

CM-200S Colorimeter Color Difference Meter

Applications:

The meter is an extremely compact, extremely easy-to-use tristimulus colorimeter specially designed for measuring the color difference between two colors. The meter is designed for measuring the color of no 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:

The meter is designed for measuring the color of no 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.

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

Specifications:

1. Display: Triple 4 digit LCD Display
2. Auto power off: Approx. 3 minutes
3. Data memory capacity: 99 set. (Direct reading from LCD display)
4. Low battery indication
5. Illuminating/Viewing geometry: 45°/0°: Illumination at 45°, measurement at 0°
6. 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 $\Delta(WI, YI, Tw)$
7. Color space: (L^*, a^*, b^*), (L^*, C^*ab, hab), (Y, x, y), (X, Y, Z), (Rs, Gs, Bs) or (WI, YI, Tw)
8. Target color memory: 9 channel; set by measurement or keypad
9. Measuring range: L^* : 5 to 100
10. Measurement conditions: Observer: CIE 2° Standard Observer
11. Illuminant: White LED lamp
12. Repeatability: Standard deviation within ΔE^*ab 0.5 (Measurement conditions: Average of

measurements of standard white plate)

13. Minimum interval between measurements: Approx. 2 seconds
14. Operating temperature and humidity: 0~40°C (32~104°F), <85%RH.
15. Storage temperature and humidity: -10~40°C(14~104°F), <70%RH.
16. Power source: 4 x1.5 AAA (UM-4) Battery
17. Dimensions: 140 x 73 x 35mm (5.5x2.9x1.4inches)
18. Weight: Approx. 220g with battery
19. Optional: USB Data Cable with Software