



CLRM-200

CLRM-300/310



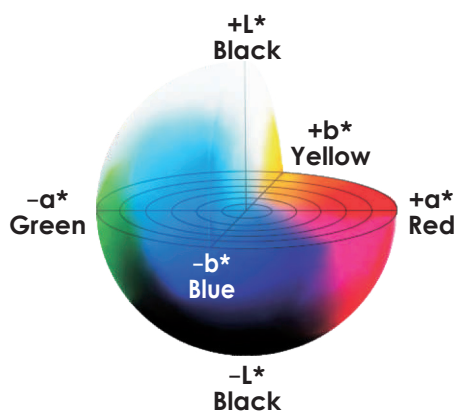
Universal Test Components



Powder Test Box

ΔE Total Color Aberration

large ΔL stands for the partial White color.
small ΔL stands for the partial black color.
large Δa stands for the partial red color.
small Δa stands for the partial green color.
large Δb stands for the partial yellow color.
small Δb stands for the partial blue color.



CLRM-200, CLRM-300, CLRM-310, High Quality Colorimeter

Advantages:

High Quality User Interface & Convenient Operation

- One-Touch Access to the Measurement Interface. (CLRM-200/300)
- Auto White and Black calibration at Startup. (CLRM-310)
- Structure Design in line with Ergonomics.
- Easy-to-use User Interface.

Stable Measurement Performance

- The average fluctuation of ΔE for CLRM-200 is less than 0.08, for CLRM-300 is between 0.04~0.06 & for CLRM-310 between in 0.03~0.06.
- Portable structure design is more conducive to keeping the instrument stable when using.

Flexible and Accurate Locating

- Camera locating can solve the problem of locating a small area. The minimum width of locating is 4mm. (CLRM-310)
- Illumination locating is a fast, simple and convenient locating which is created by CLRM-200/300/310.

More Measurement Modes (CLRM-310)

- Three measuring apertures to cover more measuring conditions
- Five color spaces for more color scheme selections.
- Three light sources suitable to cover more measuring conditions

PC Software-Realize More Function Expansion

- CLRM-200/300/310 has the intellectual property of PC software. The corresponding software serial number and password protection are configured in the colorimeter.
- Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulating object color, etc.

Advanced Power Management Design

- CLRM-200/300/310 is the first to use using high capacity Li-ion battery in colorimeter.
- CLRM-200/300/310 Li-ion battery can be repeatedly charged to save costs. As well as measuring more than 3000 times on one charge to ensure the stability of long time measurement.

Model	CLRM-200	CLRM-300	CLRM-310
Color Space	CIEL *a*b*C*h* CIEL *a*b CIEXYZ		CIEL *a*b*C*h* CIEL *a*b CIEXYZ CIERGB CIEL *u*v* CIEL *C*h Yellowness & Whiteness Color Fastness
Color Difference Formula	ΔE^*ab ΔL^*a^*b $\Delta E^*C^*h^*$		ΔE^*ab ΔL^*a^*b $\Delta E^*C^*h^*$ $\Delta ECI94$ ΔE_{Hunter}
Illuminating/Viewing Geometry	8/d		
Detector	Silicon photoelectric diode		
Measuring Aperture	Φ8mm		Φ4mm / Φ8mm
Light Source	D65		D65 D50 A
Light Source Device	LED blue light excitation		
Lamp Life	5 years, more than 1.6 million		
Dimension	205 x 70 x 100 mm		205 x 67 x 80 mm
Storage	100pcs standards 20000pcs samples		
Weight	500g		
Errors Between Each Equipment	$\leq 0.50 \Delta E^*ab$	$\leq 0.40 \Delta E^*ab$	$\leq 0.40 \Delta E^*ab$
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh		