

Luminance Meter



LS-150/LS-160

New models with higher accuracy and comfort of use !





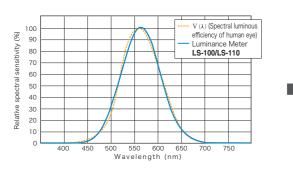
Giving Shape to Ideas

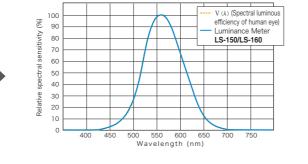
High accuracy

Conforms to DIN 5032-7 Class B

(LS-150)

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(λ) spectral luminous efficiency function of the human eye to provide measurement results that correlate well with visual evaluation.







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

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



Easy-to-hold grip.









Measurement subjects

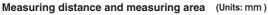






Numerous optional accessories

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



	Minimum Max measuring area measu		imum ing area	Minimum measuring	Maximum measuring	
(Measuring angle)	1/3°	1 °	1/3°	1°	distance	distance
None	4.5	14.4	œ	8	1,012	8
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.

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 Features 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 Setting of target data Target data Download of target data from PC to meter List displays and delete/copy/paste Data list

External I/O

of measurement and target data

Text input; Saving in CSV format;

copying of list to/from clipboard





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



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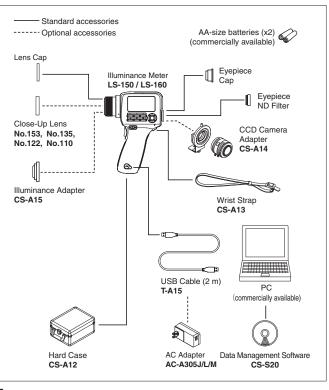
Smooth focusing during measurement.

					10101	
	Measurment					
	Data Name	Measurement Date	Lv Peak	Valley Integration	Time Calib. C	8
-	Sampiel111	2015/01/18 09:1217	1768 044	08	0	^
	SampiaDL14	2015/01/18 0912/46	1745 OFF	05	0	
	Sampiel115	2025/01/18 09:12:55	1763 Off	06	0	
	Sergie0116	2012/01/14 09:13:01	1763 OF7	05	0	h
	Sampiel117	2015/01/18 09:13:07	1765 OFF	05	0	
Serple	SampielL18	2015/01/18 091405	1788 CM	08	0	
	Sampiell19	2015/01/18 091443	17.62 OFF	05	0	
-	Sampia0120	2025/01/18 0918-68	1762 OFF	05	0	
	Sangiel121	2015/01/18 09:1452	17.61 OFF	05	0	
	 Sampiel2122 	2015/01/18 09:5457	1761 017	65	•	
15	-			Detailered	Sector	٦
ten		Interval (sec.)	/	10	Measure	
					_	

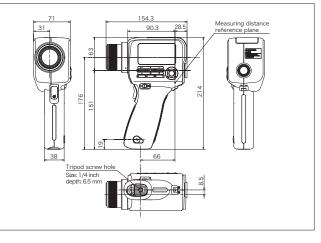
Main Specifications

Model	LS-150	LS-160
Measuring angle	1°	1/3°
Optical system	SLR viewing system, f = 85 m	m F2.8
Angle of view	9° (with diopter adjustment)	
Relative spectral responsivity	Closely matches spectral lum	inous efficiency (V (λ))
Applicable standard	DIN 5032-7 Class B compliant	(N/A)
Minimum measuring area (diameter)	14.4 mm (1.3 mm when close- up lens is used)	4.5 mm (0.4 mm when close- up lens is used)
Minimum measuring distance (From the measuring distance reference plane)	1,012 mm (213 mm when close-up lens i	is used)
Measurement mode	Instantaneous value, maximu difference (Δ)/luminance ratio	m/minimum value, luminance (%)
Measurement time	AUTO: 0.7 to 4.3 seconds Manual: 0.7 to 7.1 seconds	
Luminance unit	cd/m ² or fL	
Luminance range	0.001 to 999,900 cd/m ²	0.01 to 9,999,000 cd/m ²
Accuracy*1	$\pm 2\% \pm 2$ digits (1 cd/m ² or less) $\pm 2\% \pm 1$ digit (1 cd/m ² or more)	$\pm 2\% \pm 2 \text{ digits}$ (10 cd/m ² or less) $\pm 2\% \pm 1 \text{ digit}$ (10 cd/m ² 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), USE adapter	3 bus power, or optional AC
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 C	CS-S20
Optional accessories	Close-Up Lens No. 153/135/1 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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	ISO 9001	
tificate	No : LRQ 09600	194/A



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