

CHOOSE A PROFESSIONAL METER

# HAZE METER



## Haze/transmittance Measurement

- ⊙ In line with international standards
- ⊙ Built-in  $\Phi 154\text{mm}$  large integrating sphere
- ⊙ 18 light sources, 6 color spaces
- ⊙ Support haze, light transmittance, yellowness, whiteness, etc. measurement
- ⊙ Support spectrum graph, color difference value/graph, chromaticity graph display



Dual Array Silicon  
Photonics Diode sensor



Spectral display



Concave Grating



7in color touch screen



## Product description

YH1600 haze meter can easily achieve ASTM D1003 non-compensation method, full light transmittance, haze test. Open sample bin can be vertically and horizontally tested to accommodate more samples to be tested. The YH1600 haze meter uses a PDF array detector to meet the CIE  $V(\lambda)$  2 degree visual response. The compensation method can be used to measure the light transmittance and haze with high precision and repeatability.



Glass business



Plastic business



Film



Liquid analysis



Laboratory



### PC Software

Use the host computer software to connect the haze meter to the computer for density/transmittance monitoring and data management. It is convenient to compare, analyze, and print test reports, provide multiple color space measurement data, and customize customer management.

Beautiful and practical appearance

### Full spectrum LED light source

The top graph shows a 'Balanced' spectrum with a relatively uniform distribution of light across the visible range (350-800 nm). The bottom graph shows a 'Lost' spectrum with a significant dip in the 500-600 nm range, indicating an unbalanced light source.

Comply with ISO&ASTM standards

## Advantages of haze meter

1 Using full-band balanced LED light source

4 Comply with ISO&ASTM standards

2 Silicon photodiode dual array sensor

5 Independent core technology property rights

3 Beautiful and practical appearance

6 PC management software

**Model:** YH1600

**Optical Geometry:** Transmission: 0/D (parallel light illumination, diffuse reflection reception)

**Standards compliant:** ASTM D1003/1044,ISO 13468,ISO 14782,GB/T 2410,JJF 1303-2011,  
CIE 15.2,GB/T 3978,ASTM E308,JIS K7105,JIS K7361,JIS K7136

**Integrating Sphere Size:**  $\Phi$  154mm

**Illuminant:** LED lighting

**Spectrophotometric Mode:** Concave Grating

**Sensor:** 256 Image Element Double Array CMOS Image Senso

**Wavelength Range:** 400-700nm (wavelength can be customized)

**Wavelength Pitch:** 10nm

**Semiband Width:** 10nm

**Transmittance range:** 0-100%

**Measuring Aperture:**  $\Phi$ 20mm/ $\Phi$ 15mm/ $\Phi$ 8mm/ $\Phi$ 4mm(Choose one)

**Sample size:** The thickness is less than 105mm

**Color Space:** CIE LAB,XYZ,Yxy,LCh,s-RGB, $\beta$ xy

**Color Difference Formula:**  $\Delta E^*ab, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$

**Other Colorimetric Data:** Haze(ASTM D1003/1044,ISO 13468), Transmittance T(ISO), Transmittance T(ASTM),WI(ASTM E313,CIE/ISO,AATCC,Hunter),  
YI(ASTM D1925,ASTM 313),Absorbance, Pt-Co index, Gardner index

**Observer Angle:** 2° & 10°

**Illuminants:** D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30

**Displayed Data:** Spectral graph, sample chromaticity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result

**Measuring Time:** about 1.5s

**Precision:** 0.01

**Repeatability:**  $\Phi$ 20mm Caliber,< 0.08

(After the instrument is warmed up and corrected, the standard deviation value of the standard haze sheet with a haze of about 40 is tested at an interval of 5s)

**Inter-instrument Error:**  $\Phi$ 20mm Caliber,< 0.04

(After the instrument is warmed up and corrected, test the standard deviation of the haze standard haze sheet and the reference value at an interval of 5s)

**Size:** Length X Width X Height=290x211x511mm

**Weight:** About 7.6 kg

**Power Supply:** DC 24V, 3A Power Adapter

**Light Source Device Life:** 5 years, more than 3 million times measurements.

**Display:** 7" TFT Capacitive Screen-touch Display

**Data Port:** USB & Print serial port & Bluetooth

**Data Storage:** Standard 5000 Pcs, Sample 20000 Pcs

**Language:** Simplified Chinese, Traditional Chinese, English

**Working Environment:** Temperature: 0~40°C; Humidity: 0~85% (No Condensation)

**Storage Environment:** Temperature: -20~50°C; Humidity: 0~85% (No Condensation)

**Standard Accessory:** Power adapter, manual, quality management software (download from official website), data cable, 0% calibration box, measuring caliber

**Optional Accessory:** Micro printer, test fixture, standard haze film, foot switch

**Notes:** The specifications are subject to change without notice.