Easy to use!

Can take spectral measurements of flash light

Good tool for lighting planners

Rotating receptor head

Dark calibration performed without needing cap

Easy-to-read display

Display mode examples

- 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.

Measurement and evaluation of the illuminance, color-temperature, and color-rendering index of special illumination sources used for restaurants, museums, studios, and stages, etc.
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
*1Illuminance meters Part1: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: 1 to 200,000 lx; 1,563 to 100,000 K
Flash light: 20 to 20,500 lx; ± 2,500 to 100,000 K

**Accuracy (Standard Illuminant A) (1,2)**
E<sub>i</sub> ± 5% ± 1 digit of displayed value
x<sub>y</sub>: ± 0.003 (at 800 lx)

**Repeatability (Standard Illuminant A) (1)**
E<sub>i</sub>: 30 to 200,000 lx: 1% ± 1 digit; 1 to 30 lx: 5% ± 1 digit (3)
x<sub>y</sub>: 500 to 200,000 lx: 0.01 (4)
x<sub>y</sub>: 100 to 500 lx: 0.002 (4)
x<sub>y</sub>: 30 to 100 lx: 0.004 (4)
x<sub>y</sub>: 5 to 30 lx: 0.008 (4)

**Visible-region relative spectral response characteristics (1,2)**
Within 9%

**Cosine correction characteristics (2)**
Within 6%

**Temperature drift (f<sub>T</sub>)**
E<sub>i</sub>: ± 5% ± 0.006

**Humidity drift (f<sub>H</sub>)**
E<sub>i</sub>: ± 3% ± 0.006

**Power**
2 AA-size batteries (Alkaline batteries or manganese dry cells); USB 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<sub>μ</sub>, Difference from blackbody Δuv, XYZ, xy, u′v′, Dominant wavelength λ<sub>d</sub>, Excitation purity Pe, Spectral irradiance, E<sub>i</sub>, CRI (Ra, Ri), Peak wavelength λ<sub>p</sub>, Exposure value λ<sub>p</sub>

**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)

**Weight (without battery)**
230 g

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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 batteries. Using improper batteries may cause a fire or electric shock.

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**Konica Minolta’s Illuminance Measurement Trio**

<All conforms to JIS AA Class>

**Illuminance Spectrophotometer CL-500A**
A de facto industry standard for color-temperature measurement!

**Illuminance Meter T-10A**
Capable of accurately measuring next-generation lamps including PWM-controlled lighting.

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**Konica Minolta Sensing America, Inc.**

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New Jersey, U.S.A.

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