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MULTIPLE ANGLES ONE-KEY MEASUREMENT

Tailored for car paint color inspection

MS3003

Multi-angle spectrophotometer MS3003 is used to evaluate the effect of the surface of the topcoat

The appearance is affected by different viewing angles and viewing conditions, Can be used for metallic, pearlescent and

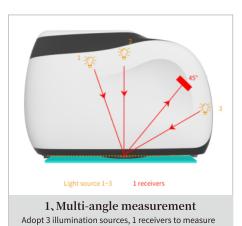
other complex special effect colors

The product provides accurate and consistent color measurement.



ISO 9001 **♂**Certified

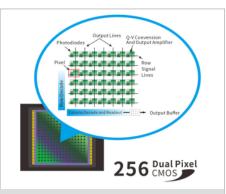
Product features



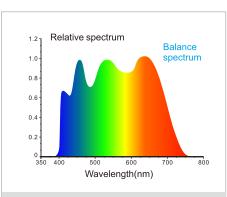


2, More intuitive display

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

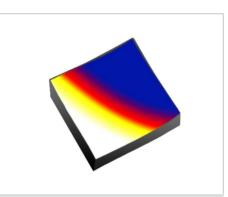


3, 256 Image Element Double Array CMOS Image Sensor Higher optical resolution ensures the measurement speed, accuracy, stability and consistency of the instrument

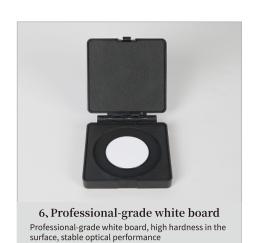


3 measurement angles at the same time

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

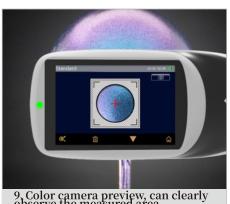




7, Higher quality Industrial grade real-time processing MCU, supports WIFI, Bluetooth 5.0 transferring more stable and reliable



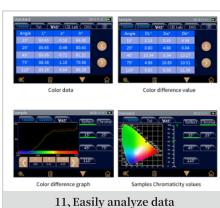
8, Ergonomics Novel and fashionable appearance design The appearance of the instrument is designed for easy operation and can meet different holding habits



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



Multiple functions, the screen can display various data intuitively



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

APPLICATION INDUSTRY















MS3003 Product parameter

3 measurement angles (3 illumination sources, 1 receivers) **Measurement Geometry**

Measuring angle 45°Receiver: 45as 25°, 45as 45°, 45as 110°

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

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

> Sensor 256 Image Element Double Array CMOS Image Sensor

Wavelength Range 400nm-700nm Wavelength Interval Measurement Range 0~600% Semiband Width 10nm **Measuring Aperture** Φ12mm

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

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

> 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. 3 seconds for all angles

Repeatability Spectral reflectance: Standard deviation within 0.08% Chromaticity value: ΔE*ab 0.04

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

Reproducibility Δ E*<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

Pressure sensing trigger, key trigger, software trigger Trigger mode

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

Locating Method Color camera preview

Length x width x height=195X83X128mm Dimension

> Weight about 1Kg

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

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

USB Interface

Standard 1000 Pcs, Sample 4000 Pcs Data Storage

Simplified Chinese, English, Traditional Chinese Language

Operating Environment 10°C to 50°C, humidity does not exceed 85%, no condensation -20°C to 50°C, humidity does not exceed 85%, no condensation Storage Environment Built-in white board parameters, external white board, black light trap Calibration

4 hours, 8 hours, 24 hours, Startup calibration Calibration interval

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

Protective cap, wristband

Micro Printer Optional accessories

C O . , SHENZHEN THREENH TECHNOLOGY LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts







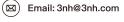
Light Booths



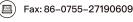




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