



**CM-200S A portable device for measuring and analyzing colors**

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.

\* Color difference displayed ( $L^*$ ,  $a^*$ ,  $b^*$ ), ( $E^*ab$ ,  $C^*ab$ ,  $H^*ab$ ), ( $Y$ ,  $x$ ,  $y$ ), ( $X$ ,  $Y$ ,  $Z$ ), ( $R_s$ ,  $G_s$ ,  $B_s$ ) or ( $W_I$ ,  $Y_I$ ,  $T_w$ ).

\* Color space displayed ( $L^*$ ,  $a^*$ ,  $b^*$ ), ( $L^*$ ,  $C^*ab$ ,  $h_{ab}$ ), ( $Y$ ,  $x$ ,  $y$ ), ( $X$ ,  $Y$ ,  $Z$ ), ( $R_s$ ,  $G_s$ ,  $B_s$ ) or ( $W_I$ ,  $Y_I$ ,  $T_w$ ).

\* 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, Bluetooth data output.

\* Use USB data output to connect with PC.

## 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: ( $L^*$ ,  $a^*$ ,  $b^*$ ), ( $E^*ab$ ,  $C^*ab$ ,  $H^*ab$ ), ( $Y$ ,  $x$ ,  $y$ ), ( $X$ ,  $Y$ ,  $Z$ ), ( $R_s$ ,  $G_s$ ,  $B_s$ ) or ( $W_I$ ,  $Y_I$ ,  $T_w$ )

Color space: ( $L^*$ ,  $a^*$ ,  $b^*$ ), ( $L^*$ ,  $C^*ab$ ,  $h_{ab}$ ), ( $Y$ ,  $x$ ,  $y$ ), ( $X$ ,  $Y$ ,  $Z$ ), ( $R_s$ ,  $G_s$ ,  $B_s$ ) or ( $W_I$ ,  $Y_I$ ,  $T_w$ )

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 E\*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(Not Including Batteries)**

**Approx. 220g with battery**

**Standard Accessories**

**Main Unit**

**Measuring head**

**White calibration card**

**Carrying Case (B04)**

**Manual**

**Optional Accessories**

**USB Data Cable with Software**

