# A CLIP ON LIGHT METER FOR BOTH INCIDENT & REFLECTED LIGHT MEASUREMENT

**The twinmate L-208 can be mounted on the camera's hot shoe using the accessory shoe mounting plate. The compact design fits nicely on classic cameras without built-in exposure meters**

## 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; 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

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

Pressing the measure button causes the meter needle to deflect according to brightness level. When the measuring button is released, the red guide needle stops at a fixed position for 15 seconds indicating the measured values.

### Step 4

Rotate dial ring to align the green match needle with the red guide needle. Any of the corresponding shutter speed and aperture combinations will provide the correct exposure.

# Specification and Comparison Chart



| Product Name and Model | | | L-858D | L-478DR series |
|---|---|---|---|---|
| **Measuring System** | Incident light | Swivel head | Horizontal (270 degrees) | Horizontal (270 degrees) |
| | | Lumidisc | Retractable | Retractable |
| | Reflected light | Switching incident/reflected | Operation on LCD | Removable |
| | | Light receiving angle | 1° (Built-in) | VF 5° (Optional VF) |
| **Measuring Mode** | Ambient light | T priority | Yes | Yes |
| | | F priority | Yes | Yes |
| | | TF priority | Yes | Yes |
| | | HD_CINE (T priority) | Yes | Yes |
| | | CINE (f/s priority) | Yes | Yes |
| | | Lux/FC | Yes | Yes (w/Optional VF) |
| | | Cd/m$^2$/FL | Yes | Yes (w/Optional VF) |
| | Flash light | Cordless/cord-in | Yes | Yes |
| | | Radio triggering | Yes (optional) | Yes (Built-in) |
| | | Multiple cumulative flash | Yes (Unlimited) | Yes (99 times) |
| | | HSS | Yes | No |
| | | Flash duration analysis | Yes | No |
| **Measuring Range (ISO100)** | Ambient | Incident light | EV | -5 to 22.9 | -2 to 22.9 |
| | | Reflected light | EV | -1 to 24.4 | 3 to 22.9 |
| | | Illuminance | Lux | 0.1 to 2,000,000 lx | 0.63 to 2,000,000 lx |
| | | | FC (Foot-Candle) | 0.01 to 180,000 fc | 0.10 to 180,000 fc |
| | | Luminance | Cd/m$^2$ | 0.1 to 980,000 cd/m$^2$ | 1.0 to 980,000 cd/m$^2$ |
| | | | FL (Foot-Lambert) | 0.03 to 290,000 fl | 0.29 to 290,000 fl |
| | Flash | Incident light | F | F0.5 to F161.2(=128.9) | F1.0 to F161.2(=128.9) |
| | | Reflected light | F | F1.0 to F161.2(=128.9) | F2.8 to F161.2(=128.9) |
| | | Illuminance | Lux・s | No | No |
| | | | FC (Foot-Candle)・s | No | No |
| **Display/Setting Range** | ISO Sensitivity | | 3 to 13,107,200 plus 850 | 3 to 409,600 plus 850 |
| | Ambient | Aperture | Range | F0.5 to 161.2 (=128.9) in 1, 1/2, 1/3 step | F0.5 to 161.2 (=128.9)) in 1, 1/2, 1/3 step |
| | | | Analog scale | F1.0 to 90 in 1/3 step | F1.0 to 90 in 1/3 step |
| | | Shutter speed | Range | 30m to 1/64,000s in 1, 1/2, 1/3 step | 30m to 1/64,000s in 1, 1/2, 1/3 step |
| | | | Analog scale | 4s to 1/2,000s in 1/3 step | 4s to 1/2,000s in 1/3 step |
| | | Frame Rate | Range | 1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 99,999.999) | 1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 9,999.999) |
| | | Shutter angle | degrees | 1 to 358 deg. plus other 20 settings (customized from 0.001 to 360) | 1 to 358 deg. plus other 20 settings (customized from 0.001 to 360) |
| | | EV | Range | -73.9 to 103.8 for incident -69.9 to 105.3 for reflected | -27.9 to 55.8 |
| | | | Analog scale | -3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected | -3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected |
| | Flash | Aperture | Range | F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step | F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step |
| | | | Analog scale | F0.1 to 90 in 1/3 step | F1.0 to 90 in 1/3 step |
| | | Shutter speed | Range | 30m to 1/16,000s in 1, 1/2, 1/3 step | 30m to 1/1,000s in 1, 1/2, 1/3 step |
| | | Flash duration | Range | 1/40 to 1/55,500s (25ms to 18us) | No |
| | | | t value | 0.1 to 0.9 (in 0.1 step) | No |
| **Functions** | | Exposure Profile | Yes | Yes |
| | | Memory | Yes (9 times) both incident and spot | Yes (9 times) |
| | | Average | Yes | Yes |
| | | Contrast Function | Yes (+/-9.9EV in 1/10 step) | Yes (+/-9.9EV in 1/10 step) |
| | | Flash Analyzing | Yes (in 10% step) | Yes (in 10% step) |
| | | Filter compensation | Yes (-12 to 12EV) | Yes (-12 to 12EV) |
| | | Filter factor number compensation | Yes (preset 24 types plus 6 settings) | Yes (preset 24 types plus 6 settings) |
| | | Exposure compensation | Yes (-9.9 to +9.9) | Yes(-9.9 to +9.9) |
| | | Calibration compensation | Yes (-1.0 to +1.0) | Yes(-1.0 to +1.0) |
| | | Custom settings | Yes (17 items) | Yes (13 items) |
| | | LCD backlight | Yes | Yes |
| | | Water registance | Yes | No |
| | | Diopter adjustment | Yes (-1 to 2.5 D) | No |
| | | Tripod socket | Yes | No |
| **Others** | | Operating temperature | -10 to 50℃ | -10 to 50℃ |
| | | Storage temperature | -20 to 60℃ | -20 to 60℃ |
| | | Power source | 1.5V x 2 (AA battery) | 1.5V x 2 (AAA battery) |
| | | Weight (without battery) | 240g | 140g |
| | | Dimensions (W x H x D) | 94 x 176 x 49 | 57 x 140 x 26 |
| | | LCD | 2.7" color dot matrix LCD | 2.7" color dot matrix LCD |
| **Standard Accessory** | | Software/Utility | Yes (Downloaded from website) | Yes (Downloaded from website) |
| | | Operating Manual | Yes (Downloaded from website) | Yes (Downloaded from website) |
| | | Quick Guide / Start Up Guide | Yes (included in the package) | Yes (included in the package) |
| | | Lens Cap | Yes | No |
| | | Strap | Yes | Yes |
| | | Synchro terminal cap | Yes (built-in) | Yes (built-in) |
| | | Soft case | Yes | Yes |
| | | Lumidisc | Yes (same as Lumisphere) | Yes (same as Lumisphere) |
| | | Anti glare film | Yes | Yes |
| **Optional Accessory** | | Viewfinder | No | Yes (5°) |
| | | Lumishphere | Yes | Yes |
| | | Lumidisc | Yes (same as Lumisphere) | Yes (same as Lumisphere) |
| | | Lumigrid | No | No |
| | | Deluxe case | No | Yes |
| | | Synchro cord | Yes | Yes |
| | | Radio transmitter | Yes | No (built-in PCB) |
| | | Step-up ring | Yes | No |
| | | 18% Gray card (folded) | Yes | Yes |
| | | Exposure Profile Target / II | Yes | Yes |

| L-478D | L-308X | L-398A | L-208 |
|---|---|---|---|
| Horizontal (270 degrees) | No | Horizontal (300 degrees) | No |
| Retractable | Removable (Optional) | Removable | No |
| Removable | Slide | Removable | Slide |
| VF 5° (Optional VF) | 40° (Built-in) | 30° (Lumigrid) | 33° (Lumigrid) |
| Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes |
| Yes | No | No | No |
| Yes | Yes | Yes | No |
| Yes | Yes | Yes | No |
| Yes (w/Optional VF) | Yes | Yes (FC only) | No |
| Yes (w/Optional VF) | No | No | No |
| Yes | Yes | No | No |
| No | No | No | No |
| Yes (99 times) | No | No | No |
| No | No | No | No |
| No | No | No | No |
| -2 to 22.9 | 0 to 19.9 | 4 to 17 | 3 to 17 |
| 3 to 22.9 | 0 to 19.9 | 9 to 17 | 3 to 17 |
| 0.63 to 2,000,000 lx | 2.50 to 190,000 lx | No | No |
| 0.10 to 180,000 fc | 0.23 to 17,000 fc | 0 to 1,250 fc (scale) | No |
| 1.0 to 980,000 cd/m$^2$ | No | No | No |
| 0.29 to 290,000 fl | No | No | No |
| F1.0 to F161.2(=128.9) | F1.0~F90.9 | No | No |
| F2.8 to F161.2(=128.9) | F1.0~F90.9 | No | No |
| No | No | No | No |
| No | No | No | No |
| 3 to 409,600 plus 850 | 3 to 8,000 plus 850 | 6 to 12,000 | 12 to 12,500 |
| F0.5 to 161.2 (=128.9)) in 1, 1/2, 1/3 step | F0.5 to 90.9 in 1, 1/2, 1/3 step | F0.7 to 128 in 1, 1/3 step | F1.4 to 32 in 1, 1/2 step |
| F1.0 to 90 in 1/3 step | No | No | No |
| 30m to 1/64,000s in 1, 1/2, 1/3 step | Photo Mode: 60s to 1/8,000s HD_CINE Mode: 1/8s to 1/8,000s in 1, 1/2, 1/3 step | 60s to 1/8,000s in 1 step | 30s to 1/8,000s in 1 step |
| 4s to 1/2,000s in 1/3 step | No | No | No |
| 1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 9,999.999) | 8 to 128f/s | 8, 18, 24, 64, 128 | No |
| 1 to 358 deg. plus other 20 settings (customized from 0.001 to 360) | 45, 90, 180, 270, 360: CINE Mode | No | No |
| -27.9 to 55.8 | -6 to 27.2 | 1 to 20 | 3 to 17 |
| -3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected | No | No | No |
| F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step | F0.5 to 90.9 in 1, 1/2, 1/3 step | No | No |
| F1.0 to 90 in 1/3 step | No | No | No |
| 30m to 1/1,000s in 1, 1/2, 1/3 step | 1s to 1/500s in 1, 1/2, 1/3 step | No | No |
| No | No | No | No |
| No | No | No | No |
| Yes | No | No | No |
| Yes (9 times) | No | Yes (1 meory with indicator) | No |
| Yes | No | No | No |
| Yes (+/-9.9EV in 1/10 step) | No | No | No |
| Yes (in 10% step) | No | No | No |
| Yes (-12 to 12EV) | No | No | No |
| Yes (preset 24 types plus 6 settings) | No | No | No |
| Yes(-9.9 to +9.9) | No | No | No |
| Yes(-1.0 to +1.0) | Yes (-1.0 to +1.0) | No | No |
| Yes (13 items) | Yes (3 items) | No | No |
| Yes | Yes (under EV5) | No | No |
| No | No | No | No |
| No | No | No | No |
| No | No | No | No |
| -10 to 50℃ | 0 to 40℃ | 0 to 40℃ | 0 to 40℃ |
| -20 to 60℃ | -20 to 60℃ | -20 to 60℃ | -20 to 60℃ |
| 1.5V x 2 (AAA battery) | 1.5V x 1(AA battery) | No battery (amorphous sensor) | 3.0V × 1(CR2032 battery) |
| 130g | 80g | 190g | 40g |
| 57 x 140 x 26 | 63 x 110 x 22 | 58 × 112 × 34 | 45 × 65 × 24 |
| 2.7" color dot matrix LCD | B&W, Segment type | No | No |
| Yes (Downloaded from website) | No | No | No |
| Yes (Downloaded from website) | Yes (Downloaded from website) | Yes (included in the package) | Yes (included in the package) |
| Yes (included in the package) | Yes (included in the package) | Yes (included in the package) | Yes (included in the package) |
| No | No | No | No |
| Yes | Yes | Yes | Yes |
| Yes (built-in) | Yes | No | No |
| Yes | Yes | Yes | Yes |
| Yes (same as Lumisphere) | No (Optional) | Yes | No |
| Yes | No | No | No |
| Yes (5°) | No | No | No |
| Yes | No (built-in) | Yes | No (built-in) |
| Yes (same as Lumisphere) | Yes | Yes | No |
| No | No | Yes | No |
| Yes | No | Yes | No |
| Yes | Yes | No | No |
| No | No | No | No |
| No | No | No | No |
| Yes | Yes | Yes | Yes |
| Yes | No | No | No |