



HAZE METER

HAZE METER BJH1M1 TO BJH1M5

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 PD 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.



Haze Meter BJH1M1

Double standard ISO & ASTM:

Able to meet the test standard requirements of different users, in accordance with ASTM D1003/1044, GB/T 2410, JJF 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 $V(\lambda)$ 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 lig

SPECIFICATIONS

Model	BJH1M1	BJH1M2
Old Model	BMET-1201	BMET-1202
Optical Geometry	Transmission O/D, Parallel light illumination, diffuse reflection reception	
Standards compliant	ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JJF 13032011, CIE 15.2, GB/T 3978, ASTM E308, JIS K7105, JIS K7361, JIS K7136	ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JJF 13032011, CIE 15.2, JIS K7105, JIS K7361, JIS K7136
Integrating Sphere Size	Φ154 mm	
Illuminant (lamp)	400-700 nm Combined LED Lamp (wavelength can be customized)	400-700 nm Combined LED Lamp
Spectral mode	Concave Grating	/
Sensor	256 image element double array CMOS image sensor	PD array detector, meeting CIE $V(\lambda)$ 2° visual response
Measurement Wavelength Range	400-700 nm (customizable)	/
Wavelength Pitch	10 nm	/
Semi Bandwidth	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	ΔE^*ab , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*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	Haze (ASTM D1003/1044, ISO 13468), transmittance T(ISO), transmittance T(ASTM)
Observer	2°/10°	2°
Illuminant (conditions)	D65, A, C, D50, D55, D75, F1-F12, CWF, DL, TL83, TL84, TPL5, U30	D65, A, C
Displayed Data	Spectral graph, sample chromaticity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result	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	USB, Printing Port
Data Storage	Standard: 5,000; Sample: 20,000	Standard: 1,000; 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	

Model	BJH1M3	BJH1M4	BJH1M5
Old Model	BMET-1203	BMET-1204	BMET-1205
Features	Double caliber, with compensation port	Photoelectric integration, no compensation port	
Optical Geometry	Transmission O/D, Parallel light illumination, diffuse reflection reception		
Standards compliant	ASTM D1003/1044, ISO 14782, GB/T 2410, JJF 13032011, CIE 15.2, JIS K7105, JIS K7361, JIS K7136		ASTM D1003/1044, GB/T 2410, JJF 13032011, CIE 15.2, JIS K7105, JIS K7361, JIS K7136
Integrating Sphere Size	Φ154 mm		
Illuminant (lamp)	400-700 nm Combined LED Lamp		
Spectral mode	/		
Sensor	PD array detector, meeting CIE V(λ) 2° visual response		
Measurement Wavelength Range	/		
Wavelength Pitch	/		
SemiBandwidth	/		
Measuring range of transmittance	0-100%		
Measuring Aperture	Φ20 mm / Φ8 mm (Double caliber)	Φ20 mm / Φ15 mm / Φ8 mm / Φ4 mm (select a single diameter)	
Sample Thickness	Less than 170 mm		
Color Space	/		
Color Difference Formula	/		
Other Colorimetric Data	Haze (ASTM D1003/1044, ISO 13468), Transmittance T(ASTM)		Haze (ASTM D1003/1044), Transmittance T(ASTM)
Observer	2°		
Illuminant (conditions)	D65, A, C		
Displayed Data	Pass/Fail result		
Measurement Time	about 1.5 s		
Measurement Accuracy	0.01		0.1

Repeatability	Φ20 mm 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 30 is tested at an interval of 5s)	Φ20 mm 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 30 is tested at an interval of 5s)	Φ20 mm caliber, 0.1 (after the instrument is warmed up and corrected, the standard deviation value of the standard haze sheet with a haze of about 30 is tested at an interval of 5s)
Interinstrument agreement	Φ20 mm caliber, < 0.4 (after warmup/correction; SD of haze sheet ~30 tested at 5 s intervals)		
Size (LxWxH)	290 x 211 x 511 mm		
Weight	About 7.6 kg		
Power / Battery	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		
Data Storage	Standard: 1,000; Sample: 20,000		Standard: 1,000; Sample: 10,000
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	Power adapter, manual, quality management software (download), data cable, 0% calibration box, measuring caliber	
Optional Accessories	Mini printer, test fixture, standard haze film, foot switch		
Alt Name	Benchtop HazeMeter		



BJH1M1 BJH1M2



BJH1M1 BJH1M2



BJH1M1 BJH1M2



BJH1M1 BJH1M2



BJH1M3 BJH1M4 BJH1M5



BJH1M3 BJH1M4 BJH1M5

FEATURES BJH1M1 BJH1M2

Double standard ISO & ASTM:

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

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.

FEATURES BJH1M3 BJH1M4 BJH1M5

Double standard ISO & ASTM:

Able to meet the test standard requirements of different users, in accordance with ASTM D1003/1044, GB/T 2410, JJF 1303.2011, CIE 15.2, JIS K7105, JIS K7361, 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.

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Compensation port:

The instrument can easily implement ASTM D1003 noncompensation method, ISO 13468 compensation method, total transmittance and haze test.



Multiple measurement methods:

The hardware configuration is high, the measurement area is open, and the vertical and horizontal tests can be performed.



Auxiliary measuring tool:
Foot switch can help you make measurements easier and faster

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

HAZE METER BJH1L1 BJH1L2 BJH1L3

BENCHTOP COLOR HAZE METER

Color Haze Meter has full light transmittance, haze test, clarity test. With the precision concave grating and 256 pixel CMOS detector, it can accurately collect the transmittance curve of the transmitted sample, accurately output the various chromaticity data of the transmitted sample, and realize the high precision and repeatable measurement of the transmittance, haze and chromaticity data.



Multiple observation light sources:

The color haze meter provides CIE LAB, XYZ, Yxy, LCh, sRGB, β xy color space, as well as D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, DLF, TL83, TL84, TPL5, U30 observation light sources, which can meet the special measurement needs under different measurement conditions.

Easy operation and faster and more accurate measurement:

The color 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.

Compensation port to make the measurement data more accurate:

Meet the standard of ASTM D1003 noncompensation method, ISO 13468 compensation method

SPECIFICATIONS

Model	BJH1L1	BJH1L2	BJH1L3
Old Model	BMET-1206	BMET-1207	BMET-1208
Features	Spectroscopy, with compensation port		Photoelectric integration, with compensation port
Optical Geometry	Transmittance: 0/D (0° viewing angle, diffused illumination)		
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		ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JF 13032011, CIE 15.2, JIS K7105, JIS K7361, JIS K7136
Integrating Sphere Size	Φ154 mm		
Illuminant	400-700 nm Combined LED Lamp (Wavelength can be customized)		400-700 nm Combined LED Lamp
Spectral Mode	Concave-Grating		/
Sensor	256-image-element double array CMOS image sensor		PD array detector, meeting CIE V(λ) 2-degree visual response
Measurement Wavelength Range	400-700 nm (Wavelength can be customized)		/
Wavelength Pitch	10 nm		/
Semi-Bandwidth	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 105 mm		

Color Space	CIE LAB, XYZ, Yxy, LCh, s-RGB, βxy		/
Color Difference Formula	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00		/
Other Colorimetric Data	Haze (ASTM D1003/1044, ISO 13468), transmittance T(ISO), transmittance T(ASTM), clarity, WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), absorbance, cobalt-platinum index, Gardner index		Haze (ASTM D1003/1044, ISO 13468), transmittance T(ISO), transmittance T(ASTM)
Observer	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		D65, A, C
Displayed Data	Spectral graph; sample chromaticity value; color-difference value/graph; chromaticity graph; color simulation; pass/fail result		Pass/fail result
Measurement Time	About 1.5 s		
Measurement Accuracy	0.01		
Repeatability	Φ20 mm aperture: 0.05 (after warm-up and corrected; SD of a ~30 haze standard sheet tested at 5 s interval)		
Inter-Instrument Agreement	Φ20 mm aperture: < 0.4 (after warm-up and corrected; SD between haze standard film and reference value at 5 s interval)		
Size (LxWxH)	487 x 260 x 298 mm		
Weight	About 8 kg		
Battery / Power	DC 24 V, 3 A power adapter		
Lamp Life	5 years; >3,000,000 times measurements		
Display	7-inch TFT capacitive touch screen		
Interface	USB, Printing Port, Bluetooth		USB, Printing Port
Data Storage	Standard: 5,000; Sample: 30,000	Standard: 5,000; Sample: 20,000	Standard: 1,000; 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 Color Haze Meter		



FEATURES

Multiple observation light sources:

The color haze meter provides CIE LAB, XYZ, Yxy, LCh, sRGB, β_{xy} color space, as well as D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, DLF, TL83, TL84, TPL5, U30 observation light sources, which can meet the special measurement needs under different measurement conditions.

Easy operation and faster and more accurate measurement:

The color 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.

Compensation port to make the measurement data more accurate:

Meet the standard of ASTM D1003 noncompensation method, ISO 13468 compensation method, it can do full light transmittance, haze test, definition test, and provide more accurate test results

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

Convenient measurement and wide sample adaptation:

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

Quality management software:

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



Compensation port:

The instrument can easily implement ASTM D1003 noncompensation method, ISO 13468 compensation method, total transmittance, haze test, and clarity test.



Multiple measurement methods:

The hardware configuration is high, the measurement area is open, and the vertical and horizontal tests can be performed.



Auxiliary measuring tool:

A variety of measuring fixtures help you easily measure various samples.

APPLICATIONS

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



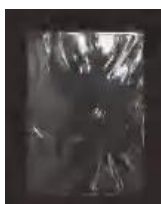
Protective Film



Glass



Liquid



Film



Transparent Plastic



Laboratory



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