



KONICA MINOLTA

Conforms to JIS A Class and DIN Class C

NEW

CRI Illuminance Meter

CL-70F

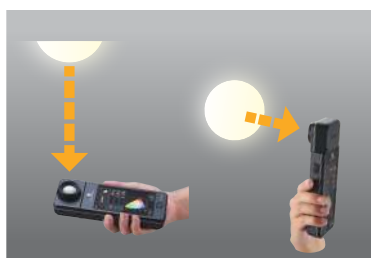
1

Easy to use !

Flash lights measuring functions

Awaited friends for lighting planners

Enrolled Receptors



Dark calibration function without any cap



Visible display *Display mode example



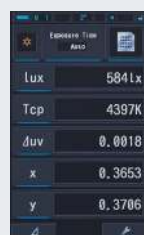
Color rendering index



CIE1931 (CIE1964)



Spectrum



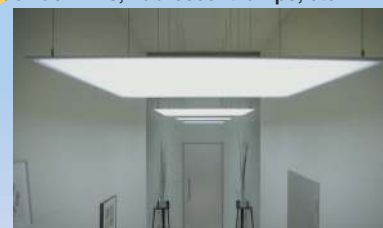
Text



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

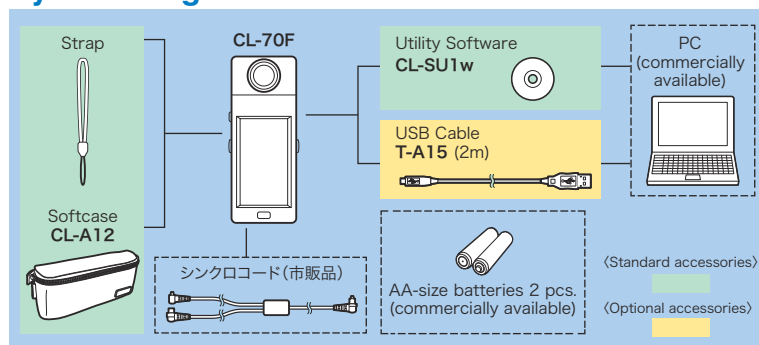


Measurement and evaluation of the illuminance, color-temperature, and color-rendering index of indoor illumination sources such as LEDs, fluorescent lamps, etc.



Giving Shape to Ideas

System Diagram



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) : $\pm 5\% + 1 \text{ digit}$ of displayed value (1~3,000 lx) xy : ± 0.003 (800 lx)
Repeatability (Standard illuminant A)	E_v : $1\% + 1 \text{ digit}$ (30~200,000 lx), $5\% + 1 \text{ digit}$ (1~30 lx)*3 xy : 0.0012 (500 ~200,000 lx) xy : 0.0025 (100 ~500 lx) xy : 0.005 (30 ~100 lx) xy : 0.011 (5 ~30 lx) *4
Visible-region relative spectral responsivity characteristics (f^*_1)	Within 9%
Cosine correction characteristics (f_2)	Within 6%
Temperature drift (f_T)	E_v : $\pm 5\%$ xy : ± 0.006
Humidity drift (f_H)	E_v : $\pm 3\%$ 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) · $d10$ (nm), 刺激純度 $Pe(\%)$, $Pe10(\%)$, 照度 $Lux(x)$ · $fc(fc)$
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

*2 Lensear for E_v

*3 10 times measurement (2 σ) / Ave

*4 10 times measurement (2 σ)

*5 Shutter speed

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- Some lampcontrol methods may make accurate measurements difficult. For details, please contact your nearest Konica Minolta sales office or dealers.

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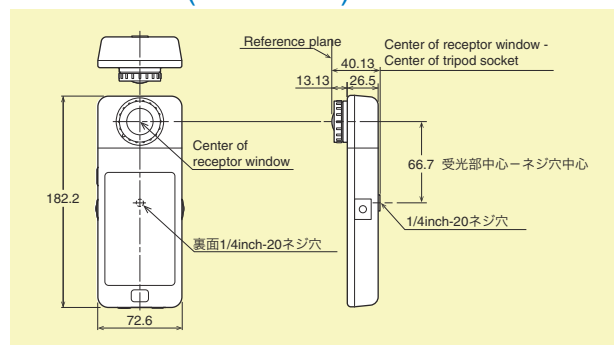
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Dimensions (Units: mm)



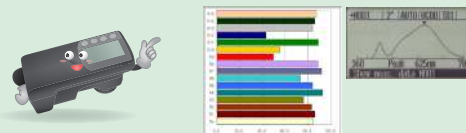
Utility Software (Standard accessory)

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

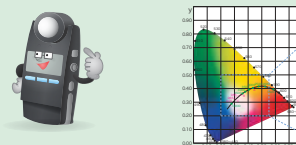
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Konica Minolta's Illuminance Measurement Trio <All conforms to JIS AA Class>

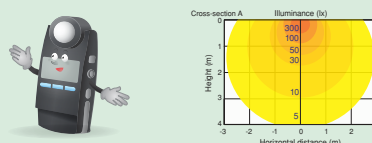
高精度が求められる工業用途に！
CL-500A ひかり三兄弟の三男



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.



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.



Certificate No : LRQ 096009/A4
Registration Date : March 3, 1995



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

<http://konicaminolta.com/instruments/network>

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