

Color Meter



Model: CM-200S

Applications

The meter is an extremely compact, extremely easy-to-use tristimulus colormeter specially designed for measuring the color difference between two colors. The meter is designed for measuring the color of non-lighting and non-fluorescent sample such as textile, paper, leathers, painting materials, etc. It is the useful tool for the quality control and wide industrial application.

Features

- * Color difference displayed $\Delta(L^*, a^*, b^*)$, $\Delta(E^*ab, C^*ab, H^*ab)$, $\Delta(Y, x, y)$, $\Delta(X, Y, Z)$, $\Delta(Rs, Gs, Bs)$ or $\Delta(WI, YI, Tw)$
- * Color space displayed (L^*, a^*, b^*) , (L^*, C^*ab, hab) , (Y, x, y) , (X, Y, Z) , (Rs, Gs, Bs) or (WI, YI, Tw) .
- * Statistical function (Maximum, Minimum, Average and Standard Deviation)
- * Color difference tolerance set to perform PASS / WARN / FAIL.
- * Store 9 color-difference target colors.
- * User calibration function ensures higher accuracy.
- * Auto memory (99 sets) & Read function.
- * Digital backlight display.
- * Auto power off function.
- * Applies USB data output.

Specifications

Standard Accessories	Main Unit
	Measuring head
	White calibration card
	Carrying Case
	Operation Manual
Optional Accessories	USB Data Cable with Software

Specifications

Display	Triple 4 digit LCD Display
Auto power off	Approx. 3 minutes
Data memory capacity	99 set. (Direct reading from LCD display)
Low battery indication	√
Illuminating/Viewing geometry	45°/0°: Illumination at 45°, measurement at 0°
Measuring area	Color difference: $\Delta(L^*, a^*, b^*)$, $\Delta(E^*ab, C^*ab, H^*ab)$, $\Delta(Y, x, y)$, $\Delta(X, Y, Z)$, $\Delta(Rs, Gs, Bs)$ or $\Delta(WI, YI, Tw)$ Color space: (L^*, a^*, b^*) , (L^*, C^*ab, hab) , (Y, x, y) , (X, Y, Z) , (Rs, Gs, Bs) or (WI, YI, Tw)
Target color memory	9 channel; set by measurement or keypad
Measuring range	L*: 5 to 100
Measurement conditions	Observe: CIE 2° Standard Observer
Illuminant	White LED lamp
Repeatability	Standard deviation within ΔE^*ab 0.5 (Measurement conditions: Average of measurements of standard white plate)
Minimum interval between measurements	Approx. 2 seconds
Operating temperature and humidity:	0~40°C(32~104°F), < 85%RH.
Storage temperature and humidity:	-10~40°C(14~104°F), < 70%RH.
Power source	4x1.5 AAA (UM-4) Battery
Dimensions	140x73x35mm (5.5x2.9x1.4inches)
Weight	Approx. 220g with battery

