivers — larger than many headphones — delivers deep bass, low distortion and wide dynamic range. Frequency response extends all the way from a low 5Hz to 30,000 Hz.
- ◆ 25mm thick Urethane earpads distribute pressure evenly around the ear for exceptional comfort over extended listening sessions



MDR-CD2000

Digital Reference Headphones

In addition to large 50mm drivers and Neodymium magnet for superb audio performance, the MDR-CD2000 incorporates a Bio-Cellulose diaphragm blended with Vectran to enhance natural sound reproduction. 25mm thick Urethane earpads ensure exceptional comfort.

Same features as the MDR-CD780 PLUS—

- ◆ Bio-Cellulose diaphragm blended with Vectran enhances natural sound reproduction

MDR-CD3000

Digital Reference Headphones

The top-of-the-line, the MDR-CD3000 has a large circumaural design, floating ear cup system, organic diaphragm and earcup housing, and a unique earpad design to deliver performance so superb, it is matched only by the perfection of digital sound itself.

Same features as the MDR-CD2000 PLUS—

- ◆ Super-large 50mm drivers with CCAW (Copper Clad Aluminum Wire) construction for increased power handling capacity, light weight and superior frequency response
- ◆ Natural fiber Bio-Cellulose diaphragm is organically grown for enhanced sound velocity and natural, delicate music reproduction
- ◆ Floating earcup system improves resonance characteristics and sonic performance
- ◆ Organic fiber composite earcup housing provides a personal concert hall for the ear with high resonance suppression for pure, natural sound reproduction
- ◆ Voice coil with CCAW (Copper Clad Aluminum Wire) construction for high sensitivity
- ◆ Litz Wire connector cord made of 6N oxygen-free copper, provides exceptional conductivity for maximum signal transmission and clearer sound reproduction
- ◆ Large-sized circumaural design provides an excellent fit for any size head and hours of tireless wear.
- ◆ Unique earpad design uses a collagen-like material for a natural feeling of comfort



SONY

STUDIO MONITOR HEADPHONES

HEADPHONES

652

MDR-7502

Designed for a broad range of applications, for general sound monitoring in the studio or the field. The rugged MDR-7502 is a high quality, low-cost alternative to consumer headphones.

- ◆ 60Hz~16kHz frequency response
- ◆ 45Ω impedance
- ◆ Sensitivity is 102dB
- ◆ 30mm driver unit delivers clear, high quality sound reproduction.
- ◆ Closed-ear design for comfort and reduction of external noise interference.
- ◆ Gold connectors and OFC cord - reliable and stable signal connection and transmission.
- ◆ Stereo uni-match plug - 1/4" and 1/8" applications.

MDR-7505

The MDR-7505 is a professional stereo headphone designed to meet the needs of professional musicians, broadcasters and DJs on a budget. Their durable and flexible design makes them ideal for recording, control room and live DJ applications.

- ◆ Swivel mechanism allows for various wearing positions
- ◆ Acoustically sealed ear-cup allows for easier listening in loud environments.
- ◆ 40mm driver
- ◆ Neodymium magnet for powerful bass and clear highs
- ◆ Gold-plated, uni-match connector for universal compatibility with desk top and portable devices.
- ◆ Convenient folding design for easier portability
- ◆ Extendible, LC-OFC coiled cord for low-loss signal transmission.



MDR-7506

Due to its low impedance, the closed ear MDR-7506 does an outstanding job of cutting down background noise while providing plenty of volume in the studio or field. Ideal for use with MIDI workstations, camcorders or other equipment with less than powerful amplification.

- ◆ 15 to 18kHz frequency response
- ◆ 63 Ohms impedance
- ◆ Sensitivity is 106dB
- ◆ Rugged design - proven to be reliable in the toughest situations.
- ◆ 40mm driver unit for clear, high quality sound reproduction.
- ◆ Folding construction - compactness in storage.
- ◆ Closed ear design for comfort and reduction of external noise interference.
- ◆ Stereo uni-match plug - 1/4" and 1/8" applications.
- ◆ Gold connectors and OFC cord - reliable and stable signal connection and transmission.
- ◆ Supplied soft case for protective storage.

MDR-7509

The MDR-7509 is a high-quality stereo headphone for critical and demanding professional applications, including studio and broadcast monitoring.

- ◆ Circum-aural design covers the entire ear for tight acoustic seal and extreme comfort.
- ◆ 5~30kHz wide frequency response
- ◆ 50mm drivers for superior bass response and low distortion.
- ◆ Neodymium magnet for superior bass response and sensitivity Amorphous diamond evaporated diaphragm provides natural sound reproduction.
- ◆ Self-muting mechanism prevents leakage when headphones are taken off.
- ◆ Reversible ear-cup design allows single-sided monitoring.
- ◆ Gold-plated uni-match plug, with 1/4" and 1/8" adapters
- ◆ Convenient folding design
- ◆ Coiled LC-OFC cord for low signal loss.



EQUIPMENT LEASING AVAILABLE

NOISE CANCELING HEADPHONES

With these headphones you can actually reduce noise by up to 70% when noise canceling circuit is switched on. Noise canceling circuit actually senses outside noise with built-in microphones and sends an equal-but-opposite canceling signal to the headphones; cancels noise from 50Hz to 1,000Hz, with a maximum of 10dB noise cancellation in the critical range from 100 to 400 Hz --where the human ear is super-sensitive

MDR-NC5

By reducing outside noise by more than 70%, the MDR-NC5 lets you block out noise, listen to music, or do both at once! Ideal for sleeping on planes, trains or buses. Equally great for outdoor use, either walking on a noisy street or gardening in your yard.

- ◆ 30mm diameter driver delivers deep bass down to 30 Hz; provides outstanding dynamic range
- ◆ Uses Neodymium magnets for maximum energy and minimum size.
- ◆ Open-air headphone design provides lightweight comfort, hour after hour
- ◆ Up to 46 hours on a single AAA battery
- ◆ Folding headband and pivoting earpads allow easy storage in a briefcase or purse
- ◆ Noise canceling On/Off switch with LED indicators. Headphones continue to function for music listening even when noise cancelling is off.
- ◆ Includes a carrying pouch and airline plug adapter for compatible in-flight audio systems



MDR-NC10

The MDR-NC10 reduces outside noise by more than 70%, letting you block out noise, listen to music, or do both at once! Similar to the MDR-NC5, the MDR-NC10 uses a snug, yet comfortable Fontopia in-the-Ear design eliminating the need for headphones.



- ◆ Fontopia in-the-ear design fits snugly, yet comfortably inside the ear - eliminating the headband, so you can enjoy music while you're really moving - while exercising, skating or dancing.
- ◆ Hot-line switch to temporarily admit outside sound
- ◆ Additional noise reduction thanks to the structure of the headphones, which serve to physically block outside noise.
- ◆ Noise canceling On/Off switch with LED indicators.
- ◆ Up to 60 hours on a single AAA battery
- ◆ Detachable input cord to connect an audio source and listen to music
- ◆ Gold-plated mini-plug provides exceptional corrosion resistance, superb conductivity and low noise

MDR-NC20

Incorporating noise canceling circuitry and a closed headphone design, the MDR-NC20 provides even greater isolation from outside sound. Block out noise, listen to music, or do both at once!

- ◆ 30mm diameter driver delivers deep bass all the way down to 16Hz; provides outstanding dynamic range
- ◆ Closed headphone design provides even greater isolation from outside sound
- ◆ Folding headband and pivoting earpads allow storage in a briefcase or purse
- ◆ Detachable input cord to connect an audio source and listen to music
- ◆ Noise canceling On/Off switch with LED indicators. Headphones continue to function for music listening even when noise cancelling is off.
- ◆ Gold-plated mini-plug provides exceptional corrosion resistance, superb conductivity and low noise
- ◆ Up to 45 hours on a single AAA battery
- ◆ Includes a carrying pouch and airline plug adapter for compatible in-flight audio systems



HEADPHONE AMPLIFIERS

HEADPHONE AMPLIFIERS

Symetrix 304



This stereo input, four output amplifier drives headphones of any impedance. Used in broadcast, installed sound, and recording applications, high voltage technology provides 6dB volume increase over most competing units. Compact half rack chassis permits 8 channels in one rack space.

- ◆ Individual volume controls for each output, master input volume.
- ◆ Stereo or mono operation, balanced or unbalanced input.
- ◆ Pass Thru jacks permit daisy-chaining of multiple units.

Shure FP-22 Headphone Amplifier

The FP-22 is a battery-powered stereo headphone amplifier that provides headphone feeds from any audio input source. It has the unique capability of monitoring mono, stereo and mixed mono and stereo inputs. It monitors and combines these signals in the headphones without affecting the original signal. With 81dB of gain, it can monitor a wide range of signal sources in many different configurations. Ideal for field production, studio recording and trouble shooting applications.



- ◆ Loop through 1/4" stereo phone jacks (can be internally switched to become separate left and right inputs).
- ◆ Overall headphone balance control, overall stereo/mono switch for headphones.
- ◆ Independent control of headphone volume as well as loop-through volume
- ◆ Balanced loop through XLR connectors are mic/line switchable. A 30dB pad attenuates loud line level sources.
- ◆ 1/4" and 3.5mm stereo jacks
- ◆ Powered by 9v battery or external 12-24v DC power supply.

Behringer HA4600 Powerplay Pro 4-Channel Stereo Headphone Amplifier



Developed for the most demanding broadcast, digital production and professional recording applications, the HA4600 is ideal as a reference unit to assess the quality of a final mix, and as a distribution amplifier for the addition of playbacks in studio use. The HA4600 offers premium sound quality even at maximum volume and houses four independent high-power stereo amplifiers each with a stereo aux input, mono/stereo and left/right mute switches, balance and volume controls and more, plus numerous master features, in a single rack space.

- Three outputs for each channel (one front, two rear) enable connection of up to 12 headphones.
- Ultra musical 2-band EQ per channel
- Independent input/aux sections provide up to four stereo mixes.
- Stereo aux inputs for each channel permit the inclusion of additional sound sources.
- Adjustable direct in on the front panel for additional stereo signal source.
- Paralleled main outputs allow cascading of several HA4600's
- 8-digit LED output meters for each channel enable precise level control.
- Servo-balanced, gold-plated XLR and 1/4" TRS inputs and outputs

Fostex PH-50 Headphone Amplifier

The PH-50 is a remarkably quiet headphone DA (distribution amplifier). Each output has its own amplifier



as well as its own level control - so individual requirements can be met with ease. Multiple PH-50s can also be cascaded to handle a large number of listeners making it ideal for orchestral, multimedia, education and trade show applications.

The PH-50 is especially handy in the studio environment because an output from the mixer can send a talkback signal to the Aux input (complete with level control) of the PH-50 & be distributed to all headphone outputs. This great cue system makes for more effective communication between engineer/producer & musicians.

- 5 headphone outs - each with its own amplifier
- Each input routes to its direct output, plus Aux 1 source (cue feed)
- Multiple inputs: balanced XLR, phone, unbalanced RCA jacks
- +4dBu or -10dBV switchable for balanced inputs
- Individual level controls with peak reading LED
- Stereo or mono input select
- Cascade inputs & outputs for 'daisy chaining' units
- Aux In with level control for cue feed from main mixer
- Freq. response is 30Hz - 20kHz

Four Stereo Headphone Amplifier

Four people want to listen to the same mix under headphones. Simple, just take the HC 4, plug in, turn on, adjust your individual volumes, and groove.



- ◆ Master stereo Inputs which can be used to drive the four stereo headphone amplifiers.
- ◆ A Mono switch is provided on the front panel to drive both channels of all four amplifiers from a common mono source.
- ◆ Delivers up to 200 milliwatts into headphones with rated impedances between 32-600 ohms (depends on the exact impedance of the headphone in use and the number of headphones connected to the unit).
- ◆ Under most conditions, the HC 4 produces sound pressure levels in excess of 120 dB. This level is more than adequate for most listeners.

HC-6 Six Stereo Headphone Amplifier



Master stereo Inputs which can be used to drive any or all of the 6 stereo headphone amplifiers. A Mono switch is provided on the front panel to drive both channels of all 6 amplifiers from a common mono source.

Featuring six stereo headphone amplifiers, the HC 6 performs a number of necessary tasks, not all of which are headphone related. The HC 6 provides

- ◆ Six individual unbalanced stereo inputs are available to drive any individual amplifier from a separate stereo source.
- ◆ Under most conditions, the HC 6 produces sound pressure levels in excess of 120 dB. More than adequate for most listeners.
- ◆ Outputs for all six channels are provided on the front panel and on the rear panel.
- ◆ Two pairs of headphones may be driven from each channel.
- ◆ Inputs can be converted to mono balanced Inputs through internal jumpers if required.
- ◆ Delivers up to 450 milliwatts into headphones with rated impedances between 32-600 ohms. The precise amount of power depends on the exact impedance of the headphone in use and the number of headphones connected to the unit.

SAMSON S•PHONE

Four-Channel Headphone Mixer/Amplifier

The S•Phone is a versatile single rack space four channel headphone amplifier, loaded with advanced features that provide tremendous flexibility for monitor and cue mixing. The Master Input features an input



level and LED meter to control and display the overall stereo input. A convenient Stereo Auxiliary input is provided on each channel allowing individual line signals from direct or buss outputs to be mixed with the main stereo input. A Balance control adjusts the ratio of the Main and Auxiliary signal or the left to right balance (based on the setting of the ST/2CH switch) so that each headphone mix can be further tailored for a particular listener's individual needs ("More Me").

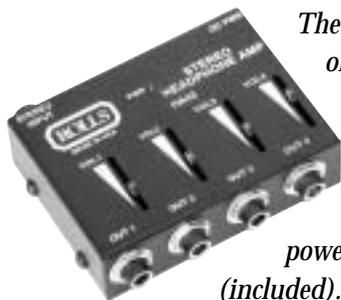
- ◆ Two master stereo inputs plus stereo link output
- ◆ 8-segment LED metering on each channel and master
- ◆ 2-band EQ on each of the four channels
- ◆ Three headphone outputs per channel (one front and two rear panel) with an overall volume control and individual level meters.
- ◆ Auxiliary input with balance control provides four channels of "More Me" mixing
- ◆ Mute and Stereo/2-channel mode switches on each channel
- ◆ Maximum output power on each channel (regardless of headphone impedance)
- ◆ Three-year warranty

ROLLS

HEADPHONE AMPLIFIERS

HA-43

4-Channel Headphone Amp



The HA43 is for expanding or generating headphone channels. It has a 1/4" stereo input, 4 volume controls, 4: 1/4" stereo output jacks and is powered by an AC adapter (included). The HA43 has a 20Hz - 20K Hz response, small size, and is very easy to use.



PA-71 7-Watt Amp

The PA71 Plus mixes an XLR microphone signal with stereo (mixed to mono) RCA signals. The combined signal is sent to

spring loaded output terminals via a seven watt power amplifier. The unit also features a 1/4" Line/Powered output. The XLR input features switchable 12v DC phantom power. This PA-71 PLUS is deal for small room applications where a simple mix of a mic with a cassette or CD player is needed.

RA-53 5-Channel Headphone Amplifier

The RA53 is a five-channel headphone DA (distribution amplifier) with a variety of input options. There are four different ways to send a master mix to the RA53; Discreet 1/4" Right and Left inputs, Right and Left RCA jacks, a 1/4" stereo TRS plug connected to the Right input,



or a 1/4" mono TS plug connected to the Left input. In addition to the four master mix input configurations, three separate mixes can be monitored using the main inputs and the two Insert jacks on Channels 1 and 2. Inserting a 1/4" TRS jack into Inserts 1 and/or 2 interrupts the master signal, sending different mixes to Channels 1 and 2, leaving the master mix on Channels 3 through 5.

◆ A 1/4" Link Input/Output jack is provided for connecting two RA53s together, allowing up to ten stereo channels of headphone monitoring.

◆ Each channel has a Level control and a stereo 1/4" output jack.
◆ The RA53 is loud, has plenty of gain for operation in noisy environments, and works with most any headphone impedance.

RA62HA 6-Channel Headphone Amplifier



The RA62HA is a six-channel headphone amplifier for high quality audio

monitoring. Since the Mono/Stereo switch is after the pan control, it will mix 2 Mono signals and their balance can be adjusted with the Pan control. Up to six individual monitor mixes may be listened to via the rear panel insert jacks. There are two auxiliary inputs (right and left) on the rear panel.

◆ 6 Headphone outputs with level controls
◆ 6 Insert jacks for separate use of channels

◆ Up to one-half watt output per jack
◆ Pan control

◆ Stereo/Mono switch allows mixing 2 mono channels
◆ Front and rear input jacks

◆ DC to 30kHz response for accurate sound



HEADPHONE AMPLIFIERS

PM52 Headphone Tap



The PM52 is for connecting headphones to a speaker line. The 1/4" mono/stereo loop jacks are for connecting many boxes in series. There are 2 headphone jacks and volume control. The PM52 uses the speaker line signal for power, and uses no batteries.

The PM50s/PM50sOB Personal Monitor Amplifiers

The PM50s and PM50sOB mix a microphone signal with a line-level stereo monitor signal to two headphone outputs. The microphone signal is passed through (hard-wired for no signal degradation) to a mixer or pre-amplifier. They are ideal for performers who need to monitor their own signal, such as their vocal, with the main mix.

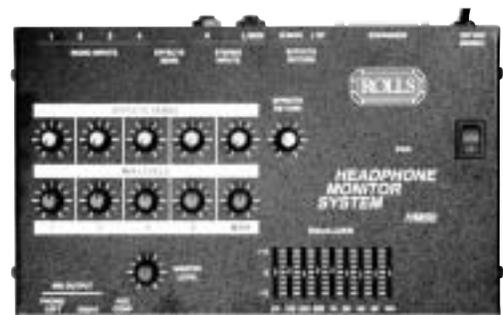


- ◆ Both units feature a monitor level control, mic level control, mic In and pass through XLR jacks, two headphone output jacks, and a stereo TRS 1/4" monitor input jack.
- ◆ The ideal monitor tools for drummers who need to hear a click track, choir singers who need to hear themselves, etc. Also useful as a line tester for troubleshooting an audio system.
- ◆ The PM50s works on AC only and includes an AC adapter. The PM50sOB can be powered via 9 volt battery or AC with the optional PS27 AC adapter.

HM Series

The HM Series headphone mixing system offers a great-sounding, cost effective and flexible way to provide custom monitor mixes in recording and live sound environments. The combination of unique functions and signal processing add functionality and convenience to any single or multiple-user monitoring application. The system provides each musician with six volume controls: four monaural (for mixer channels or busses), plus one for an overall stereo mix and one for a stereo effects return.

- ◆ The HM60 master unit can stand alone or serve as a front end for HM59 and/or HM58 remotes.
- ◆ The remotes come with a 25' DB25 MF cable and can be "daisy chained" around the stage or studio as desired. The DB25 cable is a standard 25 pin computer serial cable and is available in several lengths.
- ◆ The HM60, HM59 and HM58 units are ideal as low distortion headphone drivers for the most critical listening situations.
- ◆ The HM57 Headphone Monitor interface provides an inexpensive solution for getting the audio out to the HM59 and HM58 Remotes.
- ◆ They have mixing capabilities, as well as important signal processing functions to provide a clear and comfortable listening environment.
- ◆ The HM60 and HM59 each have a nine-band graphic equalizer, and the HM58 has Bass, Mid, and Treble controls.
- ◆ Each unit employs a Rolls 2:1 AGC compressor to provide even signal dynamics.
- ◆ In addition to providing high current differential buffered signals, the HM60 and HM57 also provide power and ground to the HM58 and HM59 remote mixers.



- ◆ The units can be clamped to any mic stand using the optional MSC106 Microphone Stand Adapter.
- ◆ They are housed in rugged painted steel chassis, use only the finest quality components, and come complete with a limited One-Year Warranty.

FURMAN

HA-6AB

Headphone/Monitor Amplifier

The HA-6AB is an economical 20 watt per channel stereo amplifier.

However, unlike a conventional power amp, it has six headphone outputs (stereo phone jacks) on the front panel, each with volume control.

When used for overdubbing or rehearsal, this provides more than adequate loudness in all headphones (even older low-impedance models), and allows each musician to set his or her own comfortable volume level. When the overdubbing is complete and the musicians remove their headphones, the HA-6AB can power the tape playback through either (or both) of two sets of studio monitor speakers.



- ◆ Combination headphone amp and a conventional power amp—powers headphones and speakers for added space/cost-savings.
- ◆ Utilizes an efficient toroidal power transformer for silent operation and low magnetic leakage,
- ◆ Two balanced XLR and two unbalanced 1/4" phone inputs
- ◆ 6 headphone outs, each with volume control
- ◆ With 20 watts-per-channel the HA-6AB can drive headphones of any impedance to their full rated listening level, and do so with minimal noise and distortion.

- ◆ Just right for the small "cube" reference speakers used in most recording studios as a comparison with the main control room monitors—the HA-6AB powers them without overpowering them.
- ◆ Convenient front panel input level control.
- ◆ Switches for two sets of speakers
- ◆ Automatically switches to mono mode when right channel is not used
- ◆ Overload and signal-present LEDs for each channel; ground lift, power-on indicator
- ◆ Provision for remotely controlling volume

- ◆ Fully protected against thermal overload, it can also withstand a short circuit on any or all outputs for an indefinite time without damage.

Optional HR-2

Headphone Remote Station

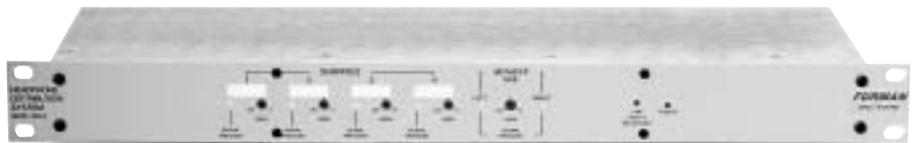
Designed for the HA-6A, the HR-2 is a compact, unobtrusive box that clamps to a mike stand or belt, providing two headphone jacks, each with its own volume control. Any number of HR-2 stations may be connected to a HA-6A using standard mic cables. Comes with snap-on, snap-off mike stand clamp.

HDS-6 / HR-6

Headphone Audio Distribution System and Remote Mixer

The HDS-6 with the HR-6 offers a great-sounding, cost effective and flexible way to provide custom mixes for up to sixteen people in recording and live sound environments. The combination of unique functions add unprecedented functionality and convenience to any multiple-user audio application.

The system consists of two components: the rackmount HDS-6 Audio Distribution System, and one or more HR-6 remote mixers. Linking them is as easy as plugging in cables — multiple HR-6's are simply daisy-chained together. A pair of 25-foot linking cables is included with each HR-6. For applications where daisy-chaining is not practical, a twelve port or larger ethernet patch panel can be wired to allow multiple HR-6 units to connect from a central location. Up to eight HR-6 remote mixers can be linked to an HDS-6, and two pairs of headphones may be plugged into each HR-6.



EQUIPMENT LEASING AVAILABLE

HDS-6 / HR-6, continued

HDS-6

- ◆ Every performer in a studio or live sound setting can now have a personalized mix without any adjustments at the board. Perfect for use as a headphone system in the studio, plus drives powered monitors in live sound applications.
- ◆ HDS-6 provides gain trims and overload LEDs for each input, ground lift and on/off switch, and system status LEDs
- ◆ The HDS-6 connects to the mixer/console to provide interface and power supplies to drive a group of HR-6 remote mixers. Trimpots are provided on the front panel to adjust input levels.
- ◆ Ideal as a low distortion headphone driver for critical listening situations. In addition to providing high current differential buffered signals, it also provides power and ground to the HR-6 remote mixer.

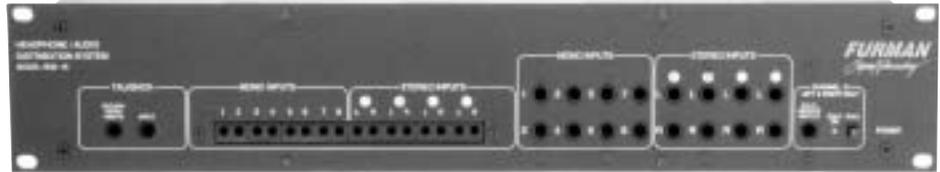
HR-6

- ◆ The HR-6 is a compact six-channel, five-pot remote mixer that clamps to any mic stand. When used with the HDS-6, the HR-6 allows musicians to customize their own headphone or monitor mix, and the engineer doesn't have to touch the board.
- ◆ A "Submixes Included/Excluded" button mutes the four mono pots, allowing only the stereo source to be heard, without having to alter the HR-6's four monaural settings.
- ◆ The HR-6 mixer provides each musician with five volume controls: four monaural (for mixer channels or busses), plus one for an overall stereo mix or a stereo effects return
- ◆ 25-ft. linking cables are included with the HR-6, as is a universal mic stand clamp

HDS-16 / HRM-16

Headphone Audio Distribution System and Remote Mixer

An enlarged and enhanced version of the HDS-6/HR-6, the HDS-16 Headphone Distribution System and HRM-16 Personal Headphone Mixer are designed to function equally well for both live (in-ear or stage monitors) and studio applications, allowing greater flexibility and ease for both the user and the engineer.



The HDS-16 with the HRM-16 cleanly routes 8 mono and 4 stereo signals to remote mixing locations. Up to eight HRM-16's can be connected to a single HDS-16, allowing as many as sixteen users (two per each HRM-16) to customize eight different mixes. A unique talkback system allows each user to communicate with other users and the main mixing location. Additionally, a SOLO system allows the engineer to mute all but one stereo send from the mix location—very handy for reviewing recent takes or rough mixes. Additional HRM-16 features include local effects send/return, line out, overall bass/treble controls, talkback level, and a master level control.



HDS-16

- ◆ Provides full patching functions on its front panel via 1/4" and TT input jacks.
- ◆ Provides power to drive the HRM-16. In addition, it includes two 1/4" jacks for the two-way talkback functions, and a SOLO REMOTE switch with an indicator that allows muting of all but one stereo feed at all HRM-16's—ideal for isolating tracks for critical listening without having each HRM-16 user turn down all but one channel.
- ◆ The rear panel includes six Centronics 50-pin connectors to link up to six HRM-16's.
- ◆ Talkback system is configured two ways:
 - Allows the talkback mic on each HRM-16 to be fed to all of the other HRM-16 units as well as the HDS-16.
 - Allows communication to the HDS-16 only. This is useful for stage use where the user's talkback mic shouldn't be fed into all of the monitors (including the users).

HRM-16

- ◆ Attaches to a mic stand with included hardware. Includes flexible 25-ft. cable that can be extended or routed through walls and daisy chained to other HRM-16s.
- ◆ The eight mono and four stereo signals have level controls.
- ◆ Each mono channel also has a pan control and an effects send control which feeds its own rear panel 1/4" send/return jacks; the affected signal is returned into the mix and controlled via a stereo effects return knob.