



ENGLISH

Datasheet

Stock No. 146-4652

RS-136

CHROMA METER



FEATURES

- Triple Display, 4-digit LCD reading
- LED Colour Bin select function (x,y) or (Tcp, Δuv).
(Use CD software)
- User calibration function
- User reference value setting function
- Illuminance maximum/minimum measurement function
- Data Hold function
- Data memory and read function
- Data logger function
- Auto power off function
- USB Interface

27/12/2017

APPLICATIONS

- Measure tristimulus values, chromaticity, colour difference, correlated colour temperature, and illuminance of light sources
- R&D and colour inspection of light in a variety of industries such as lamp manufacturers, building and interior design
- Set-up projectors for presentation purposes
- Adjust colour of CRTs, flat panel, and other display devices
- Evaluate and control colour of light boxes and light booths

SPECIFICATIONS

Display	Triple display 4 digit LCD read out
Measuring function	Tristimulus values: XYZ Chromaticity: (Ev, x, y); (Ev, u', v'); (Ev, λd, Pe); (Ev, λd, Pc); (Ev, MAX, MIN). Correlated color temperature: (Ev, Tcp, Δuv); (ΔEv, ΔTcp, ΔuvΔ) Color difference: (ΔX, ΔY, ΔZ); (ΔEv, Δx, Δy); (ΔEv, Δu', Δv'); (ΔEv, Δu'v'); (ΔEv, Δλd, ΔPe); (ΔEv, Δλd, ΔPc)
Measuring range	0.1 to 99990 lx, 0.01 to 9999 fc (Chromaticity: 5 lx, 0.5 fcd or above)
Accuracy	Ev (Linearity): 3000K: ±3%rdg±2dgts >3000~4000K: ±4%rdg±2dgts >4000~6000K: ±5%rdg±2dgts >6000~7000K: ±6%rdg±2dgts xy: ±0.25 (800 lx, Standard Illuminant A measured)
Repeatability	Ev: ±0.5%rdg±1dgt xy: ±0.005 (800 lx, Standard Illuminant A measured)
Temperature drift	Ev: ±5%rdg±2dgts, xy: ±0.008
Humidity drift	Ev: ±3%rdg±2dgts, xy: ±0.005
CIE photopic f '1	8%
Cosine response f₂	3%
Measuring Rate	1 sec
Photosensor	Silicon photocell
Data Memory Capacity	80 sets. (Direct reading from LCD display)
Data Logger Capacity	microSD CARD 4GB
Operating / Storage Conditions	0 to 50 <80% RH / -10 to 60 <70%RH
Power Source	6 pcs AAA size Battery
Battery Life (typical)	50 hours
Photosensor Lead Length	150 cm (approx.)
Photosensor Dimensions	92(L) × 60(W) × 29(H)mm
Dimension	150(L) × 72(W) × 35(H)mm
Weight	Meter: 235g, Photosensor: 210g
Accessories	Carrying case, Instruction manual, Battery, CD software, USB cable.