

Luminometer

NL-1



This instrument is used for luminance measurements of LCD (liquid crystal display), etc. In addition, you can also measure chromaticity and color temperature of various types of light source and lighting fixtures.

Features

1. Thanks to its calculating function of average, maximum, minimum, and deviation of memorized values, this model is very effective for luminance and color shading inspections of various displays.
2. Product quality is maintained uniformized from your initial development to manufacture by making use of 3 types of light source compensation coefficients (for standard A light source, 3 wavelength band emitting type fluorescent lamp and CRT) saved in a built-in memory.
3. Deviation against your target color is displayed in 4 different types of color system.
4. This model is equipped with the data compensation function that is useful for data synchronization with your company's standard color values and can dissolve your problem due to instrumental error.
5. Color management software is available in option, which will be very effective for your color data analysis.

Specifications

Dimensions	L 260mm x D 67mm x H 40mm	Measurement accuracy	<ul style="list-style-type: none"> • Luminance : $\pm 4\%$ reading $\pm 1\%$ digit (at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and 70%RH or less, by standard A light source, at 50mm distance off an object to be measured, and under luminance of 10% or more against full scale) • Chromaticity : ± 0.002 or less (deviation of xy) by standard A light source (at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and 70%RH or less, under luminance of 10% or more against a full scale) ± 0.01 or less (deviation of xy) by combined use of standard A light source, 3 wavelength band emitting fluorescent lamp and color filter (at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and 70%RH or less, under luminance of 5% or more against a full scale)
Weight	Approx. 380g (including battery)		
Power supply	Layer-built dry battery (9V x 1 piece) or AC adapter	Option	<ul style="list-style-type: none"> • Color management software (Color Mate 5) • RS-232C converter • BCD data output cable, etc.
Power consumption	80mW		
Measuring items	<ul style="list-style-type: none"> • Chromaticity coordinate : xyL, u'v'L' • Transmittance value : XYZ • Correlated color temperature : Tc, duv, L • Standard deviation (standard color for deviation : 8 data) at the respective chromaticity coordinate mentioned above 		
Measuring range	0.10 cd/m ² to 99990 cd/m ²		

※This instrument is traceable to the standard of National Metrology Institute of Japan (NMIJ).