

The MS3005 multi-angle spectrophotometer adopts an industrial-grade MCU and is equipped with 5 measurement angles. With the support of the superior optical measurement system, the MS3005 multi-angle spectrophotometer has excellent performance in multi-angle color difference measurement, even on curved surfaces. , It also has high measurement accuracy and stability.

Product features



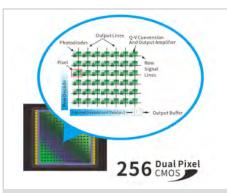
1, Multi-angle measurement

Adopt 5 illumination sources, 1 receivers to measure 5 measurement angles at the same time



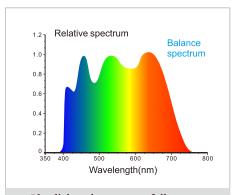
2, More intuitive display

Touch screen can display all Angle measurement results, more intuitive view of the comprehensive data



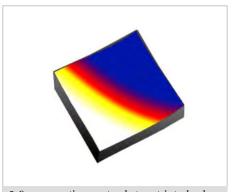
3, 256 Image Element Double Array CMOS Image Sensor

Higher optical resolution ensures the measurement speed, accuracy, stability and consistency of the instrument



4, Blue light enhancement, full spectrum

Full spectrum illumination measurement is more $professional\,to\,avoid\,spectrum\,loss$



5, Concave grating spectrophotometric technology

Using concave grating spectrophotometric technology, with higher resolution, makes color measurement



6, Professional-grade white board

Professional-grade white board, high hardness in the surface, stable optical performance



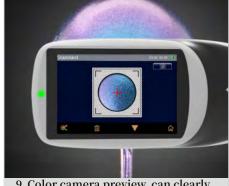
7, Higher quality

Industrial grade real-time processing MCU, supports WIFI, Bluetooth 5.0 transferring more stable and reliable



8, Ergonomics Novel and fashionable appearance design

The appearance of the instrument is designed for easy operation and can meet different holding habits

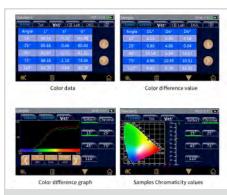


9. Color camera preview, can clearly observe the measured area Built-in color camera positioning, can accurately judge the object measured position, and improve the measurement efficiency and accuracy



10, Multiple color measurement space, multiple observation light sources

Provide 6 color spaces, multiple observation light sources



11, Easily analyze data

Multiple functions, the screen can display various



12, Support PC software

Can be connected to a computer, use computer control to measure and manage data

APPLICATION INDUSTRY















MS3005 Product parameter

Measurement Geometry 5 measurement angles (5 illumination sources, 1 receivers) Measuring angle 45°Receiver: 45as15°, 45as25°, 45as45°, 45as75°, 45as110°

Conform to the standards ASTM D2244,E308,E1164,E2194, E2539,DIN 5033,5036,6174,6175-1,6175-2;ISO 7724, 11664-4, SAE J1545

Application Provide accurate and consistent color measurement for metallic, pearlescent and other complex special effect color products

Lighting source Full spectrum LED light source with blue enhancement

Lamp Life 5 years, 3 million times measurements

Spectrophotometric Mode Concave grating

> 256 Image Element Double Array CMOS Image Sensor Sensor

Wavelength Range 400nm-700nm Wavelength Interval 10nm Measurement Range 0~600% **Semiband Width** 10nm **Measuring Aperture**

CIE LAB,XYZ,Yxy,LCh,βxy,DIN Lab99 Color Space

Color Difference Formula $\Delta E^*ab, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, DIN\Delta E99, \Delta EDIN6175$

Other Colorimetric Index Flop Index Observer Angle 2°/10°

> D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30) llluminant

Displayed Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset

Measuring Time Approx. 1 second for one angle, Approx. 5 seconds for all angles

Spectral reflectance: Standard deviation within 0.08% Chromaticity value: ΔE*ab 0.03 Repeatability

(When a white calibration plate is measured 30 times at 5 second intervals after white calibration)

Reproducibility ΔE*<0.10,avg on the gray tile of BCRA tile set Δ E*<0.25,avg on the color BCRA tile set **Inter-instrument Error** 0.2ΔE*00 (avg on reference Series II BCRA tile set)

Effect Parameters Effect Measurement Effect Repeatability

Effect Reproducibility

Trigger mode Pressure sensing trigger, key trigger, software trigger

Single measurement, average measurement (1-99), continuous measurement (1-99) Measuring Mode

Color camera preview **Locating Method**

> Dimension Length x width x height=195X83X128mm

> > about 1Kg Weight

lithium-ion battery, 3.7V,3200mAh, Continuous test 6000 times within 8 hours of full charge Power

Display screen 3.5-inch TFT color LCD, Capacitive Touch Screen

USB, Bluetooth Interface

Standard 1000 Pcs, Sample 4000 Pcs **Data Storage**

Language Simplified Chinese, English, Traditional Chinese

10°C to 50°C, humidity does not exceed 85%, no condensation Operating Environment Storage Environment -20°C to 50°C, humidity does not exceed 85%, no condensation

Built-in white board parameters, external white board, black light trap Calibration **Calibration interval** 4 hours, 8 hours, 24 hours, Startup calibration

Power Adapter, USB Cable, User Guide, PC Software (download from the official website), Calibration Board, black light trap, Standard accessories

Protective cap, wristband

Optional accessories Micro Printer

SHENZHEN THREENH TECHNOLOGY C O . , L T D .



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths













