

PENTAX

Digital Spotmeter



1° Precision exposure meter with rugged solid state digital readout.

A major breakthrough in exposure metering technology, the Pentax Digital Spotmeter selectively pinpoints with extreme accuracy the correct exposures in the deepest shadows and the brightest highlights. It can also measure contrast ratios and serve as a brightness meter in T.V. or motion picture studios. The Pentax Digital Spotmeter has a 1° pinpoint metering angle which is comparable to the field of view of a 2,000mm lens and has a measuring range of EV 1 - 20. It can be used to measure exposures by four different methods: general measuring, averaging, highlight reading and shadow reading. It is therefore ideally suited to the most exacting needs of any photographer, professional or amateur.

Weighing only 3-2/3 oz., its bright fixed focus, through-the-lens viewfinder presents a slightly enlarged (1.15x life size) image. The silver-coated pentaprism, seven-layer multicoating 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.

Measurements are given in 1/3 EV increments indicated by a single or double dot next to the digital number readout. The EV numbers can be converted quickly into shutter speed/aperture combinations on the easy-to-read scale around the lens barrel. The LED numbers are highly visible, even in bright light. A special Stabilizer Circuit prevents flickering or simultaneous flashing of adjacent LEDs, adding still further to the meter's accuracy.

The Pentax Digital Spotmeter's Silicon photo diode light sensor responds 1,000 times faster than CDS cells, and has no bright light memory. This allows the Spotmeter to be swept quickly back and forth between bright and shadow areas for instantaneous and accurate measurement of both.

All components of the Spotmeter's exposure measuring system are without moving parts. Therefore, the unit is extremely rugged and not prone to damage or jamming.

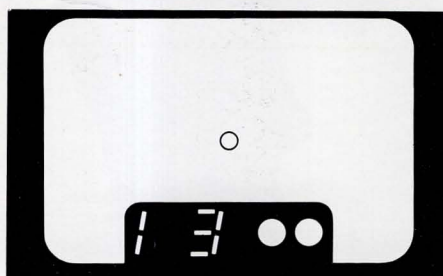
The Pentax Digital Spotmeter also has a IRE (Institute of Radio Engineers) scale for determining which highlights at any given exposure would be washed out and which shadows would be underexposed. The meter also has a Cine Index for motion picture use.

The Pentax Digital Spotmeter comes in black finish and is powered by one 6V silver oxide battery, has a tripod socket and is supplied with case, wrist strap and lens cap.

Cat. No.
36141

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Digital Spotmeter viewfinder shows 1° area of meter coverage and LED panel.

Specifications

Measuring Range:

(100 ASA) EV 1 - 20 (EV 20 displayed as "O").
ASA, 6-6400; Shutter Speed, 1/4000 sec. - 4 min.; Aperture, f/1 - 128; EV Number, 1 - 19-2/3; IRE, 1 - 10.

Measuring Angle:

1°.

Measuring Distances:

From about 1.5m to infinity — fixed focal length. (Focusing down to about 1m possible by screwing the eyepiece out as far as it will go).

Exposure Read-Out:

LED digital display of EV Numbers (100 ASA), and up to two dots (each of which equals + 1/3 EV).

Photosensitive Cell:

Silicon Photo Diode.

Power Source:

One 6V silver oxide battery (No. 544 or equivalent) or No. 537 alkaline battery.

Battery Check:

Failure of LED digital display to illuminate indicates battery needs replacing.

Viewfinder:

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 LED Panel appears at the bottom. Viewfinder coverage similar in shape to that of a 35mm SLR, and with a diagonal field of view of 26°, horizontal field of 22°, and vertical field of 14°, adjustable eyepiece of -2 to +1 diopter.

Filter Size:

40.5mm.

Dimensions:

1.7"D x 5.7"H x 3.4"W (44mm x 144mm x 83mm).

Weight:

9.3 oz. (258g) (with battery).

Additional:

Equipped with Tripod Socket, supplied with case, Wrist Strap, battery, and Lens Cap.

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