Dedicated to car surface inspection



MULTI-ANGLE SPECTROPHOTOMETER

Powerful and easy to carry



MS3008 Product Introduction









Product features



Adopt 6 illumination sources, 2 receivers to $measure\,8\,measurement\,angles\,at\,the\,same\,time.$



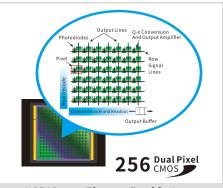
2, More intuitive display

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



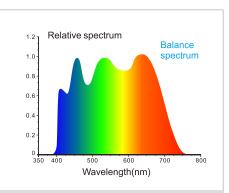
3. Effect measurement discrimination function

Quickly distinguish the sample Sparkle Grade(SG), Diffuse coarseness(DC) and Color Variation(CV), simple and effective quality inspection.



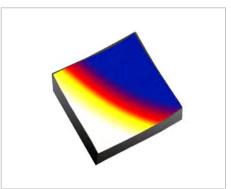
4, 256 Image Element Double Array CMOS Image Sensor

The higher optical resolution ensures the measuring speed, accuracy, stability and consistency of the instrument.



5, Adopt Full spectrum LED light source with blue enhancement

This avoids the lack of spectrum of LEDs in specific



6. Concave grating spectrophotometric technology

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



7, Professional-grade white board

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



8, Higher quality

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



9, Ergonomics Novel and fashionable appearance design The appearance of the instrument is easy to operate and can meet different holding habits.



10, Color camera preview, can clearly observe the measured area

Camera framing and positioning, can accurately determine the measured part of the object



11. Multiple color measurement space, multiple observation light sources
Provide 6 color spaces, multiple observation light



12, Easily analyze data

Multiple functions, the screen can display various data intuitively

APPLICATION INDUSTRY















MS3008 Product parameter

Measurement Geometry 8 measurement angles (6 illumination sources, 2 receivers)

Measuring angle 45°Receiver:45as-15°,45as15°,45as25°,45as45°,45as75°,45as110° 15°Receiver:15as-45°,15as-15°

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** Φ12mm

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

Color Difference Formula ΔΕ*ab,ΔΕ*94,ΔΕ*cmc(2:1),ΔΕ*cmc(1:1),ΔΕ*00, DINΔΕ99,ΔΕ DIN6175

Other Colorimetric Index Flop Index, Int-Em

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

Spectral graph/value, sample chromaticity value, color difference value/graph, pass/fail result, color simulation, Displayed

sample effect value, effect difference value

Measuring Time Single angle measurement time is about 1s, all angle measurement takes about 12s Repeatability Reflectance: standard deviation within 0.08%, chromaticity value: 0.03 ΔE*ab

(after the instrument is warmed up and corrected, the average value of 30 measurements on the whiteboard at an interval of 5s)

 $\Delta E^* < 0.10$, avg on the gray tile of BCRA tile set $\Delta E^* < 0.25$, avg on the color BCRA tile set Reproducibility

Inter-instrument Error 0.18ΔE*00 (avg on reference Series II BCRA tile set)

Sparkle Grade(SG), Diffuse coarseness(DC) and Color Variation(CV) Effect Parameters

6 angles Sparkle Grade(SG), Color Variation(CV):15as-45°,15as-30°,15as-15°,15as45°,15as45°,15as80° 15d Diffuse coarseness(DC) **Effect Measurement Effect Repeatability** Sparkle Grade(SG) Short-term repeatability: 0.12% (10 times standard deviations) (When a color plate is measured 10 times at 10

second intervals after white calibration)

Diffuse coarseness(DC) Short-term repeatability:e0.09% (10 times standard deviations) (When a color plate is measured 10 times

at 10 second intervals after white calibration)

Effect Reproducibility Sparkle Grade(SG) Reproducibility: 1.9% (10 times standard deviations) (avg on reference Series II BCRA tile set)

Diffuse coarseness(DC) Reproducibility: 1.4% (10 times standard deviations)(avg on reference Series II BCRA tile set)

Pressure sensing trigger, key trigger, software trigger Trigger mode

Single measurement, average measurement (1-99), continuous measurement (1-99) **Measuring Mode** Color camera preview

Locating Method 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

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

Interface USB, Bluetooth

Standard 1000 Pcs, Sample 4000 Pcs Data Storage

Simplified Chinese, English, Traditional Chinese Language

Built-in white board parameters, external white board, black light trap, color board Calibration

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

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

TECHNOLOGY CO., LTD. SHENZHEN THREENH



Spectrophotometers Colorimeters





Haze Meters



Gloss Meters











