

HAZE METER



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The amount of light that is diffused or scattered through the transparent material is measure by the Haze meter.

MET102-700C HAZE METER

Double standard ISO & ASTM

Easy to operate, faster and more accurate measurement

Dynamic measurement

With compensation port, so that the measurement data more accurate

Easy to measure and widely applicable to samples

Quality control software

Model	MET102-700C	
Optical Geometry	Transmittance: 0/D (parallel illumination, diffuse reflection receiving)	
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 K 7136	
Integrating Sphere Size	Φ154mm	
Illuminant	D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30	
Spectral mode	Concave Grating	
Sensor	256 Image Element Double Array CMOS Image Sensor	
Measurement Wavelength range	400 ~ 700 nm (wavelength can be customized)	
Wavelength Pitch	10 nm	
Semi-bandwidth	10 nm	
Measuring range of transmittance	0-100%	
Measurement Aperture	Φ20 mm/Φ15 mm/Φ8 mm/Φ4 mm (select single aperture)	
Sample thickness	less than 170 mm	
color space	CIE LAB, XYZ, Yxy, LCh, s-RGB, βxy	
Color Difference Formula	ΔEab, ΔE94, ΔEcmc (2:1), ΔEcmc (1:1), ΔE00	
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°	
Displayed Data	Spectral graph, sample chromativity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result	
Measurement Time	About 1.5s	
Measurement accuracy	0.01	
Repeatability	Φ20 mm caliber, less than 0.08 (after the instrument is warmed up and corrected, test the standard deviation value of the standard deviation value of the standard haze sheet with a haze of about 30 is tested at an interval of 5s)	
Inter-instrument agreement	Φ20mm,with 0.4 (After the instrument is preheated and calibrated, the standard deviation between the standard haze tablet and the reference value is tested at an interval of 5s.)	

Operating Environment	0~40°C (32~104°F)
Storage Environment	-20~50°C (-4~122°F)
Battery Performance	DC 24V, 3A power adapter
Lamp life	5 years, more than 30000000 times measurement
Display	7 inch TFT capacity, Touchscreen display
Interface	USB, printing port, Bluetooth
Data Storage	5,000 samples, 20,000 samples
Language	Chinese, English, traditional Chinese
Standard Accessories	Power adapter, user manual, quality management software (download), USB cable, 0% calibration box, measuring aperture
Optional Accessory	Mini printer, Test Fixture, Standard Haze Sheet, Footswitch
Size	290x211x511 mm
Weight	About 7.6 kg

MET103 HAZE METER

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Dynamic measurement

With compensation port, so that the measurement data more accurate

Easy to measure and widely applicable to samples

Quality control software

Model	MET103-700	MET103-700A	MET103-700B	MET103-700C
Optical Geometry	Transmittance: 0/D (parallel illumination, diffuse reflection receiving)	Transmittance: 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,JIS K7105, JIS K7361,JIS K 7136	ASTM D1003/1044 2410, JJF 1303-2 K7105,JIS K73	2011,CIE 15.2,JIS	ASTM D1003/1044,GB/T 2410,JJF 1303-2011,CIE 15.2,JIS K7105,JIS K7361,JIS K 7136
Integrating Sphere Size	Ф154mm Ф 40mm			
Illuminant	D65,A,C			
Spectral mode	/			
Sensor	The PD array detector satisfies CIE $V(\lambda)2$ degree visual response		V(λ)2 degree visual response	
Measurement Wavelength range				
Wavelength Pitch	/			
Semi-bandwidth	/			
Measuring range of transmittance	0-100%	0~100%		
Measurement Aperture	Φ20mm/Φ15mm/Φ8mm/Φ4mm(Select a single aperture)	Ф20mm/Ф8mm double caliber		nm/Ф8mm/Ф4mm(Select a ngle diameter)
Sample thickness	less than 170 mm			
color space	/			

Color Difference Formula		/		
Other Colorimetric data	Haze(ASTM D1003/1044,ISO13468),Transmittance T(ISO),Transmittance T(ASTM) Haze(ASTM D1003/1044, ISO 13468), Transmittance T(ASTM)		Haze(ASTM D1003/1044),Transmittance T(ASTM)	
Observer		2°		
Displayed Data	Pass/fail result			
Measurement Time		About 1.5s		
Measurement accuracy	0.01		0.1	
Repeatability	Φ20 mm caliber, less than 0.08 (after the instrument is warmed up and corrected, test the standard deviation value of the standard deviation value of the standard haze sheet with a haze of about 30 is tested at an interval of 5s)	Φ20mm,within 0.05 (After the instrument is preheated and calibrated, the standard deviation between the standard haze tablet and the reference value is tested at an interval of 5s.)	Φ20mm,within 0.08 (After the instrument is preheated and calibrated, the standard deviation between the standard haze tablet and the reference value is tested at an interval of 5s.)	Φ20mm,within 0.1 (After the instrument is preheated and calibrated, the standard deviation between the standard haze tablet and the reference value is tested at an interval of 5s.)
Inter-instrument agreement	Φ20mm,with 0.4 (After the instrument is preheated and calibrated, the standard deviation between the standard haze tablet and the reference value is tested at an interval of 5s.) Φ20mm,with 0.4 (After the instrument is warmed up and corrected, the standard deviation of the haze standard Haze and the reference value is tested at an interval of 5s.)		of the haze standard Haze film	
Operating Environment	0~40°C (32~104°F)			
Storage Environment	-20~50°C (-4~122°F)			
Battery Performance	D	DC 24V, 3A power adapter		
Lamp life	5 years, more	e than 30000000 tin	nes measurement	
Display	7 inch T	FT capacity, Touchs	creen display	
Interface	USB, printing port			
Data Storage	Standard 1000 pcs,sample 20000 pcs		Standard 1000 pcs,sample 10000 pcs	
Language	Chinese, English, traditional Chinese			
Standard Accessories	Power Adapter, User Guide, Quality Management Software (download from the official website), USB cable, 0% calibration box, measuring aperture. Power Adapter, User Guide, Quality Management Software (download from the official website), USB cable, 0% calibration box			
Optional Accessory	Mini printer, Test Fixture, Standard Haze Sheet, Footswitch Mini-printer, Test fixture, standard haze sheet, foot switch		ard haze sheet, foot switch	
Size	290x211x511 mm	-	-	-
Weight		About 7.6 kg		
Features	-	Double caliber compensation port	Photoelectric ir	ntegration, No compensation port
Dimension	- 290x211x511 mm		1 mm	

MET102 HAZE METER

Double standard ISO & ASTM

Multiple observation light sources

Easy operation and faster and more accurate measurement

Compensation port to make the measurement data more accurate

Dynamic measurement

Convenient measurement and wide sample adaptation

Quality management software

Model	MET102-154C MET102-154C		
Optical Geometry	Transmittance: 0/D (0-degree viewing angle diffuse illumination)		
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 K 7136		
Integrating Sphere Size	Φ 154mm		
Illuminant	D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8	,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30	
Spectral mode	Concave Grating		
Sensor	256 Image Element Double	Array CMOS Image Sensor	
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 single diameter)		
Sample thickness	Less than 150 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 test, 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), WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), Absorbance, Cobalt Platinum Index, Gardner Index	
Observer	2° / 10°		
Displayed Data	Spectral graph, sample chromativity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result		
Measurement Time	About 1.5s		
Measurement accuracy	0.01		
Repeatability	Φ20 mm caliber, less than 0.04 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze filmand the reference value is tested at an interval of 5s)		
Inter-instrument agreement	Φ20 mm caliber, less than 0.4 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze filmand the reference value is tested at an interval of 5s)		
Life lamp	5 years, more than 3000000 times measurements.		
Display	7 inch TFT Capacitive Touch screen display		
interface	USB, Printing port, Bluetooth		
Data Storage	Standard 5,000 samples, 30,000 samples	Standard 5,000 samples, 20,000 samples	

Language	Chinese, English, Traditional Chinese
Operating Environment	0 to 40°C (32 to 104°F)
Storage Environment	-20–50°C (-4 – 122°F)
Battery Performance	DC 24V 3A ,power adapter
Standard Accessories	Power adapter,manual, quality management software (download from official website), data cable, 0% calibration box, measuring caliber
Optional Accessory	Mini printer, Test Fixture, Standard haze sheet, Foot switch
Size	487X260X298 mm
Weight	About 8kg

MET103-100 HAZE METER

Double standard ISO & ASTM

Multiple observation light sources

Easy operation and faster and more accurate measurement

Compensation port to make the measurement data more accurate

Dynamic measurement

Convenient measurement and wide sample adaptation

Quality management software

Model	MET103-100
Optical Geometry	Transmittance: 0/D (0-degree viewing angle diffuse illumination)
Standards compliant	ASTM D1003/1044,ISO 13468,ISO 14782,GB/T 2410,JJF 1303-2011,CIE 15.2,JIS K7105,JIS K7361,JIS K 7136
Integrating Sphere Size	Φ 154mm
Illuminant	D65,A,C
Spectral mode	/
Sensor	PD array detector meeting CIE V(λ)2 degree visual response
Measurement Wavelength range	/
Wavelength Pitch	/
Semi-bandwidth	/
Measuring range of transmittance	0-100%
Measuring Aperture	Φ20 mm/Φ15 mm/Φ8 mm/Φ4 mm (select single diameter)
Sample thickness	Less than 150 mm
color space	/
Color Difference Formula	/
Other Colorimetric data	Haze (ASTM D1003/1044, ISO 13468), Transmittance T (ISO), Transmittance T (ASTM)
Observer	2° / 10°
Displayed Data	Pass/fail result
Measurement Time	About 1.5s
Measurement accuracy	0.01
Repeatability	Φ 20 mm caliber, less than 0.04 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze filmand the reference value is tested at an interval of 5s)
Inter-instrument agreement	Φ20 mm caliber, less than 0.4 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze filmand the reference value is tested at an interval of 5s)
Life lamp	5 years, more than 3000000 times measurements.

Display	7 inch TFT Capacitive Touch screen display	
interface	USB, Printing port	
Data Storage	Standard 1,000 samples, 20,000 samples	
Language	Chinese, English, Traditional Chinese	
Operating Environment	0 to 40°C (32 to 104°F)	
Storage Environment	-20–50°C (-4 – 122°F)	
Battery Performance	DC 24V 3A ,power adapter	
Standard Accessories	Power adapter,manual, quality management software (download from official website), data cable, 0% calibration box, measuring caliber	
Optional Accessory	Mini printer, Test Fixture, Standard haze sheet, Foot switch	
Size	487X260X298 mm	
Weight	About 8kg	



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