B&H
PHOTO - VIDEO - PRO AUDIO

The **Professional Lighting** SourceBook

for **Photo, Video, Cine & Theatrical**

Section 11

INTRODUCTION
TO LIGHT METERS

Incident Measurement

Reflected Measurement
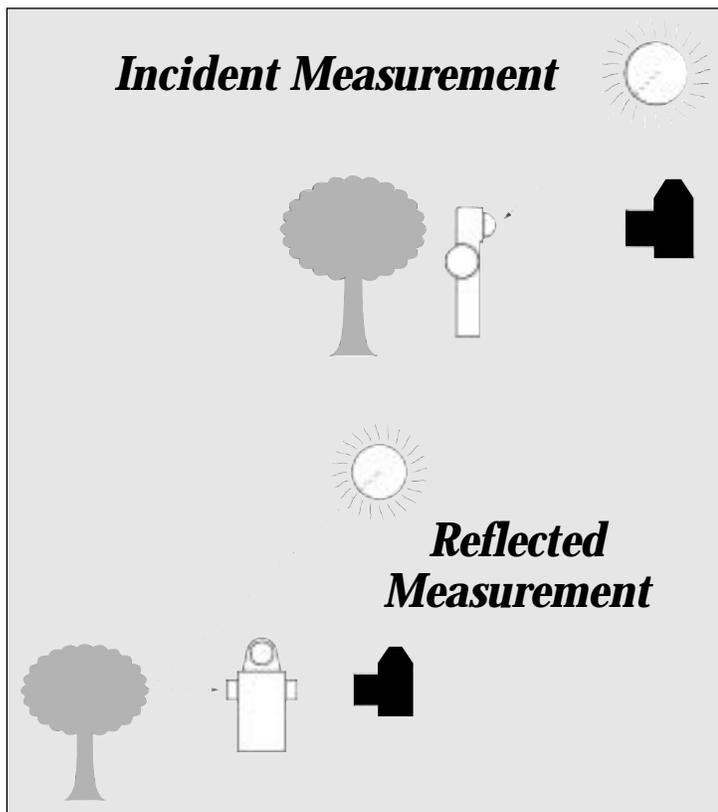
Choosing Hand Held Exposure Meters

Hand-held exposure meters measure light falling onto a light-sensitive cell and converts it into a reading that enables the correct shutter speed and or lens aperture settings to be made. Hand-held exposure meters come in many variations, each with specific benefits. By using the appropriate meter for your specific needs, you can be assured of consistent professional results.

Incident vs. Reflected

The two distinct techniques of measuring light, incident and reflected, each have their own advantages in different situations. Hand held meters can give you both capabilities, along with features not found in even the most advanced cameras with built-in meters.

The 18% Neutral Gray Standard

Light meters are designed to measure light in a consistent way. They cannot see the subject and interpret it as a photographer can. For example, a light meter cannot distinguish a black cat from a white cat, a red balloon from a blue balloon, nor textured powdery white snow from a shiny white auto paint finish. Given the same lighting situation, each of these objects would reflect a different amount of light.

Reflected measurements would indicate different exposures for each object. Incident measurements would indicate the same exposure for each object, to render a consistent exposure. Light meters are calibrated to assume that all subjects are of average 18% reflectance, or neutral gray. The use of the 18% neutral gray standard allows a reflected light meter to render correct readings for "average" subjects in "average" lighting situations. (The value of 18% neutral gray is also referred to as Zone V in the Zone System, an advanced black and white exposure method.)

Incident Metering

The incident meter is aimed at the light source and measures the light source falling directly on a scene and is not influenced by the reflectance of the subject being photographed. For more precise control of the photograph, incident meters are also used to measure various levels of light from multiple sources falling on separate parts of a scene.

Using Incident Meters

Incident metering measures the intensity of light falling on the subject and gives accurate and consistent rendition of the tonality and contrast regardless of reflectance, background, color, and shape. *Subjects that appear lighter than gray will appear lighter. Subjects that are darker than gray will appear darker. Colors will be rendered accurately. Highlight and shadow areas will fall naturally into place.*

NOTE: Most light meters allow for both reflected and incident light readings.

Advantages of Incident Measurement

Incident meters measure accurately and consistently and are not affected by variances in reflectance of the subject or scene. Because of this, incident meters give the most accurate exposure for the majority of situations and subjects.
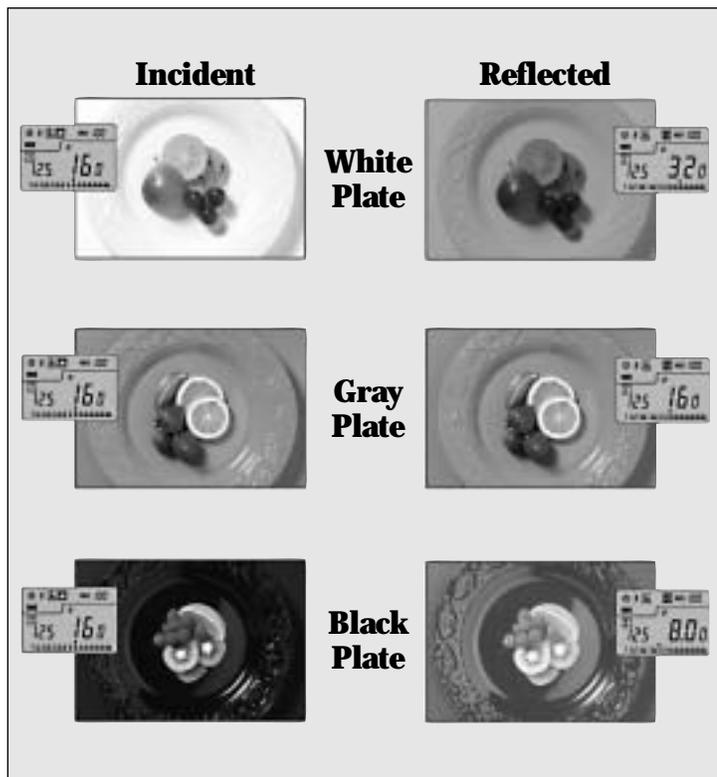
Reflected Metering

Reflected metering reads the intensity of light reflecting off the subject and may vary according to variances in tonality, color, contrast, background, surface, or shape. Meters are designed to regard all subjects as 18° neutral gray reflectance. Reflected measurement of any single toned area will result in a neutral gray rendition. *Subjects that appear lighter than gray will reflect more light and result in an exposure that renders it darker. Subjects that are darker than gray will reflect less light and result in an exposure that renders it lighter.*

Using Reflected Measurement

Hand-held reflected light meters and built-in camera meters read the intensity of light reflecting off the subject and measurements are taken from the camera position. Generally, reflected measurement of a wide subject area can include many different reflective surfaces or colors that can bias the meter and result in inconsistent and erroneous readings. Accuracy of a reflected measurement can be improved by reading an 18° neutral gray test card placed in front of the subject.

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Incident   **Reflected**

White Plate

Gray Plate

Black Plate

Spot Meters

The spot meter allows precise readings to be made of small areas of the scene. Its narrow field of view measures light reflected from as small as a 1-degree circle. Any number of areas can be measured to create a set of values for a particular scene, this enables the photographer to determine the most suitable lighting arrangement and exposure settings that will produce the desired result.

In-Camera Spot Meters

Although a number of advanced SLRs offer spot metering capability, the metering angle is directly related to the focal length of the camera lens in use. Every time the lens is changed, the effective spot meter angle changes. With a normal lens in use, the spot-metering angle may be 15° or more. A hand-held 1° spot meter consistently allows the most selective measurement of distant subjects as well as small areas in the scene.

Advantages of Reflected Spot Measurement

A spot measurement is ideal for special situations including measuring distant subjects, backlight, extreme brightness range, highly reflective surfaces, or when an incident meter cannot be positioned directly in front of the subject. *Reflected spot measurements of an 18% gray midtone, or an average of significant shadow and highlight measurements, allow the photographer to make an exposure that will record detail, tonality and accurate color.*

Flash Meters

The flash meter measures the brilliant and instantaneous burst of light produced by electronic flash sources and displays the correct aperture settings. Flash meters usually measure the incident light falling on a subject, however some meters also measure reflected light as well. Many flash meters take in to consideration the effects of available light.

Color Temperature Meters

A color temperature meter measures the color quality of ambient light, the light from electronic flash, or a combination of both.

The meter analyzes the color characteristics of the light source(s) exposing the subject, and then displays the required filtration to color balance the scene for the film being used, if any, as well as color temperature in degrees Kelvin.

Color temperature meters usually include calibrations for daylight and tungsten films. Color temperature meters may not provide accurate readings for light sources with narrow band spikes and depressions in their light distribution. Sodium vapor, metal-halide, and fluorescent lamps are examples of light sources that are difficult to measure. Color-bracketed test exposures are therefore recommended to verify that the recommended filtration is correct.

Color Measurement of Ambient Light

Ambient light refers to a continuous source of light falling on the subject, such as daylight, tungsten or other sources. If the ambient light originates from only one source, accurate measurements are easily made. However, if lights from multiple sources illuminate the subject, color measurements are more complicated.

• When the light consists of a single color temperature, the meter should generally be held facing the main light source and as close to the source as possible.

• When the ambient light comes from multiple light sources with different color temperatures, each light source should be measured and the appropriate color correction filter sheets used.

• When ambient light and electronic flash are used together, the meter should be pointed at the flash. The required filtration that is required will be indicated.

When using shutter speeds that are lower than the flash synchronization setting, the meter will show the modified filtration that is needed for proper color balance.

When light-balancing filtration is indicated, it is preferable to use gelatin-type filters in front of the light fixture(s), rather than the camera lens. Keeping the optical path free of filtration avoids problems caused by dust, etc. on the filter(s). Also filter factors need not be taken into account.

G O S S E N
DIGISIX, DIGIFLASH, LUNA PRO

Digisix (4006)

Digiflash (4007)

Gossen Luna Pro S (4020)

Gossen Luna Pro F (4030)

Gossen Luna-Pro Digital F (4023)

Digisix Incident and Reflected Lightmeter (4006)
The Digisix is an ambient light meter that does much more than just determine exposure. Small enough to sit comfortably on your camera's hot shoe (with optional shoe adapter), and sports a digital read-out and analog scale, it also offers a functioning clock with alarm, a timer for timing long exposures, plus a precision digital thermometer which measures temperatures and stores a high and low value.
Item # GODS...................................**139.00**

Digiflash Lightmeter (4007)
Digital exposure meter with analogue settings - for flash light & ambient light - maximum features in miminum size.
• Measurement of both flash and ambient light
• Incident and reflected measuring modes
• Microprocessor controlled
• Digital LCD display in 1/3-stop increments
• Contrast read-out in 1/3-stop increments
• Storage of measured values • Analog display of all suitable F-stops/shutter speed combinations • Over/Under range display • Timerfunktion • Timer, clock & alarm functions
• Automatic battery control • Temperature measurement
Item # GODF...**159.00**

SPECIFICATIONS OF DIGISIX AND DIGIFLASH METERS

MEASURING MODES: DIGISIX	Incident light, reflected light, contrast measurement
DIGIFLASH	Ambient light, flash light, incident light, reflected light, contrast measurement
DISPLAY READOUT	Digital LCD-display and setting ring
FILM SPEEDS	ISO 0,8/0° to 100 000/51°
SHUTTER SPEEDS	t = 1/2000 sec. to 4 min.
APERTURE F-STOPS	F 1 to F 32
MEASURING ANGLE IN REFLECTED MODE	approx. 25°
SENSITIVITY AT 100 I.S.O.	EV 0-18
ACCURACY	+/- 2°C or +/- 4° F
BATTERY	9V; battery level display
TIMER/WATCH	0 sec. to 30 min./12 hr 24 hr display
DIMENSIONS	3 x 2 x 1˝ (75x50x23mm)
WEIGHT	1.5 oz. (40g) including battery
Subject to change without notice	

Luna Pro F (4030)
Reads accurately down to -4 EV for extreme low light capability. It also provides ±3 f-stop scale for direct read-out of brightness range, Zone System values and lighting ratios. Dial settings are adjustable so that exposure factor corrections for bellows, filters, etc., can be automatically compensated for. An indicator reminds you when this feature is being used. It accepts all existing optional Gossen Luna Pro accessories.
Item # GOLPF...**389.00**

Luna Pro S (4020)
The Luna-Pro S is the choice of professional photographers. Experience-proven, it provides accurate reflected or incident light readings in all kinds of light, from a flickering candle to a bright summer's sun. As a system meter, it will provide correct exposures in any situation. More than just a superb hand-held meter, the Luna-Pro S has a wide range of optional accessories to further increase versatility. The Luna-Pro S can be adapted to calculate the correct exposure for photomicrography with the Microscope accessory. It can be turned into a dual angle "spot meter" with the Variable Angle accessory. It can also be used to take through-the-lens readings from a large format camera's groundglass with the optional Flexible Fiber Optics Probe accessory, or you can use it for copy work with the optional Copy accessory. And it comes in handy in the darkroom, as well; the enlarging accessory helps to find the right paper grade for black and white prints.
Item # GOLPS...**285.00**

Luna Pro Digital F (4023)
Begin with the compact size, ease of operation and sensitivity of the Luna-Pro Digital exposure meter, add the ability to measure flash, and you have the Luna-Pro Digital F. Even with the addition of flash capability, this meter remains so thin and lightweight, that it slips easily into a shirt pocket or its new ever-ready case. Control buttons on the front panel, plus a big, easy-to-read digital display, make it a joy to use. The oversize LCD panel provides direct readout of all critical information, including precise analysis of the contrast range. A built-in optical diffusion dome slides easily to switch between incident and reflected light measurement. In flash mode, it calculates multiple flash exposures and integrates light at sync speeds from 1 sec. to 1/1000th sec. The Luna-Pro Digital F has a sensitivity range that is wide enough to give accurate measurements from bright sunlight to deep shadows, and features cord or cordless flash operation and auto power off with memory.
Item # GOLPDF...**229.00**

LUNA-PRO, SCOUT 3, PILOT 2

Gossen
Luna Pro
Digital
(4022)

Luna Pro Digital (4022)
The Gossen Luna-Pro Digital is a thin, lightweight meter that's easy to operate. The front panel features control buttons that are recognizable at a glance on a display with easy-to-read numerals. The narrow measuring angle allows you to meter important details of the subject with the greatest accuracy. The contrast range is precisely analyzed and clearly displayed. To conserve batteries, the Luna-Pro Digital has an automatic power off, yet settings and measurements are stored in memory and can be recalled, even after the unit has been shut down.
Item # GOLPD **209.00**

SPECIFICATIONS FOR LUNA PRO MODELS

MODEL	LUNA PRO DIGITAL	LUNA PRO S	LUNA PRO F	LUNA PRO DIGITAL F
PHOTO CELL	S.B.C.	C.D.S.	S.B.C.	S.B.C.
DISPLAY READOUT	Digital L.C.D. plus Analog L.C.D.	Indicator Needle	Indicator Needle	Digital L.C.D.
MEASURING SYSTEM	Ambient	Ambient	Ambient and Flash	Ambient and Flash
FILM SPEED I.S.O.	3 to 8,000	0.8 to 25,000	0.8 to 25,000	3 to 8,000
F-STOP	F1 to F90	F1 to F90	F0.7 to F128	F1 to F90
SHUTTER SPEED	1/8000 sec. to 60 min.	1/4000 sec. to 8 hrs.	1/4000 to 8 hrs.	1/800 sec. to 1 hr.
FLASH SYNC	-	-	-	1/100 to 1 sec.
CINE	-	-	4.5 to 144 F.P.S.	8 to 64 F.P.S.
ANGLE OF COVERAGE REFLECTED LIGHT	25°	30°	30°	30°
SENSITIVITY at 100 I.S.O.	EV-25 to +18	EV-4 to +17	EV-1 to +17	EV-2.5 to +18
SENSITIVITY AT FOOTCANDLES	-	.016 to 32,000 F.C.	.125 to 32,000F.C.	-
LUX RANGE	-	-	28.8 to 7360 LUX	-
POWER SOURCE	1.5v AA Battery	Two 1.35v 625a Batteries	9v Battery	AA Battery
DIMENSIONS	2.5 x 4.5 x .75˝	2 5/8 x 1.25 x 4˝	4.75 x 1.75 x 2.75˝	2.5 x 4.5 x .75˝
WEIGHT	3.35 oz. (95g)	7 oz. (198g)	8.5 oz. (240g)	3.75 oz. (106g)

Subject to change without notice
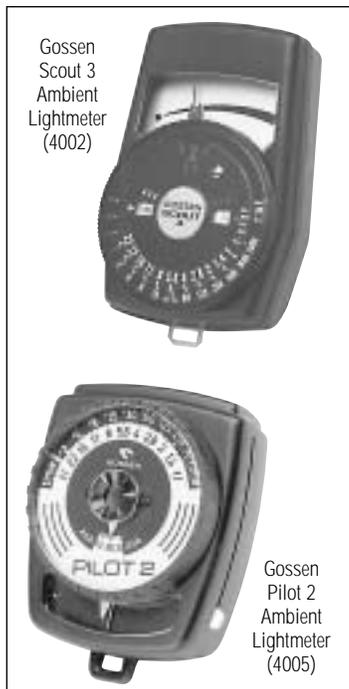
Gossen
Scout 3
Ambient
Lightmeter
(4002)

Gossen
Pilot 2
Ambient
Lightmeter
(4005)

Scout 3
Ambient Lightmeter (4002)
A compact and lightweight meter that is simple to use. The selenium metering cell operates without a battery. Large dial with easy-to-read scales and match needle system.
Item # GOS3 ....**67.00**

Pilot 2
Ambient Lightmeter (4005)
The most compact meter made for accurate reflected and incident light measurement. An optional accessory enables you to mount the Pilot 2 on the hot shoe of your camera. It weighs under 1½ oz., yet it has everything needed for movie or still photography. Quick and convenient operation with its large computer dial and large, clear scales.
Item # GOP2 ....**99.00**

SPECIFICATIONS OF SCOUT 3 AND PILOT 2 METERS

MODEL	SCOUT 3	PILOT 2
MEASURING SYSTEM	Ambient (Reflective)	Ambient
DISPLAY READOUT	Indicator Needle	Indicator Needle
FILM SPEED I.S.O.	6 to 6,400	6 to 3,200
F-STOP	F1 to F32	F1.4 to F22
SHUTTER SPEED	1/2000 sec. to 8 sec.	1/1000 sec. to 4 min.
ANGLE OF COVERAGE	50°	52° Reflective 180° Incident
SENSITIVITY AT I.S.O.100	EV+6 to EV+16	EV+5 to EV+17
SENSITIVITY FOOTCANDLES	-	FC.32 to F.C.32,000
POWER SOURCE	No Battery	No Battery
DIMENSIONS	2⅛ x 3⅓ x 1⅛˝	1.75 x 2.5 x 1⅛˝
WEIGHT	1.75 oz. (50g)	1.5 oz. (43g)

Subject to change without notice

GOSSEN

STARLITE, MAVOLUX, LUNA STAR

Starlite
(4045)

Luna Star F2
(4032)

Mavolux
(4056)

Color Pro 3F
(4063)

Starlite (4045)
Measure light in any form: flash or ambient, reflected or incident even a tiny spot. The Starlite digital meter provides photometric readings or even Zone System ranges for still photography or cinematography all in one compact and rugged, yet stylish, water-resistant unit. A 270-degree swivel head with built-in viewfinder and multi-position diffuser allows you to instantly select any of four different measuring modes:
• 1° or 5° spot measures reflected light through the viewfinder
• Incident light-spherical , flat plane & any of 6 different measuring methods
• Cine mode, provides filmmakers with a full range of features including a preset shutter angle of 180 degree adjustable in ten-step increments.
• Photometric mode, light intensities and luminance can be measured for both ambient light and flash with results displayed in LUX, foot-candle, cd/m2, footlambert and more.
Item # GOSLM...**586.95**

Mavolux 5032 C (4056)
Measure illumination in footcandles or lux. Can also measure Candelas/M2 amd footlamberts with optional luminance attachment. The Mavolux 5032 C is equipped with color correction that matches the spectral response to the human eye V(lambda), in accordance with DIN 5032, part 7, class C. Integrated cosine correction is included to ensure the correct evaluation of oblique light.
Item #GOM5032C **551.00**

Luna Star F2 (4032)
The microprocessor-controlled Luna-Star F2 automatically measures and analyzes both flash and continuous light in a single metering operation and displays the reading clearly, in large, easy-to-read numerals. It also measures both incident and reflected light for particularly accurate exposures, especially with subjects that are either very bright or very dark. It features a rotating head which points the light sensor in any direction. A series of flash synchronizing speeds from 1 sec. to 1/1000 sec. allow you to control the exposure of flash shots that utilize several different sources of light. The equivalent European model number is Vario-Six F.
Item # GOLSF2...**415.00**

Color Pro 3F (4063)
The micro-processor Color Pro 3F is designed for color temperature light balancing in Kodak conversion and mired, CC filter values, lux and lux seconds. This color temperature meter analyzes the prevailing lighting situation with flash and continuous light, at the push of a single button. The color temperature is measured and the corresponding filters in Light Balancing and CC values are displayed. The Color Pro displays luminous intensity of flash and continuous light in lux and lux seconds readings. Adjusted functions are permanently indicated on the display. It also features an integrated triple sensor and a flash sync triggering button. The equivalent European model number is Color Master 3F.
Item # GOCP3F..**1082.00**

SPECIFICATIONS FOR STARLITE, MAVOLUX, LUNA STAR F2 AND COLOR PRO 3F

MODEL	STARLITE	MAVOLUX	LUNA STAR F2	COLOR PRO 3F
PHOTO CELL	2-Silicon Photo diodes	Silicon cell	-	Triple Silicon Photodiode
DISPLAY READOUT	Digital LCD	Digital LCD	Digital plus Analog L.C.D.	Digital L.C.D.
MEASURING SYSTEM	Ambient or Flash	-	Ambient and Flash	Color Meter for Ambient or Flash
FILM SPEED I.S.O.	3.2 to 8000	-	3 to 8,000 I.S.O.	
F-STOP	F1 to F128	-	F1 to F90.9	
SHUTTER SPEED	1/8000 sec to 60 mins.	-	1/8000 to 60 min.	
FLASH SYNC	1/1000 to 1 sec.	-	1 to 1/1000 sec.	1/500 sec. to 1/2 sec.
CINE SCALE	8 to 128 fps	-	8 to 64 F.P.S.	
ANGLE OF COVERAGE REFLECTED LIGHT	1° or 5°	-	30° Reflected	**LB FILTER VALUE** -399 to +475 mired, or change over to corresponding Kodak color compensating and color conversion filter values
SENSITIVITY AT 100 I.S.O.	EV -2.5 to +18 , Zone 0.X	-	EV-2.5 to EV18	
SENSITIVITY AT FOOTCANDLES	0.05 to 50,000	0.1 to 19,990	-	
LUX RANGE	0.5 to 199,900	0.1 to 199,900	-	**FLASH INTENSITY** 5 to 1,500lxs
MEASURING RATE	-	2.5 operations per sec.	-	
POWER SOURCE	1.5V AA Battery	AA batt.	9v Battery	9v Battery
DIMENSIONS	6.5 x 2.6 x 1˝	2.5 x 4.75 x .75˝	5 x 2⅝ x 1˝	5 x 2⅝ x 1˝
WEIGHT	6.4 oz.	7 oz.	4.4 oz. (125g)	4.5 oz. (127g)
Subject to change without notice				

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U L T R A   S P O T   2

Ultra Spot 2 (4050)

The Ultra Spot 2 provides all the information you need at a single glance. When looking through its viewfinder you can see the subject, a 1° measuring circle and a complete display of exposure information. The combination of electronic accuracy and a high-quality optical lens means the Ultra-Spot 2 provides a vivid 15° view with a 1° circle in the middle to indicate the meter's measuring angle. The exposure information is displayed around the viewing field and includes: ambient light readings, f-stop, shutter speed, exposure value, zone or cine. In addition, you can average up to ten discrete readings. The Gossen Ultra Spot 2 is truly an all purpose spotmeter, equally adaptable to color or black & white film. Engineered for both ambient and flash lighting, it is also a natural for zone system photography. Comfortable design with a wealth of technically advanced features and fingertip operating ease, the Ultra Spot is the precise way to take all of your spot readings. The equivalent European model number is Spot-Master.

Item # GOUS2** 824.00**

SPECIFICATIONS FOR ULTRA SPOT 2	
PHOTO CELL	S.B.C.
MEASURING SYSTEM	Spot Ambient/and Spot Flashmeter
DISPLAY READOUT	Green L.C.D. in Viewfinder
FILM SPEED I.S.O.	1 to 80,000
F-STOP	F1 to F90.9
SHUTTER SPEED	1/8000 sec. to 60 min.
FLASH SYNC	1/8 to 1/1000 sec.
ANGLE OF COVERAGE	1° with a 15° Field of View
SENSITIVITY AT 100 I.S.O.	EV1 to EV22
OTHER DATA	0 to X adapted to film development zone system 15 second duration of exposure reading 43mm Ø filter diameter
POWER SOURCE	9v Battery
DIMENSIONS	3.5 x 2.4 x 7.5˝ L.W.H. (90 x 57 x 190mm)
WEIGHT	14 oz. (400g)
Subject to change without notice	

S P E C T R A   C I N E

Spectra Professional IV-A

The IV-A measures incident and reflected light directly in f/stops, footcandles and lux, and instantly calculates the f/stop difference, contrast ratio and average of your particular lighting situation. The multiple channel memory recalls the stored measurement, current measurement, f/stop difference, contrast ratio and average. The meter covers a sensitivity range of almost one-million to one.

Pro IV-A Black (18002AB)
***Item # SPP4AB**.................**372.00**

Pro IV-A Blue (18002ABL)
***Item # SPP4ABL**...............**372.00**

Pro IV-A Green (18002AGR)
***Item # SPP4AGR**..............**372.00**

Pro IV-A Yellow (18002AY)
***Item # SPP4AY**.................**372.00**

Candela II / IIA Illuminance Photometer

The most comprehensive, technologically advanced, photometer using advanced microcomputer technology, sealed hybrid integrated circuitry with large digital back-lit liquid crystal display and measurement. The Candela II Photometer can also store and recall up to two readings with the memory / recal function whereas Candela II -A, also instatantly calculates Contrast Ratio, as well as average footcandles and lux.. Applications include video lighting, set lighting, task lighting ambient illumination and calculation of lighting ratios.

Candella II
with Backlit Display (18004)
***Item # SPC2010EL**...........**357.50**

Candella IIA with Backlit
Display (18004A)
***Item # SPC2010ELA** **412.50**

Candella IIA with Detachable
Head (18005A)
***Item # SPC2010ELDHA** ..**442.95**

Candella IIA with Lowlight
Sensor (18006A)
***Item # SPC2010ELLSSA** ..**589.95**

SPECIFICATIONS FOR PROFESSIONAL IV-A & CANDELA II/IIA		
MODEL	CANDELA II / IIA	PROFESSIONAL IV-A
PHOTO CELL	Silicon Photovaltaic & Computer Selected Photopic filter	Silicon Photovaltaic
DISPLAY READOUT	Digital LCD	Digital LCD plus analog bargraph
MEASURING RANGE :	One million to One Direct reading Multiple Range Linear Circuit controlled by microcomputer.	
MEASURING SYSTEM	-	Ambient
FILM SPREED I.S.O.	-	3 to 8000
F-STOP ANALOG	-	F 0.7 to F45
F-STOP DIGITAL	-	F 0.35 to F 128
SHUTTER SPEED AMBIENT	-	1/8000 sec to 30 min.
CINE		2 to 360 fps
ANGLE OF COVERAGE	42° (1° w/Spot Attachment)	42°
SENSITIVITY AT 100 I.S.O./24 FPS	-	-5 EV
SENSITIVITY AT FOOTCANDLES	0.1 to 70,000	0.1 to 70,000
LUX RANGE	1 to 100,000	1 to 100,000
POWER SOURCE	6v.(544 or PX28)	6v.(544 or PX28)
DIMENSIONS	2.5 x 5.5 x 2˝	2.5 x 5.5 x 2˝
WEIGHT	6 oz.	6 oz.
Subject to change without notice		

MINOLTA
AUTO METER VF/FLASHMETER VI

Variable Angle
Attachment
(4106)
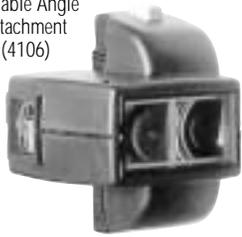
For Ultra-Pro, Multi-Pro, Luna-Pro F, Luna-Pro sbc and Luna-Pro S

Variable Angle Attachment (4106)
Item # GOVAA....................89.95

Enlarging Attachment (4100)
Item # GOEA.......................69.95

Microscope Attachment (4102)
Item # GOMSAQ................64.95

Fiber Optics Probe Attachment (4104)
Item # GOFOP..................289.95

Repro Attachment (4108)
Item # GORCA....................69.95

For Luna-Pro Digital and Luna-Pro Digital F

Underwater Housing for Luna-Pro Digital and Digital F (4150)
Item # GOLMH................279.95

For Luna-Star F and F2

+5 f-Stop Range Extender for Luna-Star F (4114)
Item # GORELSF.................23.95

Case for Luna-Star F and F2 with 5° Spot Attachment (4113)
Item # GOCLSF...................24.95

Miscellaneous

Camera Adapter Clip for Pilot 2 (4099)
Item # GOCAC....................11.95

Adapter Kit and Batteries for Luna-Pro and Luna-Pro S (4145)
To convert meters with mercury batteries to silver oxide
Item # GOAKBHLP 38.95

AUTO METER VF

Auto Meter VF (8058103)
A new, compact and lightweight digital exposure meter for measuring ambient light and flash with or without a sync cord. In all measuring modes, with reflected or incident readings, it is a very reliable meter. Stores and averages 2 separate readings making it easy to determine subject contrast range or lighting ratio. Calculates the ratio of flash light to ambient light in relation to the total illumination. Whenever you take a flash light reading, the Analyze scale is displayed on the LCD data panel. After a reading, you can also do a simulation to see how changes to the shutter speed affect the proportions of ambient light and flash light. The analyze scale shows the proportion of flash light in the total exposure reading as one of five levels. In addition, several custom settings are possible. For cinematographers, the Auto Meter VF has ten framing rate settings. Plus, the extended ISO range can be used to factor in filtration correction.
Item # MIAM5...219.95

FLASHMETER VI

Flashmeter VI (8057103)
The Minolta Flash Meter VI sets a new industry standard by incorporating a compact, high-performance 1 spot meter function for the utmost in versatility. Separate measuring buttons allow taking both normal incident light readings and reflected-spot readings for comparison in the meter's unique LATITUDE display mode.

- High-performance Spot Meter
- Compact and stylish design
- Built-in 1° spot metering
- Exposure navigation system
- Multifunctional meter providing analyze function, brightness difference function, etc.
- Up to 10 incident or spot measurements memory function
- Brightness difference function
- Ambient light readings
- Flash readings with or without a sync cord
- Exposure calculation (S/A/H) functions
- Average function
- Highlight-biased measurements
- Shadow-biased measurements
- Cine measurements
- Custom settings mode (Alt Mode)

Item # MIFM6 ....429.95

Minolta Auto
Meter V F
(8058103)

Minolta
Flash
Meter 6
(8057103)

SPECIFICATIONS FOR AUTO METER V F and FLASH METER V

MODEL	AUTOMETER VF	FLASHMETER VI
PHOTO CELL	Silicon Photo Cell	Silicon Photo Cell
MEASURING SYSTEM	Ambient and Flash	Ambient, Cord and Non-Cord Flash
DISPLAY READOUT	Digital L.C.D. plus L.C.D. Analog	Digital LCD plus LCD Analog
FILM SPEED I.S.O.	3 to 8,000	-
F-STOP	F1 to F90	F1.0 to F128
SHUTTER SPEED - AMBIENT	1/8000 to 30 min.	1/16000 sec. to 30 min.
SHUTTER SPEED - FLASH	1/500 to 1 sec.	1/1000 sec. to 30 min.
CINE SPEED	8 to 128 F.P.S.	-
FLASH SYNC TIMES	1/500 to 1 sec.	-
ANGLE OF COVERAGE	40°	-
SENSITIVITY AT 100 I.S.O.	EV-2 to EV24.4	Ambient: Incident: EV-2 to 19.9 Spot: EV 2 to 24.5 Flash: Incident: FNo-1 to 128 Spot: FNo 2.8 to 128
POWER SOURCE	One AA	One AA
DIMENSIONS	2.3 x 1 x 5.8˝ (59 x 26 x 147mm)	2.5 x 6.9 x 1.2˝ (63 x 175 x 30mm)
WEIGHT	4.4 oz. (125g)	6 oz. (170g) Excluding Battery

Subject to change without notice

MINOLTA ACCESSORIES FOR AUTO METER III, AUTOMETER IV, V F AND FLASHMETER V

Spherical Diffuser (15090584)
For incident reading replacement.
*Item # MISD.......................***19.95**

**Reflected Light
Attachment 40°** (8038700)
The Reflected Light Attachment
has a 40° angle
of acceptance which corre-
sponds to the angle of view seen
with 50mm lens on a 35mm
SLR camera.
*Item # MIRLA40................***17.95**

Flat Diffuser (8034200)
Used to measure the lighting
ratio between main and auxil-
iary light sources, to determine
illuminance values and to take
exposure readings for flat sur-
faces such as paintings.
*Item # MIFD.......................***17.95**

Spherical
Diffuser
(1509-0584)

Reflected Light
Attachment 40°
(8038-700)

Flat Diffuser
(8034-300)

Spot Mask (8034300)
The Spot Mask is an enlarger
attachment so that the meter
can double up as an enlarging
meter. First determine the aper-
ture setting and exposure time
for a standard negative, then
measure the illumination using
the spot mask. With subsequent
negatives, the need for a test
print can be eliminated by
measuring an area on the nega-
tive of similar density to the
metered area on the standard
negative.
*Item # MISME....................***22.95**

Booster II Set (8045)
Consists of a Booster II, spot-probe, microscope, 35mm film-plane
and SLR eyepiece attachments. The Booster II is a high-sensitivity
receptor that takes measurements off the focusing screen of a large-
format view camera when the spot-probe receptor is attached to it.
Useful for close-ups and macrophotographs. Direct readings through
the microscope's optics are possible. Flash exposures can be calculated
with the Flashmeter. Highly accurate measurements of flash or ambi-
ent light at the camera's film plane are possible with the 35mm film-
plane attachment. This method is more accurate than measurements
taken through the SLR eyepiece, because the Booster II measures the
light that actually passes through the camera lens and strikes the film.
The SLR eyepiece attachment enables taking centered, circular TTL
exposure readings through the camera's lens. This function is impor-
tant if you own an SLR camera that does not have a built-in meter.
Also useful for taking TTL flash measurements. Requires one 6v, four
LR44 or equivalent battery.
*Item # MIB2S..***219.95**

**4X Spherical
ND Diffuser** (8034600)
A 4X Spherical ND Diffuser is
used when the light level is too
bright to be measured by the
standard diffuser. The measure-
ment range is extended by two
f-stops.
*Item # MISNDD4...............***22.95**

**8X Spherical
ND Diffuser** (8034650)
For the Flashmeter V only. It is
the same as the 4X Spherical
ND Diffuser, with the
measurement range extended by
3 f-stops.
*Item # MISNDD8...............***22.95**

Mini Receptor (8034500)
For photomacrography
and close-up
work, this
remote
receptor
plugs into the
socket on
the meter's
receptor
head.
The
Mini Receptor can be used to
measure incident light in
places that are otherwise inac-
cessible to the meter's receptor
head.
*Item # MIMR ***124.95**

ViewFinder 5° (8034156)
With case. The ViewFinder 5°
features a 5° angle of acceptance
and enables spot metering of
subjects from a distance.
Displayed exposure value must
be adjusted when used with
Autometer III.
*Item # MIVF5.....................***89.95**

Sync Cord III (8034910)
For use with the Flashmeter and
Auto Meter IVF, the Sync Cord
III is a 5-meter long cord that
connects to the meter, flash unit,
and camera's sync terminal
simultaneously, making meter-
flash and camera-flash synchro-
nization possible without
changing connections.
*Item # MISC3.....................***29.95**

**ViewFinder 10° II
with Case** (8034116)
Same as above, featuring a 10°
angle of acceptance.
*Item # MIVF10...................***76.95**

MISCELLANEOUS

Meter Kit Case II (8048650)
The sturdy Meter Kit Case II
holds a Minolta meter and has
space for a wide variety of acces-
sories for easier portability. With
the meter and accessories
together, nothing is forgotten
when going to a shoot. Please
Note: The Sync Cord III will not
fit in this case.
*Item # MIMKC2...............***111.95**

Strap for Light Meters (80441051)
Replacement.
*Item # MISNAM4F ***5.95**

Case for Auto Meter III (8044600)
Replacement.
*Item # MICAM3.................***28.50**

**Infrared
Receiver/Trigger** (8050107)
*Item # MIRTIR.................***199.95**

**Data Receiver
DR-1000** (8050207)
*Item # MIDR1000............***249.95**

MINOLTA
SPOT METER F, COLOR METER IIIF

SPOT METER F

Spot Meter F (8053107)
The Spot Meter F lets you take 1° spot measurements of ambient or flash light. Liquid-crystal displays on the meter's side panel and in the viewfinder show a full range of exposure information in both digital and analog form. Exposure calculations for highlights, shadows, or mid-tone areas can be made at the touch of a button. Plus, the lighting contrast can be quickly checked while looking through the viewfinder.

The Spot Meter F can automatically calculate the exposure for highlight or shadow areas. And, by using the memory function, the user can average two readings for a mid-tone exposure.

Exposure readings are shown digitally in the meter's data panel and viewfinder displays. The data panel also has an analog f/number scale that can indicate up to four exposure readings. This full range of information makes it easy to determine the optimum exposure in nearly any situation.

When the Spot Meter F is switched off, the ISO and shutter speed settings are stored in memory. When the meter is switched back on, the most recent digital exposure readout and any memorized data is displayed.
Item # MISMF **384.95**

SPOT METER F ACCESSORIES

Lens Cap (8043700)
Replacement.
Item # MILCSMF **4.95**

Synchro Cord III (8034910)
Item # MISC3 ....**29.95**

Case (8053600)
Replacement.
Item # MICSMF **36.95**

COLOR METER IIIF

Color Meter IIIF (8055103)
The Minolta Color Meter IIIF is a color compensation meter for ambient and flash with correction value memory. This makes it easier for photographers to maintain consistent color under various types of illumination. The meter measures the color of the light illuminating the subject and determines the filtration required to correct that illumination for the film in use. When measuring both ambient light and flash, selecting the Color Meter IIIF's analyzing function will subtract the ambient light and display only the measured results for flash light. Measurements can be taken for any of the three major film types: Daylight (balanced to 5500k), Type-A Tungsten (balanced to 3400k), or Type-B Tungsten (balanced to 3200k). Measurement results can be displayed as light-balancing and color-compensating indexes, Kodak Wratten filter number and CC index, or photographic color temperature (determined color temperature based on film sensitivity). Display of Kodak Wratten filter numbers makes selecting filters quick and convenient; if 2 Wratten filters are necessary, the Color Meter IIIF displays both numbers.

Color Meter IIIF users can store their own personal correction values for the recommended filtration. Correction values for LB and CC indexes can be stored in any of the meter's nine memory channels to custom-tune meter readings for the desired color reproduction. The correction values are added to the initial measured values to calculate the final displayed results.
Item # MICM3F **919.95**

Minolta Spot
Meter F
(8053-107)

Minolta
Color
Meter IIIF
(805-5103)

SPECIFICATIONS FOR SPOT METER F	
PHOTO CELL	Silicone Photo Cell
MEASURING SYSTEM	Spot Ambient and Flashmeter
DISPLAY READOUT	Digital L.C.D. in Viewfinder plus L.C.D. Side Panel and L.C.D. Analog
FILM SPEED I.S.O.	12 to 6,400
F-STOP	F0.7 to F90
SHUTTER SPEED	1/8000 sec. to 30 min.
FLASH SYNC TIMES	1 to 1/1000 sec.
ANGLE OF COVERAGE	1° with 12 x 17° View Field
SENSITIVITY AT 100 I.S.O.	EV1 to EV22.5
OTHER DATA	Optical System: Through-the-lens reflex type utilizing semi-silvered mirror and pentaprism; focus-fixed for readings 4¼ ft. to infinity; Magnification 1.4x; Diopter adjustment -2.5 to 1.2
POWER SOURCE	One AA Battery
DIMENSIONS	1.9 x 5.9 x 3.5″ (48 x 150 x 89mm)
WEIGHT	8.5 oz. (240g)
Subject to change without notice	

SPECIFICATIONS FOR COLOR METER IIIF	
PHOTO CELL	Triple Silicon Photo Cells (filtered for R.G.B.)
MEASURING SYSTEM	Color Meter for Ambient and Flash
DISPLAY READOUT	Digital L.C.D.
SENSITIVITY AT I.S.O. 100 AMBIENT	EV3 to EV16.3
F-STOP AT I.S.O. 100 FLASH	F2.8 to F180
COLOR TEMPERATURE	1,600 to 40,000k
LB FILTER VALUE	-500 to +500 Mired
C INDEX	200m to 200g
LB FILTER NO.	85B + 81EF to 80A +80D
FLASH SYNC TIMES	1/500 to 1 sec.
POWER SOURCE	Two AA Battery
DIMENSIONS	6.3 x 2.7 x 1.1″ (160 x 68 x 28mm)
WEIGHT	7 oz. (200g)
Subject to change without notice	

S P O T M E T E R S

Spotmeter V (36130)
Incorporates a single lens reflex optical system, constituting the ideal in precision exposure metering. The subject area covered by the metering angle of 1° (equivalent to the angle used by an ultra-telephoto 2000mm lens) is indicated by a small circle in the pentaprism viewfinder. The photosensitive silicon photo diode offers exceptional performance, even in low levels of light. The single linear meter scale in the viewfinder makes needle deflections easy to read, and an IRE index scale can be read directly from EV values on the side dial. The push button meter switch ensures that the batteries are not consumed unnecessarily.
Item # PESM5..**344.95**

Hand Strap (32940)
Replacement.
Item # PESHSM5 ....**16.50**

Case (33630)
Replacement.
Item # PECDSM...**39.95**

Lens Cap for Digital Spotmeter (31020)
Replacement.
Item # PELCDSM...**7.50**

Lens Cap for Spotmeter V (31480)
Replacement.
Item # PELCSM5...**8.95**

Digital Spotmeter (36141)
Selectively pinpoints with extreme accuracy the correct exposures in the deepest shadows and the brightest highlights. Measures contrast ratios and serves as a brightness meter in TV or motion picture studios. Its 1° pinpoint metering angle is comparable to the field of view of a 2,000mm lens for a 35mm camera. It has a measuring range of EV 1-20. Measures exposures by four different methods: general measuring, averaging, highlight reading and shadow reading. Ideally suited to the most exacting needs of any photographer. Weighing only 9.1 oz., its bright fixed focus, through-the-lens viewfinder presents a slightly enlarged (1.15x life size) image. The silver-coated pentaprism, seven-layer multi-coating of its lens and eyepiece and fine-grooved fresnel lens all combine to create an extraordinarily brilliant viewfinder, effective even in the dimmest light. A 1° circle engraved in the center of the viewfinder outlines the image-area being measured. When the trigger-like metering button in the pistol-grip handle is squeezed, the appropriate EV number lights up in the LED panel.
Item # PESMD..**399.95**

Spotmeter V

Digital Spotmeter

SPECIFICATIONS FOR PENTAX SPOTMETERS

MODEL	SPOTMETER V	DIGITAL SPOTMETER
PHOTO CELL	Silicon Photo Diode	Silicon Photo Diode
DISPLAY READOUT	Indicator needle in viewfinder	L.E.D. in viewfinder
MEASURING SYSTEM	Spot Ambient	Spot Ambient
FILM SPEED I.S.O.	6 to 6,400	6 to 6,400
F-STOP	F1 to F128	F1 to F128
SHUTTER SPEED	1/4000 sec. to 4 min.	1/4000 sec. to 4 min.
CINE SCALE	24 F.P.S. (1/50 sec.)	24 F.P.S. (1/50 sec.)
ANGLE OF COVERAGE	1°	1°
SENSITIVITY AT 100 I.S.O.	EV1-19 plus I.R.E. Scale	EV1-20 plus I.R.E. Scale
VIEWFINDER	Single lens reflex pentaprism type, giving erect projected image. Fresnel lens, field of view 17′ horizontal and 12′ vertical, 21′ diagonal. Magnification 1.5x. Eyepiece correction 0 to -1 diopter. Scale illumination button provided.	Single lens reflex pentaprism type with unreversed, laterally correct image. Objective and eyepiece lenses Super-Multi-Coated and pentaprism specially silvered for brilliant viewfinder image. Even illumination achieved with finely grooved fresnel lens. 1° spot indicated in center of viewfinder, and large L.E.D. panel at bottom. Total viewfinder coverage similar in shape to that of a 35mm SLR viewfinder with a diagonal field of view of 26°, horizontal field of 22° and vertical field of 14°. Adjustable eyepiece correction from -2 to +1 diopter.
OTHER	I.R.E. Scale 1-10 lens accepts 46mm filter unit, includes tripod socket	I.R.E. Scale 1-10 lens accepts 40.5mm filter unit, includes tripod socket
POWER SOURCE	Three 1.5v #76 Batteries	One 6v PX28 Battery
DIMENSIONS	2.4 x 6.4 x 5″ (62 x 163 x 127mm)	1.7 x 5.7 x 3.3″ (44 x 144 x 83mm)
WEIGHT	15.9 oz (450g)	9.1 oz. (258g)

Subject to change without notice

POLARIS
DIGITAL, 2 & DUAL 5 METERS

Digital
Exposure
Meter
SPD-100

Polaris 2
Meter
SPD-200

Polaris
Dual 5
Meter
SPD-500

Polaris meters are full-featured, professional quality products costing substantially less than comparable meters. They offer a wide range of features and the ability to measure and evaluate complex lighting situations, as well as calculate multiple flash set-ups. Even though most cameras have built-in metering, the low cost and high reliability of Polaris meters make them an indispensable insurance policy for back-up with any outfit. All have incident and reflected meter reading capability. Dependability and solid performance are found in the full line of Polaris meters, which include an available lightmeter and three flashmeters. Polaris meters are an excellent choice for both studio and on-location photography.

Digital Exposure Meter (SPD100)
The Polaris Digital Exposure Meter is a compact flash and ambient lightmeter that has many features of the more expensive flashmeters. A custom Program Level Function lets you program your meter for slightly under or over exposure. A unique multi-flash feature makes it simple to calculate how many times the flash must be fired to achieve a desired f-stop. The Polaris' large LCD display shows both the shutter speed and f-stop in 1/10 stop increments. Reverse polarity adapter, strap and case included.
Item # SHP **169.95**

Polaris 2 Digital Flash and Ambient Meter (SPD200)
An enhanced version of the Polaris Flash Meter. The Polaris 2 offers an on command backlight LCD display, an essential feature when taking readings in a dimly lit situation or when using flash in a studio.
• On-command backlight LCD display
• Contains all other features of the original Polaris Flash Meter
Item # SHP2 ....**239.95**

Polaris Dual 5 Digital Flash and Ambient Meter (SPD500)
The Polaris Dual 5 features both 5 degree spot metering capability and rotating receptor head - as well as an on command backlight LCD display, an essential feature when taking readings in a dimly lit situation or when using flash in a studio.
• On-command backlight LCD display
• 5 degree spot metering capability • Rotating receptor head
• Contains all other features of the original Polaris Flash Meter
Item # SHPD5 ....**319.95**

SPECIFICATIONS FOR POLARIS METERS

MODEL	POLARIS DIGITAL EXPOSURE	POLARIS 2 DIGITAL	POLARIS DUAL
PHOTO CELL	Silicon Photo Transistor	Silicon Photo Diode	Silicon Photo Diode
DISPLAY READOUT	Digital LCD plus Analog LCD	Digital LCD	Digital LCD
MEASURING SYSTEM	Ambient and Flash	Ambient and Flash	Ambient and Flash
FILM SPEED I.S.O.	3 to 8000	3 to 8000	3 to 8000
F-STOP	F 0.5 to F90	F 0.5 to F90	F 0.5 to F90
SHUTTER SPEED	1/8000 sec to 60 sec.	1/8000 sec to 60 sec.	1/8000 sec to 60 sec.
FLASH SYNC.	1/500 sec to 1 sec.	1/500 sec to 1 sec.	1/500 sec to 1 sec.
ANGLE OF COVERAGE	35°	35°	35° or 5° Spot
SENSITIVITY AT 100 I.S.O.	EV 1 to 19.9	EV 1 to 19.9	EV 1 to 19.9
POWER SOURCE	1 AA batt.	1 AA batt.	1 AA batt.
DIMENSIONS	4.7 x 2.5 x 0.8″ (119 x 63 x 21mm)	2.5 x 0.8 x 4.7″ (63 x 22 x 119mm)	2.5 x 0.8 x 5.8″ (65 x 22 x 148mm)
WEIGHT	3.3 oz (94 g)	3.3 oz (94 g)	4.1 oz (115 g)

Subject to change without notice

Auto Leader
L-188

Twin Mate
L-208

Footcandle Meter
L-246

Auto Leader L-188 (401188)
With strap, battery and case. An easy to use, match needle reflected light exposure meter. Lightweight and thin design - fits into shirt pocket. The Auto Leader L-188 has a high sensitive CDS cell that allows for lower light measurements. An optional underwater housing is also available.
Item # SEL188..................64.95

Twin Mate L-208 Analog Incident & Reflected Light Meter (401208)
A compact light meter which combines designed to provide simple, one-handed operation. The printed digits are large and have been color coded for easy recognition of all readings. The L-208 also features a accessory mounting shoe to attach the meter to the accessory flash shoe of many cameras, making the meter accessible and handily positioned for metering most subjects from the camera position.
Item # SEL208..................89.95

Footcandle and Lux Meters
The Sekonic Footcandle Meter L-246 and Lux Meter L-246LX are lightweight, compact direct measurement meters. They both have a swivel head, and the simplified scale facilitates easy readings. Both meters have a selenium photocell that eliminates the use of batteries. They include lumidisc, high slide and neck strap.

Footcandle Meter L-246 (401246)
Item # SEL246................149.95

Lux Meter L-246LX (401206)
Item # SEL246LX...........149.95

Sekonic
Lightmeters

SPECIFICATIONS FOR AUTO LEADER METER

MODEL	L-188
MEASURING SYSTEM	Ambient (Reflective)
DISPLAY READOUT	Indicator Needle
FILM SPEED I.S.O.	6 to 12,000
F-STOP	F1 to F64
SHUTTER SPEED	1/2000 sec. to 8 sec.
CINE	8 to 128 F.P.S.
ANGLE OF COVERAGE	65°
SENSITIVITY AT I.S.O. 100	EV3 to EV18
POWER SOURCE	SR - 44 Battery
DIMENSIONS	3.2 x 2 x .75˝ (81 x 52 x 19mm)
WEIGHT	1.7 oz. (48g)

Subject to change without notice

SPECIFICATIONS FOR TWIN MATE

MODEL	L-208
PHOTO CELL	Silicon Photodiode
DISPLAY READOUT	Indicator needle
FILM SPEED I.S.O.	12 ~ 12500
F-STOP	F 1.4 to F32
SHUTTER SPEED AMBIENT	1/8000 sec to 30 sec
ANGLE OF COVERAGE	33°
SENSITIVITY AT 100 I.S.O.	EV 3 ~ EV 17
POWER SOURCE	3v.(CR2032)
DIMENSIONS	1.8 x 2.6 x 1.0˝ (40 x 65 x 24mm)
WEIGHT	1.4 oz (40g.)

Subject to change without notice

SPECIFICATIONS FOR FOOTCANDLE AND LUX METERS

MODEL		L-246	L-246LX
DISPLAY READOUT		Indicator Needle	Indicator Needle
MEASURING SYSTEM		Incident Light Type	Incident Light Type
MEASURING RANGE:	Low Range	0 - 100 F.C.	0 - 1,000 LUX
	Mid Range	0 - 500 F.C.	0 - 5,000 LUX
	High Range	500 - 5,000 F.C.	0 - 50,000 LUX
ACCURACY		±10% (tested with standard single-plane tungsten lamps of 2854°K color temperature)	±10% (tested with standard single-plane tungsten lamps of 2854°K color temperature)
ANGLE DEVIATION		30°: -3% or less; 60°: -10% or less	30°: -3% or less; 60°: -10% or less
DIMENSION		4.4 x 2.3 x 1˝ (112 x 58 x 27mm)	4.4 x 2.3 x 1˝ (112 x 58 x 27mm)
WEIGHT		4.5 oz. (126g)	4.5 oz. (126g)

Subject to change without notice

ACCESSORIES FOR L-246 AND L-246LX

Slide (401834)
Item # SESL246....................7.95

Lumidisc Low Measure (401833)
Item # SELDLML246..........................9.95

Lumidisc High Measure (401832)
Item # SELDHML246........................12.95

SEKONIC
L 3 0 8 , L 3 9 8 M
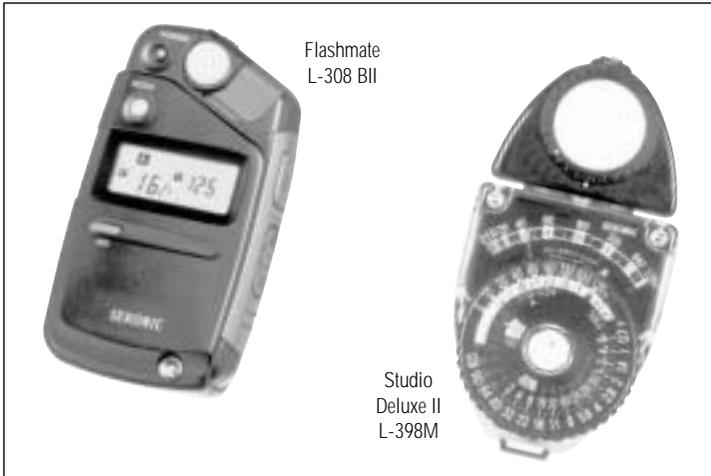
Flashmate
L-308 BII

Studio
Deluxe II
L-398M

Flashmate L-308 B II (401308)
The Flashmate L-308 B II is a small, compact, sleek and professional flashmeter, with a design that makes it the choice of professional as well as amateur photographers. It offers a direct readout on LCD display. Ambient of flash measurement can be selected by a single mode selection button. Incident or reflected light reading is selected by sliding a light receptor. With case, strap and battery.
Item # SEL308B2 ....**179.00**

Studio Deluxe II L-398M (401398)
The industry standard for incident and reflected light measurement. A swivel head and needle lock facilitate easy and accurate readings. Plus a memory pointer retains prior readings. The selenium photo-cell eliminates the need for batteries. Includes lumidisc for adjusting illumination contrast, measuring illumination intensity and lumi-grid for measuring reflected light. With lumidisc, lumisphere, lumi-grid, high-slide, case and strap.
Item # SEL398M **179.00**

ACCESSORIES FOR L-318B

Lumisphere Incident Light (401824)
Replacement.
Item # SELSL318B **11.95**

Lumigrid Reflected Light (401826)
Replacement.
Item # SELGL318B **11.95**

Lumidisc Contrast Light (401825)
Replacement.
Item # SELDL318B **11.95**

Long Case (401806)
Item # SECLL318B **26.95**

Case (401843)
Item # SECL318B **28.50**

Strap (Replacement) (401862)
Item # SESL318B **2.95**

ACCESSORIES FOR L-398M

**Lumisphere
Incident Light** (401821)
Replacement.
Item # SELSL398 ....**11.95**

Lumidisc Contrast Light (401822)
Replacement.
Item # SELDL398 ....**11.95**

Lumigrid Reflected Light (Replacement) (401823)
Item # SELGL398 ....**11.95**

Slide Set (401805)
This slide set contains eleven slides altogether, with a case. You can obtain a direct readout of the required exposure values by using these slides together with the L-28C2 or Studio Deluxe II L-398.
Item # SESSL398 ....**59.95**

SPECIFICATIONS FOR STUDIO DELUXE II AND DIGILITE METERS

MODEL	L-308 BII	L-318 BII	L-398M
PHOTO CELL	Silicon Photo Diode	Silicon Photo Diode	Selenium Cell
MEASURING SYSTEM	Ambient and Flash	Ambient	Ambient (Indent and Reflective)
DISPLAY READOUT	Digital L.C.D.	Digital LCD plus Analog LCD	Indicator Needle
FILM SPEED I.S.O.	3 to 8,000	3 to 8,000	6 to 12,000
F-STOP	F0.5 to F90	F1 to F90	F0.7 to F128
SHUTTER SPEED	1/8000 sec. to 60 sec.	1/8000 sec. to 30 min.	1/8000 sec. to 60 sec.
CINE	8 to 128 F.P.S.	8 to 128 F.P.S.	8 to 128 F.P.S.
SENSITIVITY AT 100 I.S.O.	EV0 to EV19.9	EV1 to EV19.9	EV4 to 17
SENSITIVITY AT FOOTCANDLES	-	One AA Battery	1 to 40,000
DIMENSIONS	4.3 x 2.5 x 0.9˝ (110 x 63 x 22mm)	4.8 x 2.5 x 9˝ (121 x 64 x 23mm)	4.4 x 2.3 x 1.3˝ (112 x 58 x 34mm)
WEIGHT	2.8 oz. (80g) without Battery	3.9 oz. (110g) w/o Battery	6.7 oz. (188g)
Subject to change without notice			

B&H
PHOTO - VIDEO - PRO AUDIO
Equipment Leasing Available

L 3 5 8 , L 5 5 8 , L 6 0 8 / L 6 0 8 C

Flash Master L-358 (401358)
Digital Incident, Reflected and Flash Light Meter
The L-358 Flash Master features flash / ambient analyzing in all flash modes, and an optional radio transmitter (connects with Wizard flash slaves) that eliminates the need for cord connections while measuring flash up to 100 feet away. Additional features include all weather design, nine memory banks, a retractable lumisphere, included Lumigrid attachment for reflected metering and large cool-blue electro-luminescent backlit LCD.
• Standard water resistance class 4, splash-proof
• Radio triggering with optional RT-32 Radio Transmitter Module
• Compatible with PocketWizard Radio Receivers
• Flash To Ambient Ratio
Item # SEL358..................**249.00**

Digital Radio Transmitter (401621)
Requires Wizard flash slaves.
Item # SERTM....................**25.00**

Dualmaster L-558 (401558)
The remarkable new Sekonic L-558 Dualmaster is the world's most sensitive multi-function meter, reading flash down to an astounding f2 (at ISO 100), twice as low as any other multi-function meter. And with the optional PocketWizard module inside, it becomes a Master Control Center. You can use it to fire individual cameras and flash units remotely, without wires, using a 16/24 bit, security encoded digital signal. Utilizing rubber seals throughout the housing and controls of the meter, the DualMaster is water and moisture resistant. Although the meter can be used in rainy or wet conditions, it should not be used underwater. The large LCD panel makes reading the data easy and convenient; the panel illuminates automatically in low-light surroundings. In order to retain the simple stylish look of the DualMaster, less frequently used functions and controls are confined to custom software functions.
Item # SEL558..**499.00**

Super Zoom Master L-608 (401608)
The Sekonic L-608 Super Zoom Master offers ambient and flash metering modes a parallax-free Zoom Spot finder with a digital display and all weather design. A built-in retractable incident Lumisphere for standard or cosine corrected light readings, provides both hemispherical and narrow angle readings. An optional radio transmitter (connects with Wizard flash slaves) that eliminates the need for cord connections while measuring flash up to 100 feet away
• Built-in parallax-free rectangular 1°- 4° spot zoom with digital display.
• Cord, Cordless, Multiple Exposure or Radio Triggering Flash Measurements • Flash To Ambient Ratio • Nine memory banks
• 11 Custom Function Settings • Radio triggering with optional RT-32 Radio Transmitter Module • Compatible with PocketWizards.
Item # SEL608..**699.00**

Super Zoom Master L-608C Cine (401610)
Item # SEL608C **769.00**

Digital Radio Transmitter (401621)
(Requires Wizard flash slaves)
Item # SERTM....................**25.00**

Flash Master
L-358

Dualmaster
L-558

Super Zoom
Master
L-608

SPECIFICATIONS FOR FLASH MASTER L-358, DIGILITE L-328, DUALMASTER L-558 and SUPER ZOOM MASTER L-608			
MODEL	**L-358**	**L-558**	**L-608**
PHOTO CELL	Silicon photo diodes	2 Silicon Photo Diodes	Silicon photo diodes
DISPLAY READOUT	Digital LCD plus LCD analog	Digital LCD plus Analog LCD	Digital LCD plus LCD analog
MEASURING SYSTEM	Ambient and Flash (cord, cordless, multi flash)	Ambient and Flash	Ambient and Flash (cord, cordless, multi flash)
FILM SPEED I.S.O.	3 to 8000	3 to 8,000	3 to 8000
F-STOP	F 1.0 to 90	F 0.5 - 128.9	F 0.5 to 128.9
SHUTTER SPEED - AMBIENT	1/8000 sec to 30 min.	1/8000 sec. to 30 min.	1/8000 sec to 30 min.
SHUTTER SPEED - FLASH	1/1000 sec to 30 min.	1/1000 sec. to 30 sec.	-
CINE SPEED	2 to 360 fps	2 to 360 fps	2 to 360 fps
ANGLE OF COVERAGE	54°	-	1-4°
SENSITIVITY AT 100 I.S.O.	EV -2 to 22.9	EV -9.9 to 46.6	EV -2 to 22.9
SENSITIVITY AT FOOTCANDLES	-	-	0.12 to 180,000
LUX RANGE	-	-	0.63 to 190,000
OTHER DATA	-	Water-resistent splash-proof design; Six custom program settings for frequently used features	-
POWER SOURCE	CR123A lithium battery	CR123A lithium battery	CR123A lithium batt.
DIMENSIONS	2.4 x 6.1 x 1.5˝ (60W x 155H x 37D mm)	3.5 x 6.7 x 1.9˝ (90 x 170 x 48mm) WDH	3.5 x 6.7 x 1.9˝ (90W x 170H x 48D mm)
WEIGHT	5.4 oz. (153g)	9.5 oz (268g)	9.5 oz.(268g)
Subject to change without notice			

S E K O N I C
Z O O M   M A S T E R   L 5 0 8

Zoom Master
L-508

The L-508 measures both reflected ambient and reflected flash, as well as mixed lighting. The unique zoom spot viewfinder is parallax-free and can be zoomed to the ideal measuring angle anywhere from 1° to 4° for any subject area or distance, without being restricted to a single narrow angle. The L-508's zoom spot feature is ideal for measuring distant objects, highly reflective surfaces, extreme contrast scenes, back-lighting situations, or specialized applications including the Zone System. The sealed, 9-element optical zoom viewfinder operates with a simple touch and accepts standard Nikon brand eyepiece diopters for eyeglass wearers. The L-508 is also a full-function incident meter for ambient, flash or mixed light measurement. Incident measurement allows the photographer to read the light falling on the subject, without being mislead by the subject's color or reflectance. The 270° swivel head permits ideal positioning of the retractable lumisphere allowing the photographer constant viewing of the large, easy to read digital display panel from any angle. The retractable, dual position function eliminates the need for interchangeable spherical and flat incident diffusers. In extended position, the lumisphere gives accurate incident measurement of normal scenes and lighting. In recessed position, the lumisphere acts as a flat diffuser and is used for directional, selective measurement and comparison/ control of shadow and highlight areas for determination of brightness range or lighting ratio, or measurement of flat surfaces for copy work.

Zoom Master L-508 (401508)
Item # SEL508..**469.00**

Zoom Master L-508C Cine (401510)
Item # SEL508C...**599.00**

SPECIFICATIONS FOR ZOOM MASTER L-508 AND DIGITAL SPOT F L-778

MODEL	L-508
PHOTO CELL	Silicon Photo Diode
MEASURING SYSTEM	Ambient and Flash Zoom
DISPLAY READOUT	Cool Blue Display
FILM SPEED I.S.O.	1 to 8,000
F-STOP	f/1 to f/128.9
SHUTTER SPEED	1/8000 sec. to 30 min.
CINE SPEED	2 F.P.S. to 360 F.P.S.
FLASH SYNC TIMES	1 to 1/1000 sec.
ANGLE OF COVERAGE	Incident 270°/Reflected 1° to 4°
SENSITIVITY AT 100 I.S.O.	EV-2 to EV19.9
VIEWFINDER	Variable 1° to 4° parallax-free spot
POWER SOURCE	One AA Battery
DIMENSIONS	3.3 x 6.1 x 1.6˝ (82 x 161 x 39mm)
WEIGHT	8.5 oz. (240g)

Subject to change without notice

ACCESSORIES FOR DIGITAL METERS

5° Optical Spot Viewfinder for L-318B and L-328 (401802)
Item # SESA5328................**89.95**

5° Optical Spot Viewfinder for L-718 (401803)
 # SEVF5L718....................**109.95**

Synchro Cord for all Flashmeters (401801)
 # SESCZ..............................**29.95**

Pinpoint Attachment for L-718 (401804)
 # SEFOAL718....................**39.95**

Lumidisc for L-308 BII (401830)
Item # SELDL308B2...........**19.95**

Lumidisc for L-328 (401825)
Item # SELDL328...............**11.95**

Lumidisc for L-718 (401828)
Item # SELDL718...............**11.95**

Lumisphere for L-328 (401824)
Item # SELSL328................**11.95**

Lumisphere for L-718 (401827)
Item # SELSL718................**11.95**

Lumigrid for L-718 (401829)
Item # SELGL718...............**11.95**

Case for L-328 (401844)
Item # SECL328..................**29.95**

Case for L-718 (401847)
Item # SECL718..................**73.95**

Case for L-778 (401848)
Item # SECL778..................**73.95**

Long Case for L-328 (401806)
Item # SECLL318B.............**26.95**

Strap (401862)
For L-328, L-408, L-718 and L-778.
Item # SESL328....................**2.95**

Case for L-408 (401846)
Item # SECL408..................**37.95**

Synchro Cord (401801)
Plugs between meter and flash. Allows triggering of the flash from the meter. For all Gossen flashmeters. 15½˝ cord. (5m)
Item # SESCZ.....................**29.95**

FLASHMETERS

Novatron Flashmeter

Wein WP-500B

Wein WP-1000

Portaflash Flashmeter

NOVATRON

Novatron Flashmeter (FM02)

The Novatron Flashmeter is small enough to fit in a shirt pocket. Its face plate lists the popular film speeds across the top row. To the left is a column of indicators. The meter is simple to use. Simply turn it on and fire a test flash. One of the indicators on the meter's face will illuminate. The illuminated indicator indicates the correct row of f/stops. To find which one is appropriate, match it to the proper film speeds noted on the top row. Because of its ease-of-use, this meter is excellent for the entry level photographer.

Item # NOFM02...**79.95**

PORTAFLASH

Portaflash Flashmeter (SPPORFM)

An economic and simple to use flashmeter. Accurate to 1/3 of a stop with over and under range indicators, cord and cordless triggering. An 8-stop range of f/2.8 to f/32 at I.S.O. 100 makes this flashmeter a great buy even for those photographers with a tight budget.

Item # SPFM **99.95**

WEIN

Flashmeter WP-500B (950010)

Reads the incident flash light from the electronic flash unit and integrates it with the ambient light to provide an accurate exposure light reading in direct f-stops up to F22. The reading is permanently recorded until the meter is manually reset.

Item # WEWP500B...**89.95**

Flashmeter WP-1000 (950020)

The Wein Flashmeter WP-1000 utilizes all the features of the WP-500B. The f/stop range is increased to f/90, and the meter readings are accurate to 1/6 of an f/stop.

Item # WEWP1000...**129.95**

SPECIFICATIONS FOR NOVATRON FLASHMETER	
MEASURING SYSTEM	Incident Flashmeter
DISPLAY READOUT	LED Array
FILM SPEED I.S.O.	25 to 400
F-STOP	F2.8 to F32½
FLASH SYNC	1/125 sec.
ANGLE COVERAGE INCIDENT LIGHT	35-135°
POWER SOURCE	9v Battery
DIMENSIONS	3.7 x 2.4 x 1˝ (95 x 60 x 25mm)
WEIGHT	2.5 oz. (72g)

Subject to change without notice

SPECIFICATIONS FOR PORTAFLASH FLASHMETER	
MEASURING SYSTEM	Flashmeter
DISPLAY READOUT	L.E.D. Array
FILM SPEED I.S.O.	50 to 400
F-STOP	F2.8 to F32
FLASH SYNC	1/60 sec.
ANGLE COVERAGE INCIDENT LIGHT	35 - 135°
POWER SOURCE	9v Battery
DIMENSIONS	4.5x2.5x1˝ (11.4x6.4 x2.5cm)
WEIGHT	2.5 oz. (70g)

Subject to change without notice

SPECIFICATIONS FOR WEIN FLASHMETERS		
MODEL	**WP-500B**	**WP-1000**
MEASURING SYSTEM	Incident Flashmeter	Incident Flashmeter
DISPLAY READOUT	Indicator Needle	Indicator Needle
FILM SPEED I.S.O.	25 to 1,600	25 to 6,400
F-STOP	F2 to F22	F2 to F90
FLASH SYNC	1/250 sec.	1/250 sec.
ANGLE COVERAGE INCIDENT LIGHT	-	-
POWER SOURCE	9v Battery	9v Battery
DIMENSIONS	4.3 x 2.8 x 1.9˝ (110 x 72 x 49mm)	4.3 x 2.8 x 1.9˝ (110 x 72 x 49mm)
WEIGHT	5 oz. (140g)	5.2 oz. (148g)

Subject to change without notice