

Luminance Meter

LS-150/LS-160

4

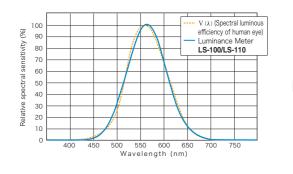
New models with higher accuracy and comfort of use!

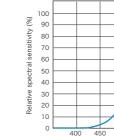


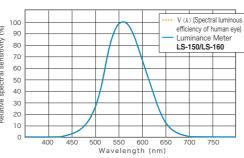
High accuracy

Conforms to DIN 5032-7 Class B

The LS-150 and LS-160 are highly accurate luminance meters that use a newly designed sensor with a spectral response that more closely matches the $V(\lambda)$ spectral luminous efficiency function of the human eye to provide measurement results that correlate well with visual evaluation.









Incredibly easy to use

Bright viewfinder makes it easy to target desired areas of measurement subjects.

LS-150





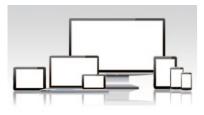
LS-160

Automatic mode automatically sets the measurement time according to the brightness of the target.

Backlit display is easy to read even in dark places, and is automatically switched off during measurements.



Easy-to-hold grip. Smooth focusing during measurement.























Numerous optional accessories

Close-up lenses Lineup of 4 lenses (Nos. 153, 135, 122, and 110) enable measurements of tiny areas.



Measuring distance and measuring area (Units: mm)

		ing area	measur		Minimum measuring	Maximum measuring
(Measuring angle)	1/3°	1°	1/3°	1°	distance	distance
None	4.5	14.4	œ	00	1,012	œ
No.153	2.5	8	5.9	18.8	627	1,219
No.135	1.6	5.2	2.7	8.6	455	625
No.122	1.0	3.2	1.3	4.3	331	378
No.110	0.4	1.3	0.5	1.5	213	215

*Measuring distance is the distance from the measuring distance reference plane.

C-mount CCD camera adapter enables the viewfinder to be monitored from a distance.



This adapter allows an industrial C-mount CCD camera to be attached to the viewfinder so that measurements including the view through the viewfinder can be monitored from a distance or recorded. * CCD camera not included.

Illuminance adapter enables illuminance to also be measured.



Measurable illuminance range:

• LS-150:

Corresponds to 0.015 - 999,900 lx

• LS-160:

Corresponds to 0.15 - 9,999,000 lx

* This illuminance measuring method does not conform to DIN or JIS standards.

Measurement subjects

Easy-to-understa utility software

The included software allows the meters to be controlled from a PC. Repeated interval measurements can be conducted for a specified number of times at specified intervals, measurement data can be displayed on graphs or lists, and data can be sent to spreadsheet applications.

Supported OS: Windows® 7 Professional 32 bit, 64 bit Windows® 8.1 Pro 32 bit, 64 bit Windows® 10 Pro 32 bit, 64 bit

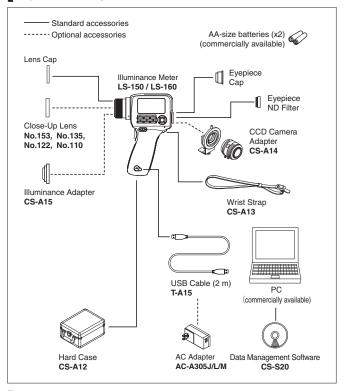
eatures	
Meter control	1-shot measurement Continuous measurement Interval measurement: 2 to 5,000 times at 3 to 3,600 sec. intervals (in 1-sec. increments) Instrument trigger measurement Setting of meter settings Export of data stored in meter to PC User calibration
Target data	Setting of target data Download of target data from PC to meter
Data list	List displays and delete/copy/paste of measurement and target data
External I/O	Text input; Saving in CSV format; copying of list to/from clipboard



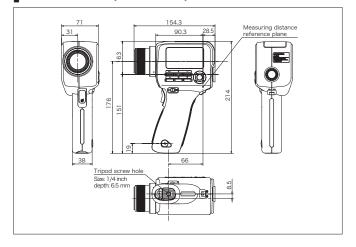
Main Specifications

Model	LS-150	LS-160			
Measuring angle	1°	1 / 3°			
Optical system	SLR viewing system, f = 85 mm F2.8				
Angle of view	9° (with diopter adjustment)				
Relative spectral responsivity	Closely matches spectral luminous efficiency (V (λ))				
Applicable standard	DIN 5032-7 Class B compliant	(N/A)			
Minimum measuring area (diameter) Minimum measuring	14.4 mm (1.3 mm when close- up lens is used) 1.012 mm	4.5 mm (0.4 mm when close- up lens is used)			
distance (From the measuring distance reference plane)	(213 mm when close-up lens is used)				
Measurement mode	Instantaneous value, maximum/minimum value, luminance difference (Δ)/luminance ratio (%)				
Measurement time	AUTO: 0.7 to 4.3 seconds Manual: 0.7 to 7.1 seconds				
Luminance unit	cd/m² or fL				
Luminance range	0.001 to 999,900 cd/m ²	0.01 to 9,999,000 cd/m ²			
Accuracy*1	±2% ± 2 digits (1 cd/m² or less) ±2% ± 1 digit (1 cd/m² or more)	±2% ± 2 digits (10 cd/m² or less) ±2% ± 1 digit (10 cd/m² or more)			
Repeatability*1	0.2% + 1 digit	0.2% + 1 digit			
Calibration standard	Konica Minolta standard/user-	-specified standard switchable			
User calibration channels	10 channels				
Data memory	1,000 data				
External display (Number of significant digits)	4 digits (Max.)				
Internal display (Number of significant digits)	4 digits (Max.)				
Interface	USB2.0				
Power	AA-size batteries (x2), USB bus power, or optional AC adapter				
Current consumption	When viewfinder display is lit: 70 mA average				
Operation temperature/ humidity range	0 to 40°C, relative humidity of 85% or less (at 35°C)				
Storage temperature/ humidity range	0 to 45°C, relative humidity of 85% or less (at 35°C)				
Size	71×214×154 mm				
Weight	850 g (without batteries)				
Standard accessories	Lens Cap Eyepiece ND Filter Eyepiece Cap AA-size batteries (x2) Hard Case CS-A12 Wrist Strap CS-A13 USB Cable T-A15 Data Management Software CS-S20				
Optional accessories	Close-Up Lens No. 153/135/122/110 CCD Camera Adapter CS-A14 Illuminance Adapter CS-A15 AC Adapter AC-A305J/L/M				

System Diagram



Dimensions (Units:mm)



- * 1 Standard Illuminant A; Standard measurement distance; Measurement time setting: Auto
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SAFETY PRECAUTIONS

For correct use and for your safety, be sure to read the instruction manual before using the instrument. Be sure to use the specified power supply voltage Improper connection may cause a fire or electric shock





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