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# SPOTMETER F

Professional 1° spotmeter  
for flash and ambient measurements

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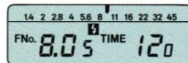


# For precise, 1° spot readings of flash and ambient light, contrast measurements, exposure biasing, and more.

Minolta's Spotmeter F is designed for professionals and advanced amateurs alike. It enables you to take precise 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. Furthermore, you can quickly check the lighting contrast of a scene while looking through the viewfinder. Exposure calculations for highlights, shadows, or midtone areas can be made at the touch of a button, and more.

## Flash measurements

Flash measurements are extremely easy to make with the Spotmeter F. You just select flash mode, connect the flash sync cord, and set the X-sync speed from 1/1000 to 1 second. To take a measurement, center the 1° spot circle in the finder on the subject, and press the measuring button to fire the flash. The required f-number (with tenth-stop accuracy) is digitally displayed in the finder and the external LCD panels. Ambient readings are just as easy—just set the shutter speed and press the measuring button!

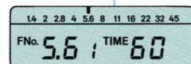
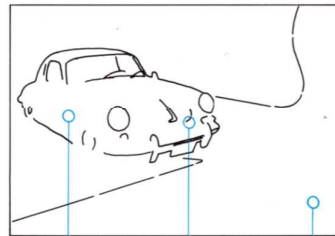


Required f-number

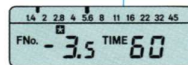


## Brightness-difference measurements

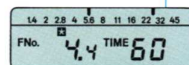
After determining the proper exposure settings, you can quickly check the lighting contrast between the metered area and other areas. When the highlight, shadow, or average key is pressed, a "star" mark appears along with the digital exposure readout. By holding in the measuring button, the meter displays the differences in brightness between the metered area and area currently being measured. When the measuring button is released, the digital exposure readout is displayed again.



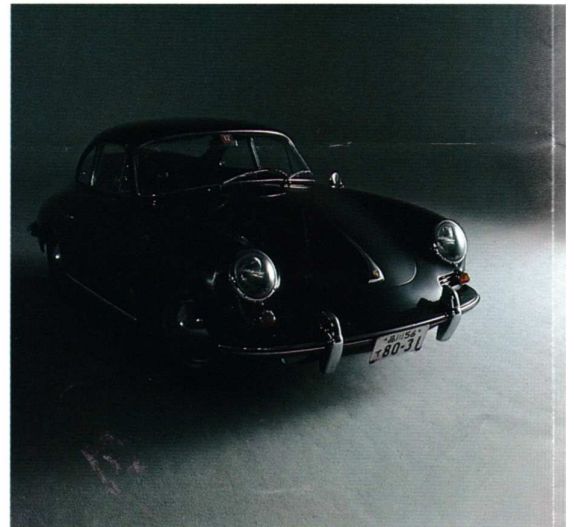
Metered area



Shadow area

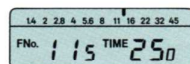
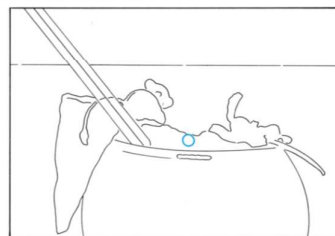


Highlight area

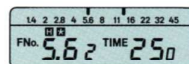


## Three exposure-calculation choices

The Spotmeter F can automatically calculate the exposure for highlight or shadow areas. Or by using the memory function, you can take the average of two readings for a midtone exposure. In the photo at right, a highlight area was measured, then the highlight key was pressed. The meter automatically increased the exposure by 2.3 stops so that the area would be reproduced as a bright highlight.



Normal reading



Highlight-biased exposure







### Easy operation

#### 1 Power switch

Use to switch off the meter to prevent battery drain from accidental readings.

#### 2 Shadow key

To bias exposure for a dark shadow area, measure the dark area, then press shadow key.

#### 3 Averaging key

To calculate the average exposure of a scene, measure and memorize readings for both bright and dark areas, then press averaging key.

#### 4 Highlight key

To bias exposure for bright, highlight areas, measure a bright area, then press highlight key.

#### 5 Measuring button

In ambient mode, you can take continuous readings by holding the button in. In flash mode, the flash is fired and a single reading is taken when the button is pressed.

#### 6 Memory clear key

Press to clear memorized exposure readings.

#### 7 FNo./EV key

Press to select either the f-number (FNo.) or exposure value (EV) digital display.

#### 8 ISO/TIME key

Press to display film-speed settings from ISO 12 to 6400 or shutter-speed settings from 1/8000 sec. to 30 min. (and a 1/50 cine setting) in ambient mode and 1/1000 sec. to 1 sec. in flash mode.



#### 9 Recall key

Press to recall an exposure reading to digital display.

#### 10 Metering mode switch

Set to "AMBI" mode for ambient light readings. Set to "FLASH" mode for flash readings. Memorized/ displayed readings are cleared when switch is moved to either setting.

#### 11 12 Increase and decrease keys

These keys are used to set the shutter speed in full stops or the ISO film speed in one-third stop increments. Settings change continuously when a key is held down.

#### 13 Memory key

Press to enter exposure reading in memory. Up to two readings can be stored, and will remain displayed on the analog scale.

#### 14 Display illumination button

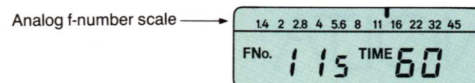
Press to illuminate viewfinder display for viewing the digital readout in low light.

#### 15 Sync terminal

For flash readings, insert flash's sync cord into sync terminal. Terminal is threaded to secure the optional Sync Cord II.

### Digital and analog displays

Exposure readings are shown digitally in the meter's external and viewfinder displays. The external liquid-crystal display (LCD) also has an analog f-number scale. Pointers on this analog scale can indicate up to four exposure readings. This full range of exposure information makes it easy to determine the optimum exposure in nearly any situation.



### Designed for optimum versatility

#### Bright viewfinder image

The measuring spot in the viewfinder defines the meter's 1° angle of acceptance and indicates the area being metered. F-numbers, exposure values, and difference in brightness are all displayed digitally in the viewfinder.

#### Optional close-up lens

A close-up lens is available separately for the Spotmeter F. With the lens attached, you can take readings of subjects from 0.6 to 1.4 meters (2 to 5 ft.) away.

#### Data storage function

Even when the Spotmeter F is switched off, ISO film-speed and shutter-speed settings are stored by the meter. When the meter is switched on, the most recent digital exposure readout and any memorized data are displayed.

#### Power source

The Spotmeter F is powered by a single AA-size penlight battery. A 1.5-volt alkaline-manganese, carbon-zinc, or 1.2-volt nickel-cadmium battery can be used.

Low power is indicated automatically. All indications on the LCD panel will start blinking when the battery needs to be changed.

## TECHNICAL DETAILS

<b>Type</b>	Spot-reading reflex-viewing exposure meter for ambient or flash light		Note: F-number, EV number, and brightness difference shown in both external and finder displays
<b>Measuring method</b>	Reflected light by silicon photo cell detector masked for 1° angle of acceptance	<b>Analog readouts/displays</b>	F-numbers: f/1.4 to 45 in 1/2-stop increments (up to 4 indications possible when using memory/calculation functions)
<b>Optical system</b>	Through-the-lens reflex type utilizing semi-silvered mirror and pentaprism; Focus fixed for readings 1.3m to infinity; with optional close-up lens, 0.6 to 1.4m Viewfield: 12 × 17° with 1° area marked by circle in finder Magnification: 1.4X Eyepiece adjustment: -2.5 to +1.2 diopters	<b>Other indications/displays</b>	Analog and digital display readouts change automatically to reflect ISO/time input changes; "S", "A", or "H" on external display indicates exposure is calculated for shadows, average (midtone), or highlight areas, respectively; "star" mark appears when reading on digital display is fixed for taking brightness-difference measurements; flash mark appears when using flash mode
<b>Measuring range at ISO 100</b>	Ambient: EV 1.0 to 22.5 Flash: f/2 to 90 + 0.9 stop	<b>Brightness-difference indication</b>	When "star" mark appears in external/finder digital displays, difference in brightness between calculated measurement and subsequent readings is shown in 0.1-stop increments; calculated reading displayed again when measuring button is released
<b>Accuracy</b>	+/- 0.1 stop repeatability	<b>Memory</b>	2-measurement capacity, both indicated by pointers on analog display; digital recall possible
<b>Electronic components</b>	Hermetically sealed microprocessor chip and two custom-designed liquid-crystal displays: display on side of unit has separate 3-digit readout and 4-digit input sections (each with unit identifications) and analog array; LCD in finder shows EV, f-number, or brightness difference	<b>Exposure-zone calculation</b>	Analog/digital readout and recall of highlight, shadow, or averaged (midtone) exposure automatically calculated for optimum correspondence of brightness range of subject with film latitude
<b>Controls</b>	Measuring button (operates only when "TIME" is displayed); key to alternate film-speed/shutter-speed display; increase and decrease keys for changing film speed and shutter speed; f-number/EV display selection key; memory, recall, and memory-clear keys; highlight, shadow, and averaging calculation keys; ambient/flash mode switch; power switch; viewfinder-display illumination button	<b>Power source</b>	One 1.5-volt AA-size alkaline-manganese (Eveready E91 or equivalent), carbon-zinc, or 1.2-volt nickel-cadmium (Ni-Cd) cell
<b>Digital readouts/displays</b>	F-numbers: f/0.7 to 90 + 0.9 stop in 0.1-stop increments EV numbers: -4.3 to +28.5 in 0.1-stop increments Brightness difference: -9.9 to +9.9 stops in 0.1 stop increments ISO range: 12 to 6400 in 1/3-stop increments Ambient exposure times: 30 min. to 1/8000 sec. in 1-stop increments (cine: 1/50 sec.) Flash exposure times: 1 to 1/1000 sec. in 1-stop increments	<b>Other</b>	Threaded PC-type terminal for connecting flash sync cord, tripod socket, and strap eyelet, ISO table, "cine" table
		<b>Accessories</b>	Neck strap, lens cap and belt case supplied with meter; close-up lens and Sync Cord II available separately
		<b>Size</b>	48 × 150 × 89mm (1-7/8 × 5-7/8 × 3-9/16 in.)
		<b>Weight</b>	240g (8-1/2 oz.) without battery

Specifications subject to change without notice



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