



## HAZE METER BMET-1201

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## BENCHTOP HAZEMETER

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



### Double standard ISO & ASTM:

Able to meet the test standard requirements of different users, in accordance with ASTM D1003/1044, GB/T 2410, JF 13032011, CIE 15.2, JIS K7105, JIS K7361, JIS K7136

### Easy to operate, faster and more accurate measurement:

Haze meter is equipped with a large size touch screen for easy operation. With a PD array detector, CIE V(λ)2 degree visual response enables high precision and repeatable transmittance and haze measurements. USB data output device for docking with laboratory systems.

### Dynamic measurement:

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

## SPECIFICATIONS

Model	BMET-1201
Optical Geometry	Transmission O/D, Parallel light illumination, diffuse reflection reception
Standards compliant	ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JF 13032011, CIE 15.2, GB/T 3978, ASTM E308, JIS K7105, JIS K7361, JIS K7136
Integrating Sphere Size	Φ154 mm
Illuminant (lamp)	400-700 nm Combined LED Lamp (wavelength can be customized)
Spectral mode	Concave Grating
Sensor	256 image element double array CMOS image sensor
Measurement Wavelength Range	400-700 nm (customizable)
Wavelength Pitch	10 nm
SemiBandwidth	10 nm
Measuring range of transmittance	0-100%
Measuring Aperture	Φ20 mm / Φ15 mm / Φ8 mm / Φ4 mm (select a single diameter)
Sample Thickness	Less than 170 mm
Color Space	CIE LAB, XYZ, Yxy, LCh, sRGB, βxy
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, Cobalt platinum index, Gardner index
Observer	2°/10°
Illuminant (conditions)	D65, A, C, D50, D55, D75, F1-F12, CWF, DL, TL83, TL84, TPL5, U30
Displayed Data	Spectral graph, sample chromaticity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result
Measurement Time	about 1.5 s
Measurement Accuracy	0.01
Repeatability	Φ20 mm caliber: < 0.08 (after warmup and correction, SD of haze standard sheet =30 tested at 5 s intervals)
Interinstrument agreement	Φ20 mm caliber: < 0.4 (after warmup and correction, SD of haze standard film vs reference at 5 s intervals)

Size	290 (L) x 211 (W) x 511 (H) mm
Weight	About 7.6 kg
Power / Battery Performance	DC 24 V, 3 A power adapter
Lamp Life	5 years, >3,000,000 measurements
Display	7inch TFT capacitive touch screen
Interface	USB, Printing Port, Bluetooth
Data Storage	Standard: 5,000; Sample: 20,000
Language	Chinese, Traditional Chinese, English
Operating Environment	0-40 °C (32-104 °F)
Storage Environment	20-50 °C (4-122 °F)
Standard Accessories	Power adapter, manual, quality management software (download from official website), data cable, 0% calibration box, measuring caliber
Optional Accessories	Mini printer, test fixture, standard haze film, foot switch
Alt Name	Benchtop HazeMeter



## FEATURES

Double standard ISO & ASTM:

Able to meet the test standard requirements of different users, in accordance with ASTM D1003/1044, GB/T 2410, JIS K 7136, JIS K 7105, JIS K 7361, JIS K 7136

Easy to operate, faster and more accurate measurement:

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 haze measurements. USB data output device for docking with laboratory systems.

Dynamic measurement:

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

Easy to measure and widely applicable to samples:

Open measuring area, vertical and horizontal testing, suitable for more samples to be tested.

Quality control software:

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

## APPLICATIONS

The color haze meter is widely used in glass processing, plastic processing, film, display processing, packaging industry, liquid chemical analysis, etc.



Protective Film



Glass



Liquid



Film



Transparent Plastic



Laboratory



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