



KONICA MINOLTA

Conforms to JIS A Class and DIN Class C

NEW

CRI Illuminance Meter

CL-70F 1

Easy to use !

Can take spectral measurements of flash light

Good tool for lighting planners

Rotating receptor head



Dark calibration performed without needing cap



Measurement and evaluation of the illuminance, color temperature, and color-rendering index of special illumination sources used for restaurants, museums, studios, and stages, etc.



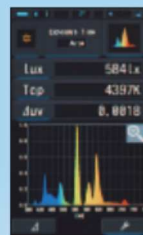
Easy-to-read display *Display mode examples



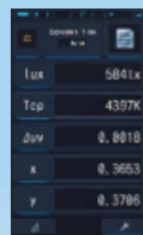
Color rendering index



CIE 1931 (CIE 1964)

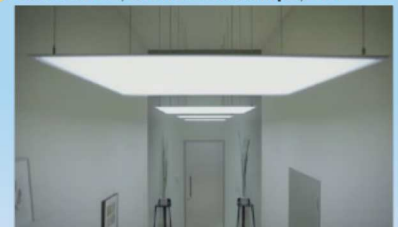


Spectrum

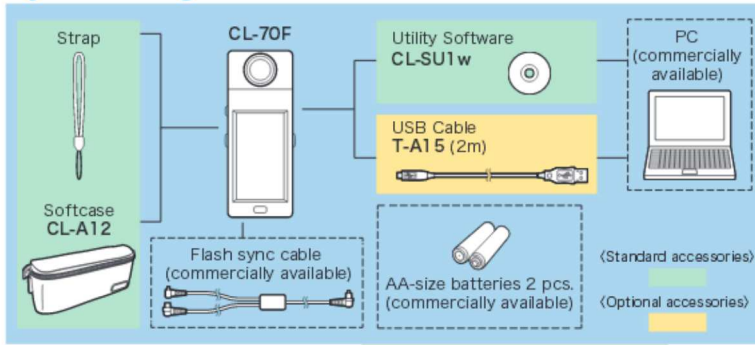


Text

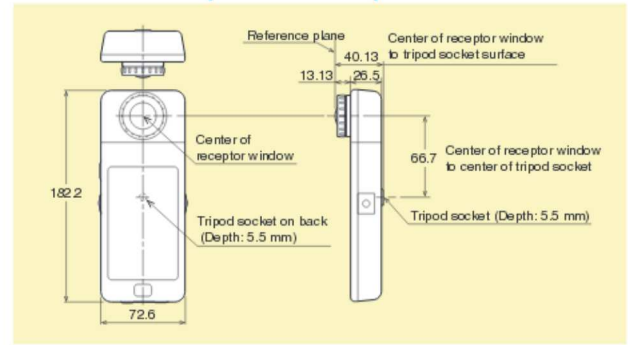
Measurement and evaluation of the illuminance, color-temperature, and color-rendering index of indoor illumination sources such as LEDs, fluorescent lamps, etc.



System Diagram



Dimensions (Units: mm)



Main Specifications of CL-70F

Model	CRI Illuminance Meter CL-70F
Illuminance meter class	Conforms to requirements for Class A of JIS C1609-1 : 2006 "Illuminance meters Part 1: general measuring instruments; Conforms to DIN 5032 Part 7 Class C
Sensor	CMOS linear image sensor
Spectral wavelength range	380 nm ~ 780 nm
Output wavelength pitch	1 nm
Measuring range	Constant light: 20 to 200,000 lx; 5 to 100,000 K (Chromaticity display requires 5 lx or more) Flash light: 20 to 20,500 lx·s; 2,500 to 100,000 K
Accuracy (Standard Illuminant A) (*1, 2)	E _v : ±5%±1 digit of displayed value xy: ±0.003 (at 800 lx)
Repeatability (Standard Illuminant A) (*1)	E _v : 30 to 200,000 lx: 1%+1digit; 1 to 30 lx: 5%+1digit (*3) xy: 500 to 200,000 lx: 0.001 (*4) xy: 100 to 500 lx: 0.002 (*4) xy: 30 to 100 lx: 0.004 (*4) xy: 5 to 30 lx: 0.008 (*4)
Visible-region relative spectral response characteristics (f1')	Within 9%
Cosine correction characteristics (f2)	Within 6%
Temperature drift (f _t)	E _v : ±5% xy: ±0.006
Humidity drift (f _h)	E _v : ±3% xy: ±0.006
Power	2 AA-size batteries (Alkaline batteries or manganese dry cells); USB bus power
Response time	Constant light (Maximum): 15 sec Constant light (Minimum): 0.5 sec Flash light: 1 ~ 1/500 sec (in 1-step intervals) (*5)
Color indication modes	Correlated color temperature T _{cp} , Difference from blackbody Δuv, XYZ, xy, u'v', Dominant wavelength λ _d , Excitation purity P _e , Spectral irradiance E _v , CRI (Ra, Ri), Peak wavelength λ _p , exposure value
Other functions	Data memory: 999 data; Preset function; Auto power off function
Display languages	English, Japanese, Chinese (Simplified)
Interface	USB 2.0 Mini B
Operation temperature/humidity range	-10 to 40°C, relative humidity of 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	-10 to 45°C, relative humidity of 85% or less (at 35°C) with no condensation
Size	73 (W) × 183 (H) × 27 (D) mm (Not including projecting buttons) D (max): 40 mm
Weight (without battery)	230 g

(*1) Measurement mode: Constant light (range L). Exposure time: AUTO (*4) 10 times measurement (2σ)
(*2) Linear for E_v (*5) Shutter speed
(*3) 10 times measurement (2σ) / Ave

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- Screens shown are for illustration purpose only.
- Some lamp control methods may make accurate measurements difficult. For details, please contact your nearest Konica Minolta sales office or dealers.



SAFETY PRECAUTIONS

For correct use and for your safety, be sure to read the instruction manual before using the instrument.

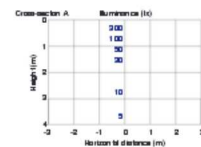
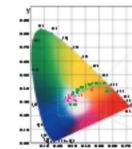
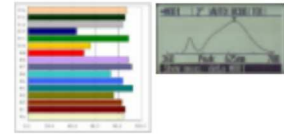
- Be sure to use the specified batteries. Using improper batteries may cause a fire or electric shock.

Utility Software (Standard accessory)

Software	OS	
Windows	Windows® 7 SP1 Windows® 8 Windows® 8.1	Compatible with 32-bit and 64-bit versions of Excel®

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Konica Minolta's Illuminance Measurement Trio <All conforms to JIS AA Class>



* Both CL-200A and CL-500A also can measure PWM-controlled light.

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