

WR-Colorimeter WR18 (4mm 8mm 40 mm)



- 1. Connect PC software to print out data report;
- 2. 4mm, 8mm and biggest 40mm alternative aperture, to meet different surface measurement demands;
- 3. Automatic correction when starting up, no need to do calibration manually each time;
- 4. Cost-efficient: good performance, stable measurement, low cost.
- Product description: WR18 includes 3 switchable apertures (4mm/8mm/40mm), this version is a specially designed, high performance precision colorimeter.

Introduction:

Hand-held colorimeter WR18 is years of painstaking development of the high-precision colorimeter, serially developed according to the measuring requirements on different products and gain many optimal achievements with cost performance.

It can be applicable in textile, printing and dyeing, clothing, footwear, leather, chemicals, plastics, film, pigments, paints, inks, metal, photography, toys, food medicine and other liquid, powder and special industry for color quality control, color analysis, sample testing, production line testing, also suitable for injection molding, ink, paint, spray and other color industries. Also extensive used in researching institution and laboratory. It can precisely measure kinds of color index in color space, help to analyze color matching freely and color management, with color analysis software, it will extend more functions.



Aperture 4mm is specially design, considering small area and curvature measurements. It is suitable for measuring small device, gadget, small parts etc.

Aperture 8mm version is a general-purpose color difference meter, mostly used on flat surface materials. It provides great convenience and trustworthy reliability for its versatility, tiny table difference, and stability.

Aperture 40mm can be used for huge textured, uneven and pitting surface, also wet sample, like meat, fish...

Data sheet

Model	WR-18
Color Space	CIELAB CIELCH CIEXYZ sRGB
Color Difference Formula	ΔE^*ab ΔE^*LCH
Aperture	Φ4mm/φ8mm φ40mm (Optional)
Illumination Condition	CIE Recommendation : 8/d
Light Source	D65 A F(CWF)
Sensor	Photodiode array
Observer	CIE 10° Standard observer
Measurement Range	L: 0 to 100
Repeated Accuracy	$\Delta E < 0.06$
Table Difference	$\Delta E < 0.2$
Measurement Interval	0.5 Sec.
Storage Capacity	Type sample data : 100 groups with testing sample data: 200 groups
Lifetime of Bulb	5 years more than 1.6 million measurements
Display Screen	TFT true color 2.8inch@(16:9)
Language	English/Simplified Chinese
Interface of External	USB2.0 (USB-B) RS-232 (115200bps)
Working Temperature	0°C-40°C (32°F-104°F)
Storage Temperature	-20°C-50°C (-4°F-122°F)
Humidity Range	Relative humidity less than 85%,without condensation
Weight	700g
Size	199*68*90mm
Battery Charging Time	8 hrs

Battery	Li-ion battery, 5000 times Measurement
Standard Accessories	AC adapter/ 3000mAH Li-ion battery/User manual/Warranty card/USBdata line/ Color-analysis software/White board
Optional Accessories	Flour measuring device/Micro printer/liquid, powder, pulp accessory

Software

