



3nh Global



INTELLIGENT MEASURE ONE-BUTTON TO COMPLETE

ISO 9001 Certified CE SCM TUV RoHS FC



camera locating



360-780nm full spectrum



multiple measure model



7 inch color touch screen

YS6003 Benchtop Grating Spectrophotometer

YS6003 Benchtop spectrophotometer is widely used in color difference of quality control for various products ,YS6003 is equipped with high-end color management software,which can be connected to a computer for more functions.The instrument has stable performance, accurate color measurement and powerful function. It is widely used in plastics,paints, inks,textile and garment printing, dyeing, printing paper,automotive, medical,cosmetics,food industries,scientific research institutions and laboratories

APPLICATION INDUSTRY

YS 6003 benchtop spectrophotometer is designed for accurate analysis and transmission of laboratory color and appearance:It's widely used in plastics,paints,inks,textile and garment printing, dyeing, printing paper,automotive, medical,cosmetics,food industries,scientific research institutions and laboratories.



Automobile



Leather



Plastics



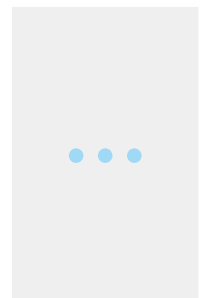
Paint



Food stuff



Laboratory



Others

PRODUCT FEATURES

- 1、 High configuration of hardware: 7 inches TFT Color Capacitive Touch-screen Display; Bluetooth 2.1; Concave Grating.
- 2、 Double Array 256 Image Element CMOS Sensor; Long life-span stable xenon lamp.
- 3、 With reflective and transmissive spectrum, accurate Lab value, good to calculate color formula and do precise color transmission.
- 4、 Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm.
- 5、 Built-in temperature sensor to monitor and compensate the measuring temperature to ensure the measurement more precision.
- 6、 Wavelength range 360nm – 780nm. It can be used to test fluorescent samples with wide applicability and simple operation
- 7、 Independent light source detector to ensure the light source reliable.
- 8、 Multiple measurement modes: Quality Management Mode, Sample Mode; Meet more users' requirement.
- 9、 Multiple accessories, sample holders, fixation clamp, suitable to more working condition.
- 10、 Big capacity data storage, for 20000 pieces test result.
- 11、 Built-in camera locating.
- 12、 More powerful extended functions at the PC software.



PRODUCT FEATURES



plastic sample

Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle) Conforms to ISO7724/ 1、 CIE、 ASTM、 DIN and JIS



Transmissive samples

Transmittance: di:0°, de:0° (diffuse illumination: 0° viewing); Conforms to ISO、 CIE、 ASTM 、 DIN.



Liquid, Powder, Solid samples



Measuring Aperture

Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm.

OPTIONAL ACCESSORIES

The instrument is equipped with a variety of optional accessories: micro printer, transmission test fixture assembly, instrument inversion test fixture, petri dish; Meet customer multi-sample measurement.



Microprinter



Instrument upside down test fixture



Transmission test fixture assembly



Petri dish

TECHNICAL SPECIFICATIONS

Model: YS6003

Optical Geometry: Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle);SCI (specular component included)/SCE (specular component excluded) ; Include UV / excluded UV light source;Transmittance: di:0°, de:0° (diffuse illumination: 0° viewing); SCI (specular component included)/SCE (specular component excluded) ;Haze(ASTM D1003);Conforms to CIE No.15, GB/T 3978,GB 2893,GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7

Application: It is used for accurate analysis and transmission of laboratory color. Apply in paints, inks, textiles, garments, printing and dyeing, printing etc industries for color transfer and quality control.

Integrating Sphere Size: Φ 154mm

Light Source: 360 nm to 780 nm, Combined LED Light (5 million life span)

Spectrophotometric Mode: Concave Grating

Sensor: 256 Image Element Double Array CMOS Image Sensor

Wavelength Range: 360-780nm

Wavelength Interval: 10nm

Semiband Width: 5nm

Measured Reflectance Range: 0-200%

Measuring Aperture: Reflective : Φ 30mm/ Φ 25.4mm, Φ 10mm/ Φ 8mm, Φ 6mm/ Φ 4mm;Transmissive : Φ 30mm/ Φ 25mm; Remark:
1. Automatic identification of switch caliber 2. Customized Configuration caliber and lens position
Specular Component:Reflectance: SCI&SCE / Transmittance: SCI&SCE

Color Space: CIE LAB,XYZ,Yxy,LCh,CIE LUV,Musell,s-RGB,HunterLab, β xy,DIN Lab99

Color Difference Formula: $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \text{DIN}\Delta E99, \Delta E(\text{Hunter})$

Other Colorimetric Index: WI (ASTM E313, CIE/ISO, AATCC, Hunter),YI (ASTM D1925, ASTM 313), MI (Metamerism Index),Staining Fastness, Color Fastness, Color Strength, Opacity,8° Glossiness,Gardner Index, APHA/Hazen/Pt-Co Index, 555 Index, Haze(ASTM D1003) , Saybolt

Observer Angle: 2°/10°

Illuminant: D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30

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

Measuring Time: About 2.4s (Measure SCI & SCE about 5s)

Repeatability: Spectral reflectance: Φ 25.4mm/SCI, Standard deviation within 0.06% (400 nm to 700 nm: within 0.05%);Chromaticity value: Φ 25.4mm/SCI, Standard deviation within ΔE^*ab 0.01 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration); Spectral Transmittance: Φ 25.4mm/SCI, Standard deviation within 0.06% (400 nm to 700 nm: within 0.06%); Chromaticity value: Φ 25.4mm/SCI, Standard deviation within ΔE^*ab 0.015 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration).

Inter-instrument Error: Φ 25.4mm/SCI, Within ΔE^*ab 0.15 (Average for 12 BCRA Series II color tiles)

Dimension: L*W*H=370x300x200mm

Weight: Approx. 9.6kg

Power: AC 24V, 3A Power adapter power supply

Illuminant Life Span: 5 years, more than 3 million times measurements

Display: 7-inch TFT color LCD, Capacitive Touch Screen

Network calibration: Supports Netmetric

Data Port: USB & Print serial port

Data Storage: Standard 1000 Pcs, Sample 20000 Pcs

Language: Simplified Chinese, Traditional Chinese, English,

Standard Accessory: Power Adapter, User Guide, CD Disk(PC Software), USB cable, Standard Calibration Board, Black Calibration Cavity, Transmission black baffle, Sample holder, 25.4 caliber, 8 caliber, 4 caliber

Optional Accessory: Micro-printer, Transmissive Test Component, Culture dish
Instrument inversion components

Notes: The specifications are subject to change without notice. YS6003 quality management software can only be used for data management

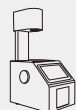
GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

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