

Color Haze Meter



THC-100

- Compatible with ASTM and ISO standards, meeting multiple testing needs, supporting ISO standards without compensation
- Can measure multiple parameters such as haze and transmittance of transparent and translucent materials such as plastics, and can display transmittance spectrum curve
- 7-inch IPS smart screen, no button operation required, excellent human-computer interaction, easy operation
- Displays 400-700nm band transmittance to help evaluate the optical properties of materials
- Good repeatability, haze, transmittance, and color difference repeatability are ≤ 0.03 , performance comparable to imported
- Adopts 21mm and 7mm dual-caliber design, suitable for materials of different sizes
- Open measurement area, with vertical and horizontal measurement states, horizontal placement can be equipped with positioning bracket
- Standard PC software, USB connection for online measurement, support data export and report printing
- Haze and color difference measurements can be tested by the National Institute of Metrology

Technical Data

Model	THC-100
Optical path structure	D/0
Wavelength range	400-700nm
Wavelength interval	10nm
Measurement aperture	21mm,7mm
Measurement conditions	light source: CIE-A,CIE-C,CIE-D65,A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CMF,U30,DLF,NBF,TL83,TL84; Observer's perspective: 2°, 10°
Measurement time	Transmittance/haze: about 3s, other chromaticity indicators: 0.6s
Measurement parameters	Haze (HAZE), total transmittance (T), spectral transmittance, CIE Lab, LCh, CIE Luv, XYZ, Yxy, Hunter Lab, MunsellMI, CMYK, whiteness WI (ASTM E313-00, ASTM E313-73, CIE/ISO, Hunter, Taube Berger Stensby), yellowness YI (ASTM D1925, ASTM E313-00, ASTM E313-73), Tint (ASTM E313-00), metamerism index Milm, APHA, Pt-Co (platinum cobalt index), Gardner (Gardner index), color difference (ΔE^*ab , ΔE^*CH , ΔE^*uv , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*94 , ΔE^*00)
Transmittance resolution	0.01%
Transmittance accuracy	Better than $\pm 1\%$
Transmittance repeatability	≤ 0.03 (without preheating, the standard deviation of 30 times of measuring the standard haze sheet with a haze of about 30 at an interval of 3s)
Haze resolution	0.01%
Haze accuracy	Better than $\pm 1\%$
Haze repeatability	≤ 0.03 (without preheating, the standard deviation of 30 times of measuring the standard haze sheet with a haze of about 30 at an interval of 3s)
Color difference repeatability	Standard deviation ΔE^*ab , within 0.03 (measurement conditions: no preheating correction required, average value of 30 measurements of white glass at 3s intervals)
Pt/Co colorimetric resolution	0.01
Pt/Co colorimetric range	0-500
Pt/Co colorimetric accuracy	$\leq \pm(5\%H+1)$, H is the standard value
Power supply	DC12V/3A
Display	7-inch touch screen, Android system
System language	14 languages
Data interface	USB(Type-B)
Operating temperature range	5~40℃, relative humidity 80% or lower (at 35℃), no condensation
Storage temperature range	-20℃~45℃, relative humidity 80% or lower (at 35℃), no condensation
Instrument dimensions	Length*width*height: 310mm*215mm*540mm
Instrument weight	5300g