

HAZE METER



HAZE METER

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



SPECIFICATIONS

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 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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Quality control software



SPECIFICATIONS

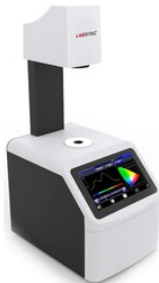
Model	MET103-700	MET103-700A	MET103-700B	MET103-700C
Optical Geometry	Transmittance: 0/D (parallel illumination, diffuse reflection receiving)	Transmittance:0/D Parallel light illumination, diffuse reflection reception		
Standards compliant	ASTM D1003/1044,ISO 13468,ISO 14782,GB/T 2410,JJF 1303-2011,CIE 15.2,JIS K7105,JIS K7361,JIS K 7136	ASTM D1003/1044, ISO 14782,GB/T 2410, JJF 1303-2011,CIE 15.2,JIS K7105,JIS K7361,JIS K 7136		ASTM D1003/1044,GB/T 2410,JJF 1303-2011,CIE 15.2,JIS K7105,JIS K7361,JIS K 7136
Integrating Sphere Size	Φ154mm	Φ 40mm		
Illuminant	D65,A,C			
Spectral mode	/			
Sensor	The PD array detector satisfies CIE V(λ)2 degree visual response	The PD array detector, satisfies CIE 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)	Φ20mm/Φ8mm double caliber	Φ20mm/Φ15mm/Φ8mm/Φ4mm(Select a single 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 film 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			
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, measuring caliber		
Optional Accessory	Mini printer, Test Fixture, Standard Haze Sheet, Footswitch	Mini-printer,Test fixture, standard haze sheet, foot switch		
Size	290x211x511 mm	-	-	-

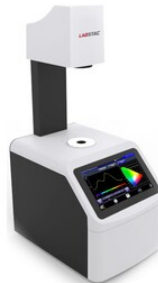
Weight	About 7.6 kg		
Features	-	Double caliber compensation port	Photoelectric integration, No compensation port
Dimension	-	290x211x511 mm	



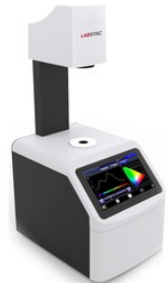
MET103-700



MET103-700A



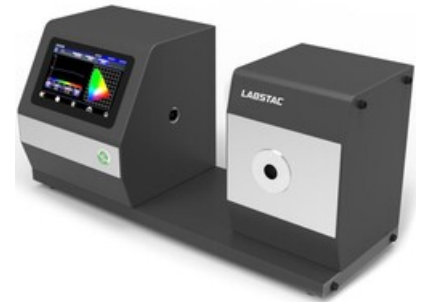
MET103-700B



MET103-700C

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



SPECIFICATIONS

Model	MET102-154	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	$\Delta E^*ab, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$	
Other Colorimetric data	Haze (ASTM D1003/1044, ISO 13468), Transmittance T (ISO), Transmittance T (ASTM), 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	$2^\circ / 10^\circ$	
Displayed Data	Spectral graph, sample chromaticity value, color difference value/graph, chromaticity graph, color simulation, pass/fail result	
Measurement Time	About 1.5s	
Measurement accuracy	0.01	
Repeatability	$\Phi 20$ mm caliber, less than 0.04 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze film and the reference value is tested at an interval of 5s)	
Inter-instrument agreement	$\Phi 20$ mm caliber, less than 0.4 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze film and the reference value is tested at an interval of 5s)	
Life lamp	5 years, more than 3000000 times measurements.	
Display interface	7 inch TFT Capacitive Touch screen display 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	



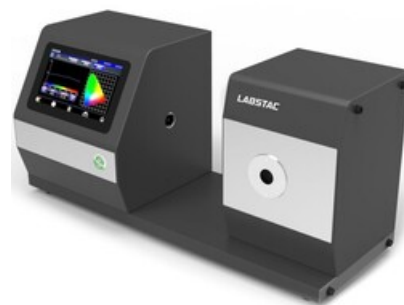
MET102-154



MET102-154C

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



SPECIFICATIONS

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	Φ20 mm caliber, less than 0.04 (after instrument is warmed up and corrected, the standard deviation of the haze standard haze film and 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 film and 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

LABSTAC

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