

## ColorMeter SE\Pro\Max Introduction



ColorMeter SE\Pro\Max is an innovation color measuring tool with powerful configuration to make color measurement easier and more professional; It support Bluetooth to connect with Android and ISO devices, ColorMeter SE\Pro\Max will take you into a new world of color management; It can be widely used to measure color value, color difference value and find similar color from color cards for printing industry, paint industry, textile industry, etc.

### Part 1. Instrument Function Introduction

#### 1. Measure Color Value

- Adopt international used D/8 (Diffused Illumination, 8 degree viewing) geometry and SCI mode to make measurement more accurate.
- Adopt spectral sensor to provide reflectance curve/data which make its performance much better than colorimeter.
- To get correct L\*a\*b, L\*Ch, RGB, Hex and other color value under light source D65 or D50. (Color Meter Pro and Max)
- It can measure whiteness index, yellowness index, color strength, color fastness, opacity and other 20 kinds of parameters with 26 kinds of illuminants. (Color Meter Pro and Max)



Operate on Instrument



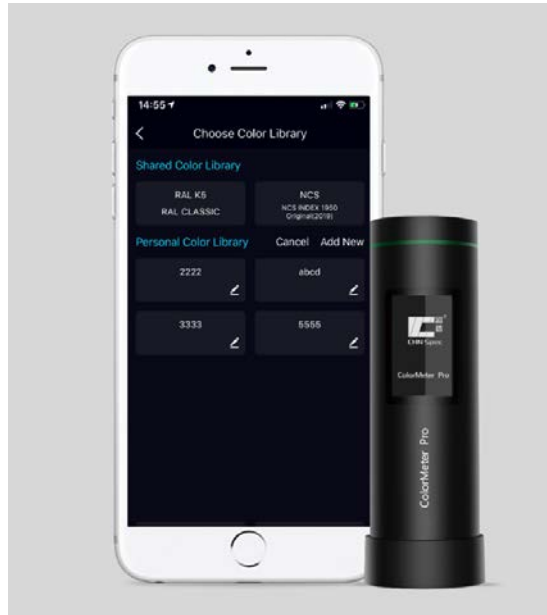
Operate from APP

## 2. Measure Color Difference Value

- “Pass” or “Fail” judgment can be seen from both instrument and APP.
- $\Delta E^*ab$ ,  $\Delta E^*CH$  and other color difference formulas, display color difference value, color difference evaluation results. (Color Meter Pro and Max)
- Connect to App for color difference evaluation, color difference tolerance and parameters can be set in APP.

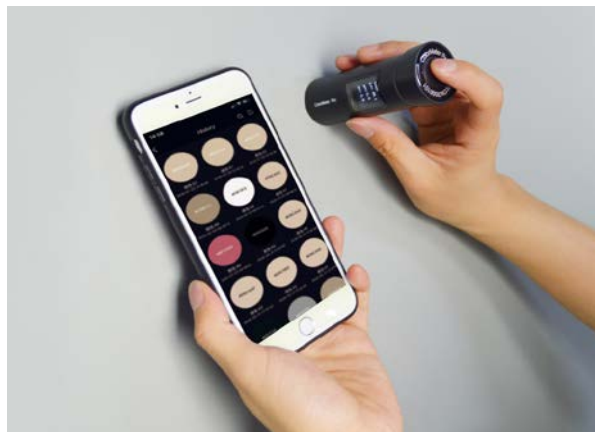
## 3. Portable and Massive Color Card Database

- Bluetooth to connect with mobile phone APP to create database to upload the color shades from printing, paint, textile color cards.
- No need to carry big and heavy color card, we can find color card database from Colormeter SE\Pro\Max APP and find the closed/similar color easier and faster.



#### 4. Artificial Intelligence for Accurately Measure Color

- AI-based color search engine for accurately measure color;
- Color can be collected anywhere and anytime.



#### 5. Innovation Design for Auto Black and White Calibration

- Auto instrument black and white calibration for easier and correct color test
- APP will remind for calibration if instrument works for long time
- From APP we can do manual calibration and set calibration interval.

#### 6. Single Instrument for Test and Save Test Value

- 1.14 inches IPS display screen to show color information.
- Data can be saved on instrument and instrument data can be synced into APP.

7. Cloud database, more convenient to view and upload

- Official color card databases are available.
- Personal users can update color information to cloud and share between different instruments which make color management much easier.
- Enterprise users can create and manage their own color card library and formula information in the cloud and share the information to their customers and suppliers through the unique invitation code.

**Part 2. Packing List**



Name	Qty.
Instrument	1
Type-C Cable	1
Operate Manual	1

**Part 3. Technical Data**

	Basic Edition	Professional Edition	Enhanced Edition
<b>Name</b>	ColorMeter SE	ColorMeter Pro	ColorMeter MAX
<b>Instrument Color</b>	Blue	Black	Dark Sea Blue(Rubber Paint)
<b>Illumination and Viewing System</b>	D/8, SCI (specular component included)	D/8, SCI (specular component included)	D/8, SCI (specular component included)
<b>Color Spaces, Color Difference and Indices</b>	CIE-Lab, $\Delta E^*ab$ , Reflectance Curve	Reflectance, CIE-Lab, CIE-LCh, Hunter Lab, CIE-Luv, XYZ, Yxy, RGB, Color Difference ( $\Delta E^*ab$ , $\Delta E^*cmc$ , $\Delta E^*94$ , $\Delta E^*00$ ), Whiteness Index (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), Yellowness Index (ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness Index(My,dM), Staining Fastness, Color Fastness, Tint(ASTM E313-00), Color Density CMYK(A,T,E,M), Metamerism Index Milm, Munsell, Opacity, Color Strength	Reflectance, CIE-Lab, CIE-LCh, Hunter Lab, CIE-Luv, XYZ, Yxy, RGB, Color Difference ( $\Delta E^*ab$ , $\Delta E^*cmc$ , $\Delta E^*94$ , $\Delta E^*00$ ), Whiteness Index (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), Yellowness Index (ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness Index(My,dM), Staining Fastness, Color Fastness, Tint(ASTM E313-00), Color Density CMYK(A,T,E,M), Metamerism Index Milm, Munsell, Opacity, Color Strength
<b>Light Source</b>	LED (Full Wavelength Balanced LED Light Source)	LED (Full Wavelength Balanced LED Light Source)	LED (Full Wavelength Balanced LED Light Source)
<b>Test Aperture</b>	8mm	8mm	8mm
<b>Wavelength Interval</b>	/	10nm	10nm
<b>Wavelength Range</b>	/	400-700nm	400-700nm
<b>Repeatability</b>	$\Delta E \leq 0.1$ (when a white tile is measured 30 times at 5-second intervals after calibration)	$\Delta E \leq 0.1$ (when a white tile is measured 30 times at 5-second intervals after calibration)	$\Delta E \leq 0.05$ (when a white tile is measured 30 times at 5-second intervals after calibration)
<b>Inter-Instrument Agreement</b>	$\Delta E^*00 < 0.4$ (BCRA Series II, average measurement of 12 tiles)	$\Delta E^*00 < 0.4$ (BCRA Series II, average measurement of 12 tiles)	$\Delta E^*00 < 0.2$ (BCRA Series II, average measurement of 12 tiles)
<b>Measurement Time</b>	1.5s	1.5s	1s
<b>Interface</b>	USB(only for power charge) ,bluetooth	USB,bluetooth	USB,bluetooth
<b>Illuminants</b>	D65	A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,U35,DLF,NBF,TL83,TL84	A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,U35,DLF,NBF,TL83,TL84
<b>Observer</b>	10°	2°, 10°	2°, 10°
<b>Display Screen</b>	IPS Full Color Screen (135*240,1.14inch)	IPS Full Color Screen (135*240,1.14inch)	IPS Full Color Screen (135*240,1.14inch)
<b>Battery</b>	Rechargeable, 5,000 continuous tests	Rechargeable, 10,000 continuous tests	Rechargeable, 10,000 continuous tests
<b>Language</b>	English and Chinese	English and Chinese	English and Chinese
<b>Calibration</b>	Auto	Auto	Auto
<b>Software Support</b>	Andriod,IOS	Andriod,IOS,Windows	Andriod,IOS,Windows
<b>Weight</b>	about 90g	about 90g	about 90g
<b>Instrument Size</b>	Diameter 31mm , Height 102mm	Diameter 31mm , Height 102mm	Diameter 31mm , Height 102mm
<b>Storage Memory</b>	APP unlimited storge	APP unlimited storge	APP unlimited storge
<b>Test Accuracy</b>	0.1	0.1	0.01
<b>Support app</b>	Yes	Yes	Yes
<b>Support PC Software</b>	No	Yes	Yes

## Part 4. Detail Pictures



## Part 5 Technical Support



1. One Year Warranty.