



Achieve accurate measurement of haze, transmittance, chroma, etc



YS6002-BENCHTOP SPECTROPHOTOMETER

YS6002 Table spectrometer colorimeter is a domestic colorimeter independently developed by the company with independent intellectual property rights. The instrument meets the transmission D/0 (diffuse lighting, 0° direction reception) geometric optical structure stipulated by CIE 15 (it can also achieve approximate transmission 0/0 (parallel light lighting /0 degree reception) geometric optical structure). The lighting source of the instrument is 360~780nm composite full-spectrum LED light source (D65), and the spectral acquisition at an interval of 10nm is achieved by precision concave grating and 256-pixel CMOS detector. Achieve accurate testing of various optical indicators (fog, transmittance, chroma, chromatic difference, yellowness, whiteness, cobalt–platinum index, Gardner index, etc.) according to industry standards. It is widely used in glass processing, plastic processing, film manufacturing, display processing and packaging industry, liquid and pharmaceutical analysis, laboratory and other industries.



7 inches TFT Capacitive Touch-screen



Store approximately 20000 test data



Wavelength range
360nm – 780nm



Built-in camera
locating



ISO 9001
Certified

CE

SCM

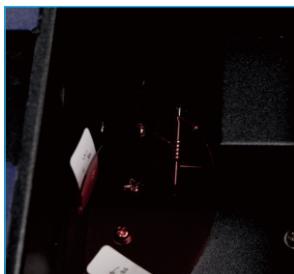
PRODUCT FEATURES

- 1.High configuration for the hardware: 7 inch capacitive touch screen; 25000 data storage ; with USD / Bluetooth data port.
- 2.With high optical configuration and resolution, 154mm integrating sphere, concave grating, 256 Image Element CMOS Sensor, dual light path;
- 3.Adopt 360~780nm composite full spectrum LED light source (which is closed to the spectrum of D65), which is low power consumption and long life time.
- 4.Easy realize the precision measurement for 3 kinds of light sources A,C and D65 for haze (ASTM D1003/1044), transmittance, Pt-Co Index and Gardner index.
- 5.Multiple measurement modes : quality control mode and sample mode to meet more customers' requirement;
- 6.Independent light source detector and built-in temperature sensor will continuously monitor the change of light sources and environment to ensure the measurement more reliable.
- 7.Observer angle 2/10, multiple light sources, multiple color spaces, multiple chromaticity to meet different kinds of customers' testing requirements.
8. More powerful extended functions at the PC software.
- 10.Instrument with optional accessory - micro printer; Easy to carry, without computer can be continuously printed out the measurement of various parameters, easy to save.



Microprinter

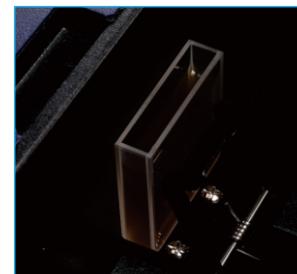
FEATURES



Lens measurement



Transparent sample



Liquid sample

Higher measurement accuracy: measurement stability and accuracy: $\Delta E^* ab < 0.03$

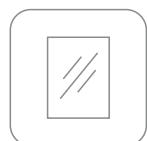
Professional guarantee: transmission $\Phi 25.4\text{mm}$, measuring concave or surface samples is more simple.

Large capacity: multiple color spaces, multiple color indexes, and wider applicability.

Dual locating: illuminating positioning, cross positioning.

APPLICATION INDUSTRY

It is widely used in glass processing, plastic processing, film manufacturing, display processing and packaging industry, liquid medicine analysis, laboratory and other industries.



Glass processing



Plastic processing



Film manufacturing



Liquid analysis



Laboratory

TECHNICAL SPECIFICATIONS

Model:YS6002

Optical Geometry:Transmittance:d/0 (diffused illumination, 0-degree viewing angle);
similar to CIE15 standard 0/0(parallel illumination, 0-degree viewing angle);

Confirms to the standard of ASTM D1003/1044, CIE No.15, GB/T 3978, GB2893, GB/T 18833, ASTM E308, DIN5033 Teil7

Application:wildly used in the field of glass processing, plastic processing, film manufacturing, display screen processing and packaging industry, liquidpharmaceutical analysis, laboratory etc.

Integrating Sphere Size:Φ154mm

Light Source:360~780nm Combined LED Lamp

Spectral Separation Device:Concave-Grating

Detector:256 Image Element Double Array CMOS Image Sensor

Wavelength Range:360~780nm

Wavelength Pitch:10nm

Half Bandwidth:10nm

Reflectance Range:0~200%

Measurement Aperture:Transmittance: Φ25.4mm

Color Spaces:CIE LAB,XYZ,Yxy,LCh,CIE LUV,Musell,s-RGB,HunterLab,βxy,DIN Lab99

Color Difference Formulas:ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter)

Other Colorimetric Data: D1925,ASTM E313),TI(ASTM E313,CIE/ISO),Metamerism Index Mt,Staining Fastness,Colorfastness to Crocking,Absorbance,APHA/Hazen/Pt-Co(Platinum-Cobalt Index),Gardner Index,Saybolt Index,ASTM D1500 Color Scale,Pharmacopoeia(Chinese,European,United States),EBC(European Brewery Convention)Color,ICUMSA Color(International Commission for Uniform Methods of Sugar Analysis Color).

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

Display Data:Spectral/Values, Chromaticity Values, Color Difference Values/Graph,ColorDiagram, Color Simulation, Pass/ Fall Result, Color Offset

Measurement Time:About 1.5s

Repeatability:Spectral transmittance: for test transmission reference white within ΔE*ab0.05% (400~700nm: within 0.04%);

Chromaticity Data: Φ25.4mm,within ΔE*ab 0.03 (after do warm-up and calibration, it is the average value to measure transmission reference whiteplate for 30 times at 5 second intervals)

Inter-instrument Agreement:Φ25.4mm,within ΔE*ab 0.15 (average value for 5 pcs standard transmittance color plates measurement)

Size:370X300X200mm(L*W*H)

Weight:About 9.6kg

Power:DC 24V,3A Power Adapter

Illuminant Life Span:5 years, more than 3,000,000 times measurement

Screen:7-inch TFT Capacity Touch Screen Display

Interface:USB,Printing Port

Storage:Standard:5000; Sample:20000

Language: Simplified Chinese,Traditional Chinese,English,Russian,Italian

Working Temperature:0~40°C(32~104°F)

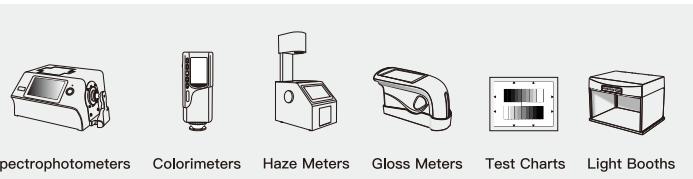
Storage Temperature:-20~50°C(-4~122°F)

Standard Accessory:Power Adapter, User Manual, QC software(please download from website),USB cable, reflectance white and black board, transmittance black board,25.4mm aperture, transmissive test component

Optional Accessory:Miniature- printer

Note:The specifications are subject to change without notice

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