



YS6002-Benchtop color haze meter

YS6002 is independently developed by 3nh, who has complete intellectual property rights. 7 inch TFT true color capacitive touch screen and full light source make it easy to achieve the accurate measurement of C / A / D65 light source haze (ASTM d1003 / 1044), transmittance, cobalt platinum index and Gardner index.



7 inches TFT Capacitive Touch-screen



Store approximately 20000 test data



Wavelength range 360nm – 780nm



Built-in camera locating



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PRODUCT FEATURES

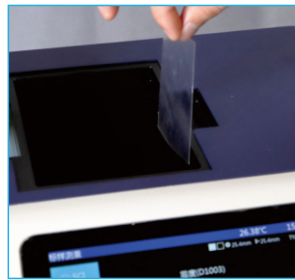
- 1.High configuration for the hardware: 7 inch capacitive touch screen; 25000 data storage ; with USD / Bluetooth data port.
- 2.With high optical configuration and resolution, 154mm integrating sphere, concave grating, 256 Image Element CMOS Sensor, dual light path;
- 3.Adopt 360~780nm composite full 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.
9. More powerful extended functions at the PC software.



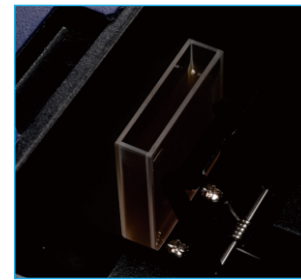
FEATURES



Lens measurement



Transparent sample



Liquid sample

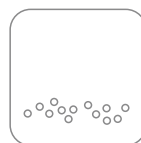
- Higher measurement accuracy:** measurement stability and accuracy: $\Delta E^* ab < 0.03$
- Professional guarantee:** transmission $\Phi 25.4\text{mm}$, measuring concave or surface samples is more simple.
- Large capacity:** multiple color spaces, multiple color indexes, and wider applicability.
- 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.
Intergrating 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: Haze (ASTM D1003/1044), transmittance rate T, WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925, ASTM 313),TI(ASTM E313, CIE/ISO),Mt(Matamerism Index), Color Strength, Staining fastness,Color Strength, Opacity,Pt-Co index and Gardner index
Observer Angle: 2°/10°
Illuminant: D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12
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
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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