

پترو فرهان گستر جنوب

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Colorimeter

# COLOR MEASUREMENT EXPERT

Color matching cloud

FAST PRECISE INTELLIGENT STABLIZE PORTABLE



Quick measurement



Support APP



Dual CMOS sensor



Metrology Certification

## Color matching cloud software

Color difference treasure + color matching cloud can also realize the function of color matching software, which is often used in industries such as beauty sewing color matching.

# INTELLIGENT COLOR MEASUREMENT

1

## Repeatability accuracy <math>< 0.05</math>

After continuous testing and calibration, stable measurement results and better repeatability are obtained to ensure the accuracy of measurement



2

## Inter-instrument agreement <math>< 0.2</math>

Ensure the consistency of measurement data of multiple devices, which can be used for color matching and accurate color transfer.



3

## APP built-in a large number of color cards

It can be connected to the mobile phone APP through Bluetooth, and the APP has built-in multiple color cards, thousands of color numbers, involving paint, design, decoration and other fields, color matching is more convenient to find colors



## Multifunctional smart button

The "smart button" that comes with the instrument can independently complete the measurement function setting or test data review without connecting a mobile phone and a computer, and can take into account various functions of color difference treasure and color management.



## 30+ Color indicators, 28+ Evaluation light sources

Provide CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, Hunter Lab, pxy, DIN Lab99 and other color space measurement indicators, D65, A, C, D50, D55, D75, F1, F2 (CWF), F3, F4, F5, F6, F7 (DLF), F8, F9, F10 (TPL5), F11 (TL84), F12 (TL83/U30), U35, NBF, ID50, ID65 and other observation light sources.

## Can be used independently or connected to a mobile phone

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## Touch-based Automatic Whiteboard Calibration

Every Colorimeter has undergone calibration testing. After each instrument leaves the factory, it is calibrated according to the measurement standards of authoritative calibration departments, with measurement data traceable to the National Metrology Institute, ensuring the authority of the instrument's test data.



# Colorimeter series

	Colorimeter MAX (Enhanced version)	Colorimeter HI (Premium version)	Colorimeter TOP (Special version)
Geometry	D/8 (Diffuse illuminance, 8°reception, SCI), Conforms to standards CIE No.15, GB/T 3978.		
Integrating sphere size	Φ20mm		
Sensor	CMOS dual optical path sensor		
Wavelength Range	400~700nm		
Wavelength Range	10nm		
Measuring Aperture	Φ8mm		
SCI/SCE	SCI		
Color Spaces	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99		
Color Difference Formula	$\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$ , DIN $\Delta E99, \Delta E$ (Hunter)		
Other Color Index	Spectral reflectance,WI (ASTM E313,CIE/ISO,AATCC,Hunter),YI (ASTM D1925,ASTM 313), metamerism index Mt,color fastness,color fastness,strength,opacity,555 shades Classification, Munsell (C/2) (Mobile phone APP implementation)		
Observer Angle	2°/10°		
Light source	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5), F11(TL84),F12(TL83/U30),U35,NBF,ID50,ID65		
Display	Sample chromaticity value, color difference value/map, pass/fail result, color simulation, color deviation, reflectance (partially realized through mobile APP)		
Measuring Time	about 1s		
Inter-instrument agreement	$\Delta E^*00 < 0.2$ (Measurement average of 12 colored bricks of BCRA II series)		
Repeatability	Chromaticity value: within $\Delta E^*ab$ 0.05 (average of 30 times of whiteboard measurement at 5s interval)	Chromaticity value: within $\Delta E^*ab$ 0.045 (average of 30 times of whiteboard measurement at 5s interval)	Chromaticity value: within $\Delta E^*ab$ 0.04 (average of 30 times of whiteboard measurement at 5s interval)
Multifunctional smart buttons	None	Multifunctional smart keys (instrument can set parameters and check measurement data)	
Whiteboard check method	Contact automatic whiteboard verificatio		
Display Accuracy	0.01		
Dimension	Ø30X100mm		
Weight	about 88g		
Battery	Lithium battery, can do tests continuously for 12000 times in a single full charge		
Display screen	IPS full color screen, 1.14 inch		
Interface	Type-C USB; Bluetooth		
Data storage	Standards: 10pcs, Samples: 100pcs. Mass storage can be expanded through mobile APP		
Software support	Android, IOS, Windows, WeChat applet, Hongmeng, color matching cloud		

## APPLICATION INDUSTRY

Colorimeter is used for color difference quality control in plastic electronics, paint coatings, textile and garment printing and dyeing, ceramics and other industries; multiple data can be measured through the mobile APP, and color difference measurement and color matching can be easily realized. The instrument is small in size, easy to carry, and has APP to find color cards Function.

