

# SEKONIC

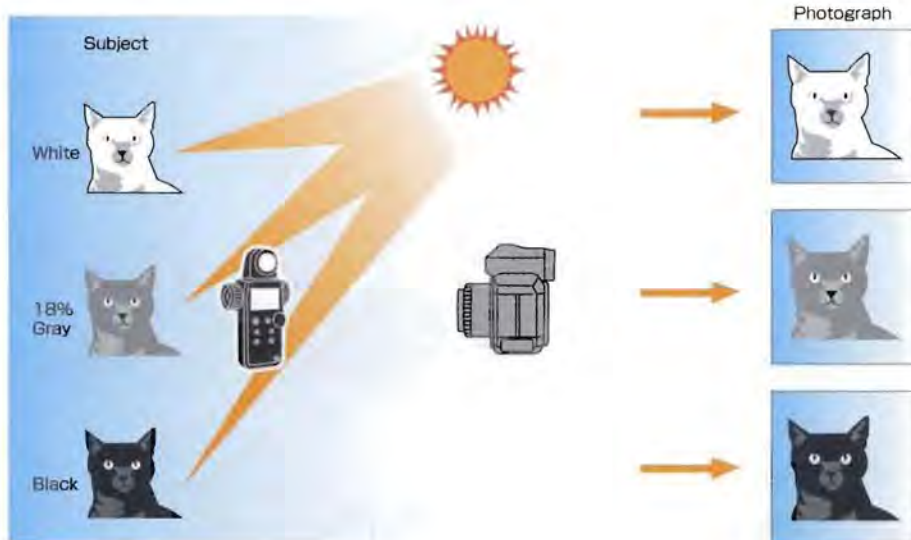
**Light meter**  
Full-lined Brochure





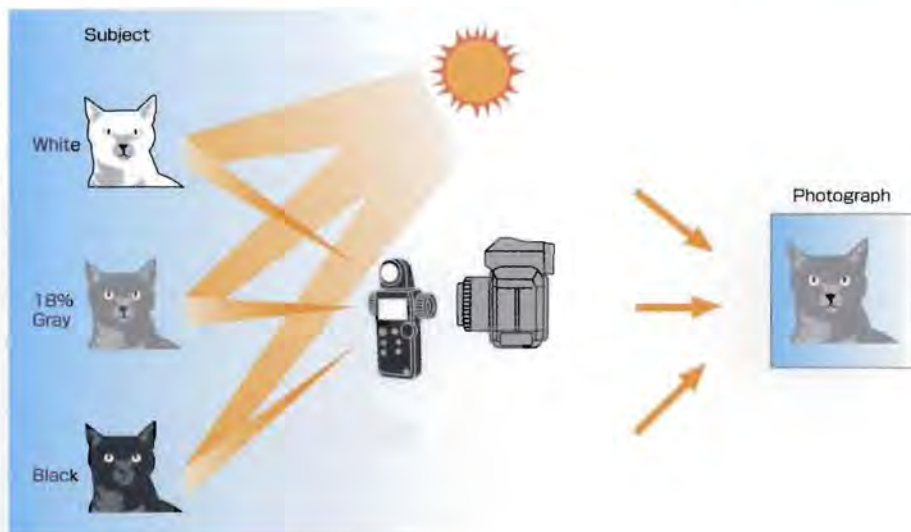
## BECAUSE, LIGHT IS THE CHALLENGE!!

The exposure can be controlled according to the desire of photographers by light meter if they know the benefits of using hand-held light meter and characteristics of each measurements below.



### Incident light measurement

Because incident metering reads the intensity of light falling on the subject, it provides readings that will create accurate and consistent rendition of the subject's tonality, color and contrasts regardless of reflectance, background color, brightness or subject textures. Subjects that appear lighter than middle gray to your eye will appear lighter in the finished image. Subjects that are darker than middle gray will appear darker. Colors will be rendered accurately and highlight and shadow areas will fall naturally into place.



### Reflected light measurement

Because reflected metering reads the intensity of light reflecting off of the subject, they are easily fooled by variances in tonality, color, contrast, background brightness, surface textures and shape. What you see is often not at all what you get. Reflected meters do a good job of reading the amount of light bouncing off of a subject — the trouble is they don't take into account any other factors in the scene. They are merciless in recording all things as a medium tone. Reflected measurements of any single tone area, for instance, will result in a neutral gray rendition of that object. Subjects that appear lighter than gray will reflect excess light and cause them to record darker than they appear. Subjects that are darker than gray will reflect less light and result in an exposure that renders it lighter.

## Comparison of photographs between incident measurement by hand-held light meter and reflected light measurement of camera's built-in meter

When taking pictures of the subject with white and black background by measured value of light meter (hand-held light meter or camera's built-in meter), the photos below show the different results.

Incident metering by hand-held light meter is not affected by reflectance of background. Accordingly, white appears white, and black appears black. However, Reflected metering by camera's built-in meter receives the effect of reflectance.

The photo in white background is underexposed and black background is overexposed.



By incident light measurement  
in white background



By reflected light measurement  
in white background



By incident light measurement  
in black background



By reflected light measurement  
in black background



## Lighting Control with Flash/Ambient Analyzing Function

By Flash/ambient analyzing function, the SEKONIC light meters simultaneously read both flash and ambient light automatically in order to analyze and display the exposure data in 3 convenient ways: 1) Combined readings of flash and ambient light, 2) Percentage of flash in the total exposure, and 3) Simultaneous display of flash, ambient and combined readings on the analog scale.

Although the histograms provide an interesting look at the distribution of tones, and indicate a difference in the effective contrast of the lighting, there's very little useful information regarding how these two different light sources relate to each other both in terms of light levels (ratio) and optimum exposure.



Ambient light Only



Flash Only



Combined ambient and flash light

## Push/Pull Processing?

In today's digital age, although the technology behind photography is much more advanced, obtaining professional quality results still require the best techniques and tools.

Digital capture has a dynamic range and latitude roughly comparable to transparency film. What this means is if you are used to properly exposing transparencies, you are off to a good start. But if you are accustomed to the wider exposure latitude (extra margin of exposure error) that color negative film gave you, it is time to change your thinking.

Although it may seem that any miracle can happen in the digital darkroom, correcting a bad exposure has its limits. At first glance it may look like it is possible to make corrections, but upon closer inspection you may notice that image quality has suffered in addition, the time spent on the computer fixing a bad exposure will far exceed the amount of time it takes to get it right in the camera.

As an example, look at Figure 1. In this case the exposure was calculated by built-in light meter in camera which read the excessive amount of light reflecting off of the white background and averaged it with the subject lighting in an attempt to reproduce a middle gray value.

This averaging caused underexposure of the image ("subject failure").

Figure 3 shows the same improperly exposed scene "fixed" in the computer.

For Figure 2 a handheld light meter measured the incident light falling on the subject to determine proper exposure, so Figure 4 looks great without any computer manipulation.

Although to some people images in both Figure 3 and 4 might be considered acceptable, when they are seen next to each other in Figure 5 it is clear that the "fixed" image is of much lower quality.

By using the computer software to "push" process the image it had to "stretch" the limited information and could not fill in or "fake" the missing data. This literally caused gaps on the range of tones as shown in the histogram.



Figure 1  
Built-in Camera Meter Exposure



Figure 3  
Digitally Pushed Correction



Figure 2  
Hand-held Light Meter Exposure



Figure 4  
No Compensation Required



Figure 5

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# World's First Multi-function Light Meter with Exposure Profiling and Wireless Triggering. DIGITALMASTER L-758 Series

The DIGITALMASTER L-758 Series was designed from its inception to offer today's digital and film shooter with repeatable precision, accurate measurement and digital exposure control that is necessary for today's photographer.

It offers cutting edge features never before available in any light meter and redefines what a light meter is and why it's a critical tool for digital exposure control.

## Measuring functions and features

### ① Exposure Profiling

Up to three digital camera exposure profiles can be stored and recalled. Once selected, the L-758 series can recall an exposure profile (from a digital camera or film) and display the dynamic range and clipping point on the aperture scale or EV scale. Any compensation value that is required to match the camera sensitivity is loaded into the appropriate measuring mode and automatically applied to all measurement's.

### ② Data Transfer Software

The L-758 series light meters have a USB port built-in to connect the light meter to a computer (Windows or MAC) with a USB cable. Exposure Profile Data is exchanged between the computer and the light meter using the Data Transfer Software, which enable the photographer to input the calibration compensation data directly in to the light meters programmable memory chip.

### ③ Mid.Tone Adjustment Mode

### ④ Built-in Radio Transmitter (L-758DR)

### ⑤ 1 Degree Spot with Digital Display

### ⑥ Full, 1/2 or 1/3 Step Selectable Readings

### ⑦ Flash Analyzing Function

### ⑧ Memorize Up to Nine Readings

In either aperture or shutter speed priority, it can memorize up to nine readings in incident and spot (reflected) mode simultaneously. Readings are on the aperture or EV scale.

### ⑨ Step Up Ring (Lens Hood)

The step up ring makes it possible to attach different diameter filters using the appropriate step-up adapters in front of the 1° spot lens (up to 40.5mm filter thread).

It also acts as a lens hood preventing erroneous light measurement caused by lens glare and flare.

### ⑩ Custom Setting

The Custom Setting mode provides a quick and easy setup of individual meter preferences. L-758DR/D have 14 settings and the L-758C<sub>CINE</sub> has 17 settings.

## Other Functions

- EV scale
- Average
- Multiple Flash (Cumulative)
- Aperture Priority
- Shutter Speed Priority
- EV (Exposure Value)
- All Weather Design
- Auto Back Light
- Retractable Lumisphere
- Exposure Compensation in Incident and Reflected independently
- Dual ISO (ISO1 and ISO2)
- Auto Power Off
- Battery Indicator
- CINE speed (f/s)
- Tripod Thread
- Diopter Adjustment
- Jog Wheel Lock

## Special Features for Cine and Video

### DIGITALMASTER L-758C<sub>CINE</sub>



## L-758C<sub>CINE</sub> Features

### ① Aperture Scale of F0.5 to F64 in 1/3 stop increments.

### ② Wide Range of CINE Speed from 1 to 1000 f/s

### ③ Filter Factor Compensation

When using L-758C<sub>CINE</sub> for cine/video exposures, it is possible to set 7 different frequently used types of filters. (Kodak Wratten Filters)

### ④ Shutter Angle settings are available from 1° to 10° in 1° increments, 15° to 270° in 5° increments, as well as 12°, 17°, 22°, 144° and 172°.

### ⑤ Illuminance and Luminance

It is possible to display Lux, Foot-Candle, Cd/m<sup>2</sup> and Foot-Lambert.



## Exposure Profiling

With its unique exposure profiling capabilities, the DIGITALMASTER L-758 series is the only light meter that can compensate and be calibrated to the sensitivity of your D-SLR, digital back or favorite film. Exposure latitude warning indicator, alert the photographers when the lighting situation is exceeding the dynamic range of the camera or film before the image is captured. To ensure repeatable accurate and consistent results for tonal range and digital exposure or film control, put the power of control in the palm of your hand, DIGITALMASTER.

### STEP 1

Photograph the Exposure Profiling Target (optional) with your camera, lighting (available or flash) and measuring method (incident or reflected light)



### STEP 2

Analyze the Exposure Profile Target with image-editing software, and input the data to Data Transfer Software. After input, connect PC and light meter via USB cable to transfer the data.



### STEP 3

Profiles can be stored and recalled. Setting the L-758DR to perfectly match specific digital cameras sensitivity is quickly done by selecting one of the camera memory modes (camera 1, camera 2 or camera 3).



CAMERA 1  
CAMERA 2  
CAMERA 3



Camera1 Latitude Warning on EV scale



Camera2: Aperture scale in Cord Flash mode with 'Inside range' display of dynamic range and clipping point



Camera3: High-end digital back with 'Outside range' display of dynamic range and clipping point

## Up to nine measured values can be memorized in both Incident and Reflected modes Independently or Combined

L-758 series can memorize measured values in both incident and reflected modes independently or combined. When the memorized values are combined it is possible to take a mid-tone measurement using the Lumisphere in incident mode, than take a spot highlight, and shadow measurement by simply switching to reflected measuring mode. Highlight and shadow tones can be measured and quickly viewed to determine if there are within the Dynamic range or Clipping points of the digital camera or type of film being used. In addition, the Mid.Tone value can be shifting to adjust the highlight or shadow to be within the range required.



Mid.Tone F5.6s



Measure and memorize the Highlight F16.0



Measure and memorize the Shadow F2.0s



### 1° Spot with Digital Display

The rectangular 1° spot viewfinder displays f-stops, shutter speed, percentage of flash and much more with an EL (Electronic-Luminescent) digital display. It can instantly be switched from incident to spot measurement mode. With its super sensitive sensor, the L-758 series can measure the reflected flash output down to an amazing f/2.0 and ambient measurements as low as EV1.

## Flash Analyzing Function

In all flash modes, the L-758 series simultaneously reads both flash and ambient light automatically in order to analyze and display the exposure data in 3 convenient ways:

1. Combined readings of flash and ambient
2. Percentage of flash in the total exposure
3. Simultaneous display of flash, ambient and combined readings on the analog scale.



Flash: 80%



Flash: 60%



Flash: 20%



Ambient Flash Combined flash/ambient



Percentage of flash in total exposure







## Setting the standard as the perfect choice of advanced features, ease of use and affordability. FLASH MASTER L-358



L-358 achieves high performance corresponding to all the expressions such as flash analyzing system and memory function in aperture priority mode by simple operativeness. Digital light meter mainly equipped with incident light measurement is the best for professional studio photographers.

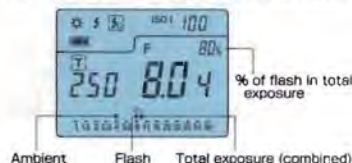
### Measuring functions and features

- ① **Flash analyzing function**
- ② **Setting of Aperture Value and Shutter Speed in 1, 1/2 or 1/3 Steps**
- ③ **Parallax free 1°, 5° and 10° precise spot metering viewfinders (optional)**
- ④ **Memory and Memory Recall Function (up to 9 memory banks)**  
Nine memory banks are available in both aperture priority and shutter priority modes, making contrast evaluation and averaging possible in both modes.
- ⑤ **Auto Backlight**  
Electro-Luminescent Display lights up automatically in low light. (6EV or less)
- ⑥ **Retractable, Removable and Rotating Lumisphere**  
You can select extended lumisphere (for 3-D object) or retracted lumisphere (for flat object) at one touch of a rotating the lumisphere retracting ring. A Lumigrid (reflected light receptor: 54°) and optional NP finder 1°, 5° and 10° easily attach to the meter in place of the removable Lumisphere.
- ⑦ **All-Weather Design**  
This meter has an All-whether design to endure rugged outdoor condition. (JIS standard water resistance class 4)

### Flash analyzing function

The ambient light, flash light and total amount of light are each displayed on the analog scale, and the ratio of flash light to the total amount of light is displayed at that time as a value in 10 % steps.

Now you can take ambient, flash or mixed lighting exposure measurements without fumbling with meter modes, switches or different displays.



### All-whether design

All buttons, switches and compartments are sealed and the meter housing has been designed to endure rugged outdoor conditions. Ideal for location shooting, at the beach, in rainy or humid environments.



### 1°, 5° and 10° Non Parallax Spot Viewfinders (Sold Separately)

The L-358 accepts optional spot finder attachments that extend the versatility of the meter with a choice of 1°, 5° or 10° spot measurements, which easily attach to the meter. Each spot finder features Parallax-free swiveling eye-piece for precise spot metering.



NP finder (1 degree)



NP finder (5 degree)



NP finder (10 degree)





# Small, Lightweight and New Improved Features

## Pocketable light meter: FLASHMATE L-308S

L-308S has been used from users widely as a professional sub-tool as well as amateur's entry-level model. It fits in a shirt pocket.



### Measuring functions and features

#### Clear Liquid Crystal Display

In LCD, it is easy to see the large readouts of aperture value and shutter speed in 1, 1/2 or 1/3 steps, in addition to battery power indicator and ISO sensitivity setting.



① Battery Power Indicator

② Measuring Mode icons

③ ISO Display

④ Aperture/EV display

⑤ Shutter Priority indicator, Shutter speed display for still photography or frames per second (f/s) for cinematography

#### Aperture value and shutter speed can be set in 1, 1/2 or 1/3 steps

It is possible to select aperture value and shutter speed in 1, 1/2, or 1/3 steps to match your digital or film cameras.

#### Simple and easy to use

L-308S is an all-round meter that can measure both ambient and flash light though it is simple operativeness with less operation buttons.

#### Switchable reflected or incident light measurement and removable lumidisc



##### Light receptor 1 (lumisphere)

Slide the mounting lumisphere to the left until it clicks to switch to incident light measurement.



##### Light receptor 2 (lens)

Slide the mounting lumisphere to the right until it clicks to switch to reflected light measurement.



##### Light receptor 3 (lumidisc)

Slide the mounting lumisphere to the right (same as if measuring reflected light), insert the lumidisc into slot of the light receiver to switch to lumidisc function mainly for flat subjects or measuring lighting contrast.



Data: F8.0s, T1/125



## Standard of analog light meter

Latest version of a long seller series during half a century:

## STUDIO DELUXE III L-398A

Long seller analog light meter used habitually by a lot of photographers because of design and shape fitting comfortably in user's hand.

### Measuring functions and features

#### Instant reading of aperture/shutter combinations with dial ring

It is possible to read combinations of aperture values and shutter speeds on the dial ring at one view.

#### Amorphous photosensor eliminates need for battery.

As light receptor element, amorphous photosensor is newly adopted. It is not necessary to bring replacement of batteries.

#### Continuous measurement

The needle is released by holding and turning measuring button. At this time, the meter will deflect freely even if the stopper button is released.



### How to Use L-398A



#### STEP 1

You can set ISO in ISO indicator by rotating ISO sensitivity selector knob.



#### STEP 2

Hold meter erect and press measuring button. Meter needle deflects according to brightness. When the measuring button is released, the oscillated meter needle becomes fixed at the deflected position.



#### STEP 3

Read footcandle value on footcandle scale measured by meter needle. Rotate dial ring to set scale mark to the footcandle value on dial scale.



#### STEP 4

At this time, the shutter speed scale and aperture scale combination on lower part of the dial ring becomes the correct exposure. You can compensate this exposure value regarding your photographing intention.



#### Slide set for L-398 series (sold separately)

A total of 11 slides are available, for direct reading of aperture on FC scale in incident measurement.



Data : F4.0o, T1/250



## Clip on light meter for both incident and reflected light measurement: Twinmate L-208



The Twinmate L-208 can be mounted on the camera's hot shoe using accessory shoe mounting plate.

Compact body and design fit in classic cameras without built-in exposure meter.

### Measuring functions and features

#### Instant reading of aperture/shutter combinations with dial ring

It is possible to read combinations of aperture values and shutter speeds on the dial ring at one view.

#### Shoe mounting on camera

The accessory shoe is mounted using shoe mounting plate.

The mounting location of the shoe mounting plate is variable and therefore mount it correctly for the camera that you are using.

#### One hand operation

It is possible to operate with one hand by using the guide needle position retained during 15 seconds after measurement.

#### Selection of reflected or incident light measurement at one touch of sliding the lumisphere.

You can select reflected or incident light measurement by sliding the lumisphere until it clicks.

The light receiving angle for reflected light is 33 degrees (approx. 73mm) corresponds to approx. 70% of angle for 50mm standard lens of 35mm SLR camera (approx. 46 degrees). Make measurements using the fan-shaped lines indicating 33° light receiving angle on the scale plate as a guide.

### How to Use L-208



**STEP 1**  
You can select incident or reflected measurement by sliding the lumisphere to the right or left until it clicks.



**STEP 2**  
You can set ISO in ISO indicator by rotating ISO switch over knob on the dial ring.



**STEP 3**  
Hold meter erect and Press measuring button to make a measurement. Release measuring button to complete the measurement after the oscillated guide needle stops.



**STEP 4**  
When the button is released, it will retain its position for about 15 seconds. Rotate dial ring during that time, align match needle with the guide needle. You can read combinations of aperture values and shutter speeds on the scale.





| SEKONIC                       |                                 |                                 | DIGITALMASTER<br>L-758C  |                                     | Digital light meter             | DIGITALMASTER<br>L-758DR/L-758D  |                                     |  |  |
|-------------------------------|---------------------------------|---------------------------------|--|-------------------------------------|---------------------------------|--|-------------------------------------|--|--|
| TYPE                          |                                 |                                 | Digital light meter for ambient and flash light  |                                     |                                 | Digital light meter for ambient and flash light  |                                     |  |  |
| Light receiving method        | Incident light                  | Swivel Head                     | 270° (Horizontal)  |                                     |                                 | 270° (Horizontal)  |                                     |  |  |
|                               |                                 | Lumidisc                        | Retractable  |                                     |                                 | Retractable  |                                     |  |  |
|                               | Reflected light                 | Switching of incident/reflected | Rotate   |                                     |                                 | Rotate   |                                     |  |  |
|                               |                                 | Light receiving angle           | 1 degree (built-in)  |                                     |                                 | 1 degree (built-in)  |                                     |  |  |
|                               | Flash light                     | Viewfinder (Optional)           | —  |                                     |                                 | —  |                                     |  |  |
| Measurement range (ISO100)    | Incident light                  | Ambient                         | EV -2 to EV 22.9   |                                     |                                 | EV -2 to EV 22.9   |                                     |  |  |
|                               |                                 | Flash                           | F0.5 to F161.2   |                                     |                                 | F0.5 to F161.2   |                                     |  |  |
|                               | Reflected light (built-in)      | Ambient                         | EV 1 to EV 24.4  |                                     |                                 | EV 1 to EV 24.4  |                                     |  |  |
|                               |                                 | Flash                           | F2.0 to F161.2   |                                     |                                 | F2.0 to F161.2   |                                     |  |  |
|                               | Reflected light (with Lumigrid) | Ambient                         | —  |                                     |                                 | —  |                                     |  |  |
|                               |                                 | Flash                           | —  |                                     |                                 | —  |                                     |  |  |
|                               | NP Finder (1°) (Optional)       | Ambient                         | —  |                                     |                                 | —  |                                     |  |  |
|                               |                                 | Flash                           | —  |                                     |                                 | —  |                                     |  |  |
|                               | NP Finder (5°) (Optional)       | Ambient                         | —  |                                     |                                 | —  |                                     |  |  |
|                               |                                 | Flash                           | —  |                                     |                                 | —  |                                     |  |  |
| NP Finder (10°) (Optional)    | Ambient                         | —                               |  |                                     | —                               |  |                                     |  |  |
|                               | Flash                           | —                               |  |                                     | —                               |  |                                     |  |  |
| Illuminance                   |                                 |                                 | 0.63 to 190,000 lux<br>0.10 to 180,000 foot-candle   |                                     |                                 | —  |                                     |  |  |
| Luminance                     |                                 |                                 | 0.25 to 190,000 candle/m <sup>2</sup><br>0.07 to 190,000 foot-lambert  |                                     |                                 | —  |                                     |  |  |
| Setting range                 | ISO sensitivity                 | ISO 1                           | ISO 3 to 8000 (in 1/3 steps)   |                                     |                                 | ISO 3 to 8000 (in 1/3 steps)   |                                     |  |  |
|                               |                                 | ISO 2                           | ISO 3 to 8000 (in 1/3 steps)   |                                     |                                 | ISO 3 to 8000 (in 1/3 steps)   |                                     |  |  |
|                               | Aperture                        | Display                         | F0.5 to F161   |                                     |                                 | F0.5 to F161   |                                     |  |  |
|                               |                                 | Step                            | in 1, 1/2 or 1/3 steps   |                                     |                                 | in 1, 1/2 or 1/3 steps   |                                     |  |  |
|                               | Shutter speed                   | Display                         | 30 min. to 1/8000 sec. (in 1, 1/2 or 1/3 steps) also 1/200, 1/400  |                                     |                                 | 30 min. to 1/8000 sec. (in 1, 1/2 or 1/3 step) also 1/200, 1/400   |                                     |  |  |
|                               |                                 | Step                            | in 1, 1/2 or 1/3 steps   |                                     |                                 | in 1, 1/2 or 1/3 steps   |                                     |  |  |
|                               | Cine speed                      | Display                         | 1 to 1,000 frames per second (43 cine speeds)  |                                     |                                 | 2 to 360 frames per second (28 cine speeds)  |                                     |  |  |
|                               |                                 | Step                            | 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   |                                     |                                 | 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   |                                     |  |  |
|                               | Flash light                     | Display                         | in 1, 1/2 or 1/3 steps   |                                     |                                 | in 1, 1/2 or 1/3 steps   |                                     |  |  |
|                               |                                 | Step                            | —  |                                     |                                 | —  |                                     |  |  |
| Display range                 | ISO sensitivity                 | ISO 1                           | ISO 3 to 8000 (in 1/3 steps)   |                                     |                                 | ISO 3 to 8000 (in 1/3 steps)   |                                     |  |  |
|                               |                                 | ISO 2                           | ISO 3 to 8000 (in 1/3 steps)   |                                     |                                 | ISO 3 to 8000 (in 1/3 steps)   |                                     |  |  |
|                               | Ambient light                   | Aperture                        | Integral value   | F0.5 to F161                        |                                 |  | F0.5 to F161                        |  |  |
|                               |                                 |                                 | Step   | in 1, 1/2 or 1/3 steps              |                                 |  | in 1, 1/2 or 1/3 steps              |  |  |
|                               |                                 |                                 | Decimal  | 0 to 9 (in 1/10 steps)              |                                 |  | 0 to 9 (in 1/10 steps)              |  |  |
|                               |                                 | Shutter speed                   | Analog scale   | F0.5 to F64 (in 1/3 steps)          |                                 |  | F0.7 to F90 (in 1/3 steps)          |  |  |
|                               |                                 |                                 | Integral value   | 30 min. to 1/8000 sec. 1/200, 1/400 |                                 |  | 30 min. to 1/8000 sec. 1/200, 1/400 |  |  |
|                               |                                 |                                 | Step   | in 1, 1/2 or 1/3 steps              |                                 |  | in 1, 1/2 or 1/3 steps              |  |  |
|                               | Cine speed                      | Analog scale                    | —  |                                     |                                 | 4 sec. to 1/4000 sec. (in 1/2 steps)   |                                     |  |  |
|                               |                                 | Display                         | 1 to 1,000 frames per second (43 cine speeds)  |                                     |                                 | 2 to 360 frames per second (28 cine speeds)  |                                     |  |  |
|                               | Flash light                     | EV                              | Display  | EV -9.9 to 46.6 (1/10 steps)        |                                 |  | EV -9.9 to 46.6 (1/10 steps)        |  |  |
|                               |                                 |                                 | Analog scale   | -7EV to +7EV                        |                                 |  | -7EV to +7EV                        |  |  |
|                               |                                 | Aperture                        | Integral value   | F0.5 to F161                        |                                 |  | F0.5 to F161                        |  |  |
|                               |                                 |                                 | Decimal  | 0 to 9 (in 1/10 steps)              |                                 |  | 0 to 9 (in 1/10 steps)              |  |  |
|                               | Shutter speed                   | Step                            | in 1, 1/2 or 1/3 steps   |                                     |                                 | in 1, 1/2 or 1/3 steps   |                                     |  |  |
|                               |                                 | Display                         | 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   |                                     |                                 | 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   |                                     |  |  |
|                               | Flash analyzing function        |                                 |  | Display                             |                                 |  | 0 to 100% (in 10% steps)            |  |  |
|                               | Repeat accuracy                 |                                 |  | +/-0.1 EV                           |                                 |  | +/-0.1 EV                           |  |  |
| Calibration constant          | Incident light                  | Lumisphere C=340 Lumidisc C=250 |  |                                     | Lumisphere C=340 Lumidisc C=250 |  |                                     |  |  |
|                               | Reflected light                 | K=12.5                          |  |                                     | K=12.5                          |  |                                     |  |  |
| Operating temperature range   |                                 |                                 | -10 to 50° C   |                                     |                                 | -10 to 50° C   |                                     |  |  |
| Storage temperature range     |                                 |                                 | -20 to 60° C   |                                     |                                 | -20 to 60° C   |                                     |  |  |
| Light receptor element        |                                 |                                 | 2-Silicon photo diodes (incident and reflected)  |                                     |                                 | 2-Silicon photo diodes (incident and reflected)  |                                     |  |  |
| Battery used                  |                                 |                                 | 1xCR123A battery (lithium dry cell)  |                                     |                                 | 1xCR123A battery (lithium dry cell)  |                                     |  |  |
| Dimensions                    |                                 |                                 | 90 w × 170 h × 48 d mm   |                                     |                                 | 90 w × 170 h × 48 d mm   |                                     |  |  |
| Weight                        |                                 |                                 | 268 g (with battery)   |                                     |                                 | 268 g (with battery)   |                                     |  |  |
| Standard accessories supplied |                                 |                                 | Soft case, Strap, Lens cap, USB-cable, Synchro terminal cap, CR-123A lithium battery x 1, Quick guide, Sticker for Multi-key Operation and CS, Software in CD-ROM  |                                     |                                 | Soft case, Strap, Lens cap, USB-cable, Synchro terminal cap, CR-123A lithium battery x 1, Quick guide, Sticker for Multi-key Operation and CS, Software in CD-ROM  |                                     |  |  |
| Main functions                |                                 |                                 | ·Illuminance ·Luminance ·Shutter angle setting ·Filter factor compensation ·Wide range of cine speed setting ·Exposure Profiling ·EV scale ·17 items of custom settings ·Latitude warning ·USP port ·Flash/ambient analyzing function ·Full, 1/2, 1/3 step selectable readings ·Nine memory banks for aperture value ·Average function ·Contrast function ·Flash Cumulative mode ·Shutter speed priority mode ·Aperture priority mode ·EV (Exposure Value) mode ·All weather design ·Automatic backlight ·Independent exposure compensation for incident and reflected light ·Setting two ISO sensitivity ·Auto power off ·Battery power Indicator ·Jog wheel Lock ·Dioptr adjustment ·Tripod socket |                                     |                                 | ·Exposure Profiling ·EV scale ·14 items of custom setting ·Latitude warning ·USP port ·Flash/ambient analyzing function ·Full, 1/2, 1/3 step selectable readings ·Nine memory banks for aperture value ·Average function ·Contrast function ·Flash Cumulative mode ·Shutter speed priority mode ·Aperture priority mode ·EV (Exposure Value) mode ·All weather design ·Automatic backlight ·Independent exposure compensation for incident and reflected light ·Setting two ISO sensitivity ·Auto power off ·Battery power Indicator ·Jog wheel Lock ·Dioptr adjustment ·Tripod socket |                                     |  |  |



|  |  | Analog light meter  |  |
|--|--|---|--|
| Flash Master<br>L-358  | Flashmate<br>L-308S  | Studio Deluxe III<br>L-398A                                     | Twinmate<br>L-208  |
| Digital light meter for ambient and flash light  | Digital light meter for ambient and flash light  | Analog light meter for ambient light                            | Analog light meter for ambient light   |
| 270° (Horizontal)  | Fixed  | 300° (Horizontal)   | Fixed  |
| Retractable  | Removable  | Removable   | —  |
| Removable  | Slide  | Removable   | Slide  |
| 54 degree (Lumigrid)   | 40 degree (built-in)   | 30 degree (Lumigrid)  | 33 degree (built-in)   |
| 1, 5, 10 degrees (NP finders)  | —  | —   | —  |
| ○ (up to ∞ flash reading)  | —  | —   | —  |
| ○  | ○  | —   | —  |
| Yes(optional)  | —  | —   | —  |
| EV -2 to EV 22.9   | EV 0 to EV 19.9  | EV 4 to EV 17   | EV 3 to EV 17  |
| F1.0 to F90.9  | F1.4 to F90.9  | —   | —  |
| —  | EV 0 to EV 19.9  | —   | EV 3 to EV 17  |
| —  | F1.4 to F90.9  | —   | —  |
| EV -2 to EV 22.9   | —  | EV 9 to EV 17   | —  |
| F1.0 to F90.9  | —  | —   | —  |
| EV 5 to EV 24.4  | —  | —   | —  |
| F8.0 to F90.9  | —  | —   | —  |
| EV 3 to EV 24.4  | —  | —   | —  |
| F4.0 to F90.9  | —  | —   | —  |
| EV 2 to EV 24.4  | —  | —   | —  |
| F2.8 to F90.9  | —  | —   | —  |
| —  | —  | —   | —  |
| —  | —  | —   | —  |
| —  | —  | —   | —  |
| —  | —  | —   | —  |
| ISO 3 to 8000 (in 1/3 steps)   | ISO 3 to 8000 (in 1/3 steps)   | ISO 6 to 12000 (in 1/3 steps)                                   | ISO 12 to 12500 (in 1/2 steps)   |
| ISO 3 to 8000 (in 1/3 steps)   | —  | —   | —  |
| F1.0 to F90  | F1.4 to F90  | —   | —  |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | —   | —  |
| 30 min. to 1/8000 sec. (in 1, 1/2 or 1/3 step) also 1/200, 1/400   | 60 sec. to 1/8000 sec.   | —   | —  |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | —   | —  |
| 2 to 360 frames per second (28 cine speeds)  | 8 to 128 frames per second (10 cine speeds)  | —   | —  |
| 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   | 1 sec. to 1/500 sec. 1/75, 1/80, 1/90, 1/100   | —   | —  |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | —   | —  |
| ISO 3 to 8000 (in 1/3 steps)   | ISO 3 to 8000 (in 1/3 steps)   | ISO 6 to 12000 (in 1/3 steps)                                   | ISO 12 to 12500 (in 1/3 steps)   |
| ISO 3 to 8000 (in 1/3 steps)   | —  | —   | —  |
| F1.0 to F90  | F0.5 to F90  | F0.7 to F128  | F1.4 to F32  |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | in 1/3 steps  | in 1/2 steps   |
| 0 to 9 (in 1/10 steps)   | 0 to 9 (in 1/10 steps)   | —   | —  |
| F1.0 to F90 (in 1/2 steps)   | —  | —   | —  |
| 30 min. to 1/8000 sec. 1/200, 1/400  | 60 sec. to 1/8000 sec.   | 60 sec. to 1/8000 sec.  | 30 sec. to 1/8000 sec.   |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | in 1 step   | in 1 step  |
| 2 sec. to 1/4000 sec. (in 1/2 steps)   | —  | —   | —  |
| 2 to 360 frames per second (28 cine speeds)  | 8 to 128 frames per second (10 cine speeds)  | 8 to 128 frames per second (5 cine speeds)                      | —  |
| EV -9.9 to 40.6 (1/10 steps)   | EV -5 to 26.2 (1/10 steps)   | EV 1 to 20 (1/3 steps)  | EV 3 to 17 (1/2 steps)   |
| —  | —  | —   | —  |
| F1.0 to F90  | F0.5 to F90  | —   | —  |
| 0 to 9 (in 1/10 steps)   | 0 to 9 (in 1/10 steps)   | —   | —  |
| in 1, 1/2 or 1/3 steps   | in 1, 1/2 or 1/3 steps   | —   | —  |
| 30 min. to 1/1000 sec. 1/75, 1/80, 1/90, 1/100, 1/200, 1/400   | 1 sec. to 1/500 sec. 1/75, 1/80, 1/90, 1/100   | —   | —  |
| 0 to 100% (in 10% steps)   | —  | —   | —  |
| +/-0.1 EV  | +/-0.1 EV  | —   | —  |
| Lumisphere C=340 Lumidisc C=250  | Lumisphere C=340 Lumidisc C=250  | Lumisphere C=340  | Lumisphere C=340   |
| K=12.5   | K=12.5   | K=12.5  | K=12.5   |
| -10 to 50° C   | 0 to 40° C   | 0 to 40° C  | 0 to 40° C   |
| -20 to 60° C   | -20 to 60° C   | -20 to 60° C  | -20 to 60° C   |
| Silicon photo diodes   | Silicon photo diodes   | Amorphous photosensor   | Silicon photo diodes   |
| 1xCR123A battery (lithium dry cell)  | 1x1.5-volt battery (alkaline, manganese or lithium)  | —   | 1x3V coin-type CR2032 lithium battery  |
| 57 w × 155 h × 25 d mm   | 63 w × 110 h × 22 d mm   | 58 w × 112 h × 34 d mm  | 45 w × 65 h × 24 d mm  |
| 153 g (with battery)   | 95 g (with battery)  | 190 g   | 45 g (with battery)  |
| Lumigrid, Soft case, Strap, Synchro Terminal cap,<br>CR123A lithium battery × 1  | Soft case, Strap, Lumidisc, Soft case for<br>Lumidisc, Synchro terminal cap,<br>Type-AA 1.5-volt battery   | Lumisphere, Lumidisc, Lumigrid, Strap,<br>Soft case, High slide | Soft case, Strap, Battery,<br>Shoe mounting plate (with Screw, O-ring)   |
| Flash/ambient analyzing function · Full, 1/2, 1/3 step<br>selectable readings of aperture value and shutter speed ·<br>Nine memory banks for aperture value and shutter speed ·<br>Average function · Contrast function · Cumulative mode ·<br>Shutter speed priority mode · Aperture priority mode ·<br>EV (Exposure Value) mode · All weather design · Auto<br>backlight · Setting two ISO sensitivity · Auto power off<br>Battery power indicator · Cine speed setting · Jog wheel<br>lock · Optional spot viewfinder | Full, 1/2, 1/3 step selectable readings of<br>aperture value and shutter speed · Shutter<br>speed priority mode · EV (Exposure Value)<br>mode · Auto power off · Battery power indicator<br>Cine speed setting | Continuous measuring · Memo pointer · Cine<br>speed scale       | Shoe mounting on camera · Retaining of<br>measuring needle · Match needle · EV<br>(Exposure Value) reading · Battery indicator |





## Step-up ring for L-558 series (30.5 → 40.5mm)

The step-up ring, available as an optional accessory, makes it possible to mount step rings and filters of other manufacturers. This simplifies the setting of exposure without the troublesome correction calculation of PL filters, etc. The step-up ring can also be used as a hood to protect lenses from scratching, soiling, etc.



## Mini light receptor for L-358

Incident light receiving unit with a compact 12mm diameter light receiving surface. For measuring narrow areas used for photographing small subjects or copy work.



## Non-Parallax Viewfinders for L-358 (NP finders)

There are three types of NP finders with ordinary waterproof structure and angles of coverage of 1, 5 and 10 degree. Since the single-lens reflex method is employed, it is possible to measure as aimed without parallax.



## Slide set for L-398 series

A total of 11 slides are available, for direct reading of aperture on FC scale in incident measurement.



## 18% Standard Gray Card

Standard reflector is a 18% gray card with cover (110mm x 102mm, 4 1/4" x 3 1/2"), folds to 2 3/4" x 4 3/4", and fits in a shirt pocket. It provides accurate exposures regardless of reflectance ratio of the subject and surroundings.



## Synchro cord

This is a five-meter long cord with three plugs. A light meter, a camera, and a flash can all be connected at the same time. This is convenient when measurements are made, because it is not necessary to plug and unplug the synchro cord.



## Radio Triggering Module RT-32FCC/CE (for L-358, L-758D and L-758CINE)

The Radio Transmitter Module plugs directly into a built-in compartment behind the battery door, and triggers the electronic flash units wirelessly as the meter takes a measurement. Channel ID's are easily selected through the meter's built-in software. (CH1 to 16 Single Remote triggering, CH17 to 32 Remote control "Quad Triggering Zone"), compatible with PocketWizard® Digital radio triggering systems.



## Exposure Profile Target

This is a Scale Test target for Exposure Profiling and meter calibration (The size is 290 x 180mm = 11" x 7"). One side is nine gray patches including black and white, and the other side is 18% gray card for digital camera white balancing and spot metering.

The other side is 18% gray card

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