ZL310 High Quality Colorimeter

- Patent Technology: camera locating
- Patent Technology: automatic white calibration at startup
- Patent Technology: extended aperture to measure concave surface
- Double Measuring Apertures: 8mm and 4mm apertures which can be switched.
- Configure rechargeable Li-ion battery



ZL Series High Quality Colorimeter

Color So Rich in Beauty







ZL310 High Quality Colorimeter

1. Leading Humanity Design and Convenient Operation

- Auto White and Black Calibration at Startup
- Structure Design in line with Ergonomics
- Easy-to-use Operator Interface

2. Stable Measurement Performance

- The average fluctuation of △E is less than 0.06, actually more in 0.03~0.06.
- Portable structure design is more conductive 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.
- Illumination locating is a fast, simple and convenient locating

4. More Measurement Modes

- Three measuring apertures for more circumstances.
- Five color spaces for more color scheme selections.
- Three light sources suitable for more occasions.

5. PC Software—Realize More Function Expansion

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

6. Advanced Power Management Design

- ZL is the first enterprise using high capacity Li-ion battery in colorimeter.
- ZL Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more
 than 3000 times on one charge to ensure the stability of long time measurement.

△E Total Color Aberration

- △L is large stands for the color is partial white.
- ΔL is small stands for the color is partial black.
 Δa is large stands for the color is partial red.
- △a is large stands for the color is partial red.
 △a is small stands for the color is partial green.
- ∆b is large stands for the color is partial yellow.
- Δb is large stands for the color is partial yellow Δb is small stands for the color is partial blue.



Applicable Industries



Technical Specifications

Illuminating/Viewing Geometry: 8/d Measuring Aperture: Φ 8mm/ Φ 4mm Detector: Silicon photoelectric diode

Color Space: CIEL*a*b*C*h* CIEL*a*b* CIEXYZ CIERGB CIEL*u*v* CIEL*C*h Yellowness & Whiteness Color Fastness

Color Difference Formula: △E*ab △L*a*b* △E*C*h* △ECIE94 △Ehunter

Light Source: D65 D50 A

Light Source Device : LED blue light excitation Errors Between Each Equipment : ≤0.40 △ E*ab Storage : 100pcs standards 20000pcs samples

Repeatability: Standard deviation within ΔE^* ab 0.06 Average of 30 measurements of standard white plate

Weight: 500g

Dimension: 205 × 70 × 100 mm

Power source: Rechargeable lithium-ion battery 3.7V@3200mAh

Lamp Life: 5 years, more than 1.6 million measurements

Distribuito da:

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