

7-inch large touch screen



Double standard ISO & ASTM



Horizontal or vertical measurement



Quality management software



YH1600

HAZE METER

Easily realize ASTM D1003 non-compensation method, ISO 13468 compensation method, full transmittance and fog test.

INTRODUCTION

YH1600 Haze Meter can easily realize ASTM D1003 non-compensation method, ISO 13468 compensation method, full transmittance and fog test. Through precise concave grating and 256-pixel CMOS detector, the transmittance curve of transmitted sample can be accurately collected, various chroma data of transmitted sample can be accurately output, and high-precision and repeatable transmittance, fog and chroma data measurement can be realized.

YH1600

APPLICATION INDUSTRY



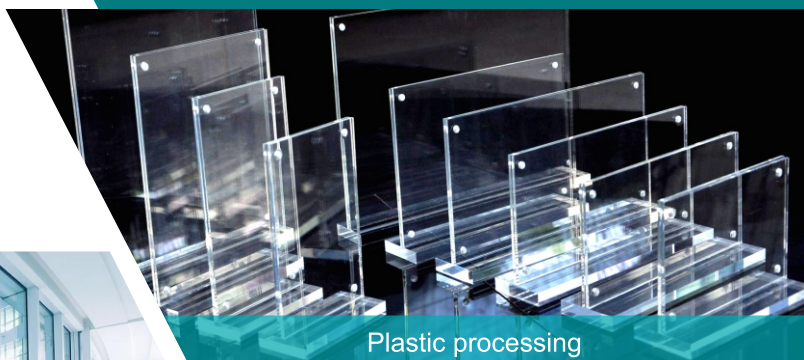
3nh.com

YH1600 Haze Meter is widely used in glass processing, plastic processing, film, display screen processing, packaging industry, liquid analysis and other aspects.



Plastic processing

Glass processing



Plastic processing



Laboratory



Film processing



Liquid analysis

TECHNICAL ADVANTAGE

1. Double standard ISO & ASTM

Can meet the test standard requirements of different users; meet the standards: 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 K 7136

2. Multiple observation light sources

The YH1600 colorimeter provides CIE LAB, XYZ, Yxy, LCh, s-RGB, β xy color space, as well as D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11 and F12 observation light sources, which can meet the special measurement needs under different measurement conditions.

3. Easy to operate, faster and more accurate measurement

The YH1600 Haze Meter is equipped with a large-size touch control screen, which is easy and convenient to operate. The 256 pixel dual array CMOS image sensor can realize high accuracy and repeatable transmittance and haze measurement. USB data output unit that interfaces with the laboratory system.

4. Compensation port to make the measurement data more accurate

Meet ASTM D1003 uncompensated method, ISO 13468 compensated method, full transmittance, haze test, provide more accurate test results

5. Dynamic measurement

Independent light source detector and temperature sensor to monitor the light source and environmental changes at all times to ensure reliable test data

6. Convenient measurement and wide sample adaptation

Open measurement area for vertical and horizontal testing to accommodate more samples under test

7. Quality management software

It provides powerful software for measuring and analyzing fog, color and light transmittance, which is suitable for quality monitoring and tabulating management of fog, light transmittance and color data in various industries. Data the management of users on the PC computer, compare the fog, transmittance and color differences, generate test report forms, facilitate customer customization and management.

SPECIFICATION PARAMETER

YH1600 Haze Meter

Product model: YH1600 Haze Meter

Illumination mode: Transmittance: 0/D (parallel illumination, diffuse receiving) in accordance with standards: ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JF 1303-2011, CIE 15.2, GB/T 3978, ASTM E308, JIS K7105, JIS K7361, JIS K 7136

Characteristic: The instrument can easily realize ASTM D1003 uncompensated method, ISO 13468 compensation method, full transmittance, fog test. The instrument can accurately collect the transmittance curve of the transmitted sample, and can accurately output various chroma data of the transmitted sample. High hardware configuration, open measurement area, vertical, horizontal testing. It is widely used in glass processing, plastic processing, film, display screen processing, packaging industry, liquid analysis and other aspects.

Integrating sphere size: Φ 154 mm

Illumination source: 400 ~ 700 nm combined LED light source (wavelength scalable customized)

Light splitting mode: Concave grating

Inductor: 256 pixel dual array CMOS image sensor

Measuring wavelength range: 400 ~ 700 nm (wavelength scalable customization)

Wavelength interval: 10 nm

Half bandwidth: 10 nm

Determination range of transmittance: 0-100%

Measuring aperture: Φ 20 mm/ Φ 15 mm/ Φ 8 mm/ Φ 4 mm (select single aperture)

Sample size: Thickness less than 170 mm

Color space: CIE LAB, XYZ, Yxy, LCh, s-RGB, β xy

Chromatic formula: ΔE_{ab} , ΔE_{94} , ΔE_{cmc} (2:1), ΔE_{cmc} (1:1), ΔE_{00}

Other chromaticity indicators: 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, Cobalt Platinum Index, Gardner Index

Observer angle: 2°/10°

Observation light source: D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12

Display: Spectrogram, sample chroma value, color difference/graph, color graph, color simulation, pass/fail result

Measurement time: About 1.5s

Resolution of fog: 0.01 unit

Repeatability of nebulization: Φ 20 mm aperture, less than 0.08 (after instrument preheating and correction, test the standard nebulizer with the nebulization of about 40 at an interval of 5s for 30 times of standard deviation)

Inter-stage difference: Φ 20 mm aperture, less than 0.4 (after instrument preheating and correction, test the standard deviation between the standard nebulizer of nebulization and the reference value at an interval of 5s)

Dimensions: Length X Width X Height = 290X211X511 mm

Weight: Approx 7.6 kg

Power supply mode: 24 V DC, supplied by 3A power adapter

Illumination light source lifetime: > 3 million measurements in 5 years

Display screen: TFT True Color 7 inch, Capacitive Touchscreen

Interface: USB, Print Serial, Bluetooth

Stored Data: 5,000 samples, 20,000 samples

Language: Simplified Chinese, Traditional Chinese, English

Operating Temperature Range: 0 to 40 °C (32 to 104 °F)

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

Standard Annex: Power adapter, instruction for use, quality management software (download), data cable, 0% calibration box, measuring caliber

Optional Accessories: Microprinter, Test Fixture, Standard Fog Disk, Footswitch

Notes: Subject to change without notice



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