

# Accurate measurement of haze, transmittance and cobalt platinum index



# 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 handware: 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.



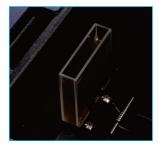
## **FEATURES**



Lens measurement



Transparent sample



Liquid sample

Higher measurement accuracy: measurement stability and accuracy:  $\triangle E^*$  ab<0.03 Professional guarantee: transmission  $\Phi 25.4$ 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:  $\Delta E^*$  ab,  $\Delta E^*$  uv,  $\Delta E^*$  94,  $\Delta E^*$  cmc(2:1),  $\Delta E^*$  cmc(1:1),  $\Delta E^*$  00, DIN $\Delta E$  99,  $\Delta E$  (Hunter)

Other Colorimetric Data: Haze (ASTM D1003/1044), transmittance rate T, WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM

 $313), TI(ASTM\ E313, CIE/ISO), Mt(Matamerism\ Index\ ), Color\ Strength,\ Staining\ fastness, Color\ Strength,\ Staining\ fastness,\ Color\ Strength,\ Color\ Stren$ 

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, Color Diagram, Color Simulation, Pass/ Fall Result,

Color Offset

Measurement Time: About 1.5s

**Repeatability:** Spectral transmittance: for test transmission reference white within  $\Delta E^*$  ab 0.05% (400~700nm: within 0.04%);

Chromaticity Data:  $\Phi$ 25.4mm,within  $\Delta$ E\*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:  $\Phi$ 25.4mm, within  $\Delta$ E\*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