$\angle 15^{\circ}$ ∡45°

∡110°

SPECTROPHOTOMETER



MS3000

The MS3000 multi angle spectrophotometer adopts an industrial grade MCU and is equipped with three measuring angles. With the help of an optical measuring system with superior performance, the MS3000 multi angle spectrophotometer has excellent performance in the measurement of multi angle color difference. Even on curved surfaces, it also has high measurement accuracy and stability



Easy to use and convenient colorimeter











Product features



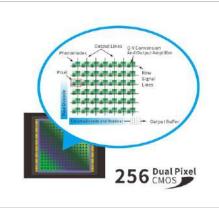
1, Multi angle measurement

Three light sources and one receiver are used to measure three angles simultaneously

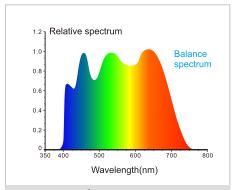


2. More intuitive display

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

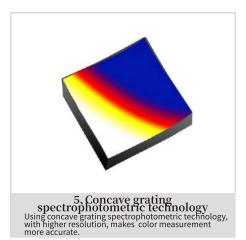


3、256 Image Element Double Array CMOS Image Sensor
The higher optical resolution ensures the measuring speed, accuracy, stability and consistency of the instrument.



4, Balance spectrum

The blue light enhanced full spectrum LED light source ensures sufficient spectral distribution in the visible light range, and avoids the spectral loss of LED in specific bands.





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



7, Higher quality

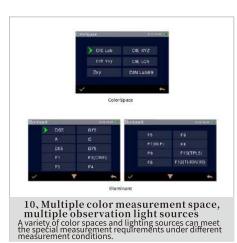
Industrial grade real-time processing MCU, Bluetooth 5.0 transferring more stable and reliable.

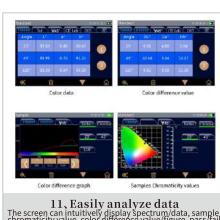


The instrument appearance design is easy to operate, and the hand holding position and the measurement button are well-designed.



9、Camera positioning
Built-in color camera positioning, can accurately
judge the object measured position, and improve
the measurement efficiency and accuracy.





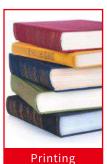
11, Easily analyze data
The screen can intuitively display spectrum/data, sample
chromaticity value, color difference value/figure, pass/fail
results, color simulation, sample effect value, effect
difference value and other data.

APPLICATION INDUSTRY

Multi angle spectrophotometer is widely used in plastics, electronics, paint and ink, textile and clothing printing and dyeing, printing paper, automobile, medical, cosmetics and food industries.















MS3000 Product parameters

Measuring geometry 3 measuring angles (3 light sources, 1 receiver) 45 ° receiver: 45as15°,45as45°,45as110° Measuring angle

Compliance with standards ASTM D2244,E308,E1164,E2194,E2539,DIN 5033,5036,6174,6175-1,6175-2,ISO 7724,11664-4, SAE J1545

> Features Provide accurate and consistent color measurement for metal color, pearlescent color and

> > other complex color products with special effects

Lighting source Blue enhanced full spectrum LED Lamp life 3 million measurements in 5 years

Light splitting mode Concave grating

> Detector 256 pixel dual array CMOS image sensor

Measuring wavelength range 400nm-700nm Wavelength interval 10nm

Measuring range 0~600% Half bandwidth 10nm

Measuring caliber lighting Φ 23mm/sampling 9X12mm (customizable: lighting Φ 10mm/sampling 6X8mm)

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

Colour-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 chromaticity indexes Flop Index Observer angle 2°/10°

Observation 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)

Display Spectrogram/data, sample chromaticity value, color difference value/graph, qualified/unqualified results, color simulation

Measuring time Single angle measurement takes about 1s, and all angles measurement takes about 3s **Color Repeatability** Spectral reflectance: standard deviation within 0.08%, chromaticity value: 0.04 Δ E * ab

(after preheating and correction of the instrument, measure the average value of the whiteboard 30 times at an interval of 5s)

Color Reproducibility \triangle E *<0.10, average value on gray BCRA color plate, \triangle E *<0.25, average value on color BCRA color plate

Difference between instruments 0.2ΔE*00(Average value of 12 color plates of BCRA series II)

Trigger mode Key trigger, software trigger

Measurement method Single measurement, average measurement (1-99 times), continuous measurement (1-99 times)

Positioning method Camera view

> L x W x H=195X83X128mm Size

Weight about 1Kg

Battery level Lithium battery, 3.7V, 5000mAh, can be tested continuously for 800 times within 8 hours of full charge

Display TFT true color 3.5inch, capacitive touch screen

Interface USB Bluetooth

Store data 1000 standard samples, 4000 samples Language Chinese (Simplified, Traditional) English

Calibration Built in whiteboard parameters, external whiteboard and black cylinder

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

Standard accessories Power adapter, data cable, manual, quality management software (downloaded from the official website),

correction box, black cylinder, protective cover, wrist strap

Optional Accessories Micro printer

GUANGDONG THREENH TECHNOLOGY CO., LTD.







Colorimeters Haze Meters



Gloss Meters













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