



KONICA MINOLTA

Conforms to JIS A Class and DIN Class C

NEW

CRI Illuminance Meter

CL-70F 1

Easy to use !

Flash lights measuring functions

Awaited friends for lighting planners



Enrolled Receptors



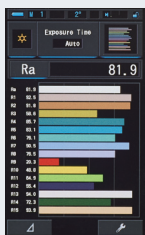
Dark calibration function without any cap



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



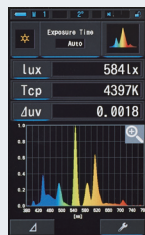
Visible display *Display mode example



Color rendering index



CIE1931 (CIE1964)

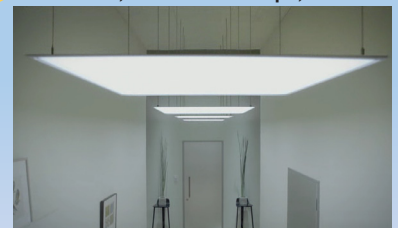


Spectrum

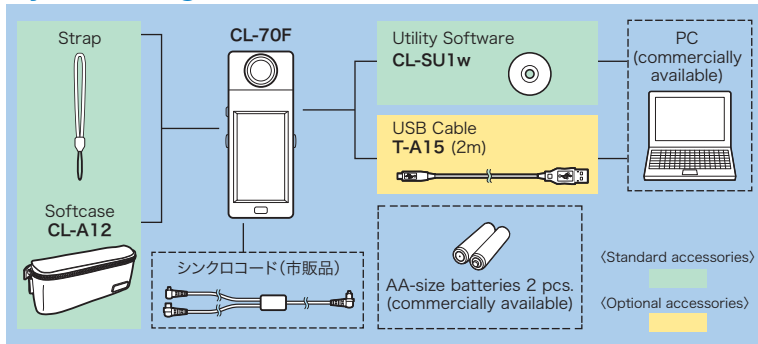


Text

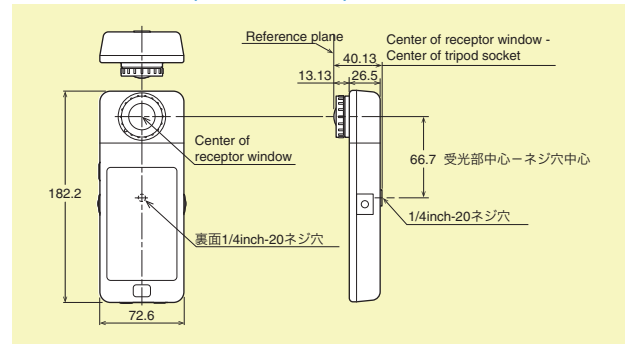
Measurement and evaluation of the illuminance, color-temperature, and color-rendering index of indoor illumination sources such as LEDs, fluorescent lamps, etc.



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 C 1609-1:2006 "Illuminance meters Part 1: General measuring instruments" Conforms to DIN 5032 Part 7 Class C	
Sensor	CMOS Linear image sensor	
Wavelength range	380 to 780 nm	
Output wavelength pitch	1 nm	
Measuring range	Ambient light : 1~200,000 lx 1,563~100,000 K (chromaticity display requires 5 lx or more) Flush light : 20~20,500 lx · s 2,500~100,000 K	
Accuracy (Standard illuminant A)*1*2	E _v (Illuminance) : ±5%+1digit of displayed value (1~3,000 lx) xy : ±0.003 (800 lx)	
Repeatability (Standard illuminant A)	E _v : 1%+1digit (30~200,000 lx), 5%+1digit (1~30 lx)*3 xy : 0.0012 (500 ~200,000 lx) xy : 0.0025 (100 ~500 lx) *4 xy : 0.005 (30 ~100 lx) xy : 0.011 (5 ~30 lx)	
Visible-region relative spectral responsivity characteristics (f ₁)	Within 9%	
Cosine correction characteristics (f ₂)	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 battery or manganese dry cell), USB Power bus	
Response time	Ambient light (longest) : 15 sec Ambient light (shortest) : 0.5 sec Flush light : 1 ~ 1/500 sec (1 step switchable) *5	
Display mode	相関色温度, T _{cp} (K), 偏差 Δuv, CIE1931 (CIE1964) モード, CIE1931 (CIE1964) 比較モード, 主波長 d (nm), 刺激純度 Pe(%), Pe10(%), 照度 Lux(lx) · fc(fc)	
Other functions	Data memory 999 data, Preset function, Auto power off function	
Display languages	English, Simplified Chinese, or Japanese	
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 (W x H x D)	73x 183 x 27 mm (ボタンなどの突起物含まず) 最大厚さ40 mm	
Weight	230 g (not including batteries)	

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

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

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SAFETY PRECAUTIONS

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

- Always connect the instrument to the specified power supply voltage. Improper connection may cause a fire or electric shock.



Utility Software (Standard accessory)

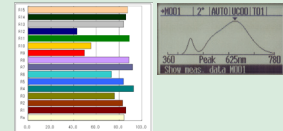
Software	OS	
Windows	Windows® 7 SP1 Windows® 8 Windows® 8.1	Compatible with 32 bit and 64 bit version of Excel

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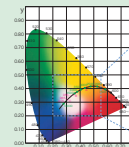
Konica Minolta's Illuminance Measurement Trio

<All conforms to JIS AA Class>

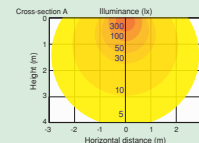
高精度が求められる工業用途に!
CL-500A ひかり三兄弟の三男



A de facto industry standard for color-temperature measurement!
CL-200A as a second brother



Capable of accurately measuring next-generation lamps including PWM-controlled lighting.
T-10A as a eldest brother



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



Certificate No : LRQ 0960094/A
Registration Date : March 3, 1995



Certificate No : JQA-E-80027
Registration Date : March 12, 1997