



3nh Global

DESKTOP HAZE METER

Profession Haze/transmittance measurement



- ⊙ In line with international standards
- ⊙ Built-in $\Phi 154\text{mm}$ integrating sphere
- ⊙ Multiple light sources
- ⊙ Support haze and transmittance measurement



Product description

YH1810 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 YH1810 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



Vertical haze measurement



Standard measurement

Advantages of haze meter

1

ISO&ASTM

Meet a variety of test requirements, Standards compliant: ASTM D1003/1044, ISO 14782, GB/T 2410, JJF 1303-2011, CIE 15.2, JIS K7105, JIS K7361, JIS K 7136

2

Simple operation and quick measurement

The YH1810 haze meter is equipped with a large-size touch screen for easy operation. With a PD array detector, CIE $V(\lambda)$ 2 degree visual response enables high precision and repeatable transmittance and fog measurements. USB data output device for docking with laboratory system.

3

Dynamic measurement

Independent light source detector and temperature sensor, constantly monitor light source and environmental change, ensure the reliability of test data.

4

Support a variety of samples

Independent light source detector and temperature sensor, constantly monitor light source and environmental change, ensure the reliability of test data.

5

Support a variety of samples

It provides powerful software for measuring and analyzing fog and light transmittance, which is suitable for quality monitoring and tabulated management of fog and light transmittance data in various industries. The management of users will be digitized at the PC end, the difference of fog and light transmittance will be compared, and the test report form will be generated to facilitate customer customization and management.

PC Software

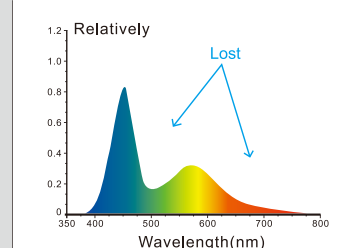
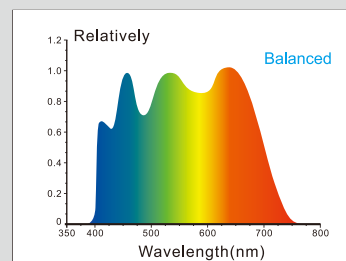
Use the host computer software to connect the haze meter to the computer for density/transmittance monitoring and data management. It is convenient to compare, analyze, and print test reports, provide multiple color space measurement data, and customize customer management.

Compensation port



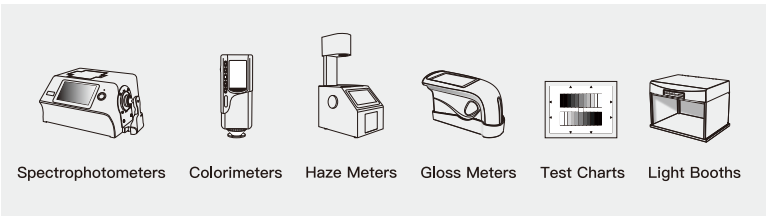
Multiple test light sources
Meet different measurement needs

Full spectrum LED light source



Model:	YH1810
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:	Φ 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:	Φ20mm/Φ15mm/Φ8mm/Φ4mm(Choose one)
Sample size:	The thickness is less than 105mm
Color Space:	CIE LAB,XYZ,Yxy,LCh,s-RGB,βxy ,CIE LUV,Musell,HunterLab
Color Difference Formula:	ΔE*ab,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00,ΔE*uv,ΔE*CH
Other Colorimetric Data:	Haze (ASTM D1003/1044, ISO 13468), Light Transmittance T (ISO), Light Transmittance T (ASTM), Clarity WI (ASTM E313, CIE/ISO, AATCC, Hunter, Taube, Berger, Stensby), Yellowness Index YI (ASTM D1925, ASTM E313), Absorbance, Cobalt-Platinum Index, Gardner Index, CMYK, Tint (ASTM E313-00), Metamerism Index Mt.
Observer Angle:	2° & 10°
Illuminants:	D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12 , CWF,DLF,TL83,TL84,TPL5,U30 ,NBF
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:	Φ20mm Caliber,< 0.05 (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:	Φ20mm Caliber,< 0.4 (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=487x260x298mm
Weight:	About 8.0 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 30000 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.

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