

Power Supply	Lithium Battery	
Size	Main Unit	140mmx45mmx75 mm
	Probe	-----
Weight	305g(Including Batteries)	

Accessories

Model	WM-106	WM-206
Standard Accessories	Main Unit	
	External Probe	—
	Standard White Board	
	Optical Cleaning Cotton Cloth	
	Carrying Case(B04)	Carrying Case
	Operation Manual	
Optional Accessories	Constant Pressure Powder Forming Apparatus	
	RS-232C Data Cable with Software	
	Bluetooth Data Adapter with Software	

Whiteness Meter WM-106

The Whiteness Meter WM-106 is equipped with a light source, optical system, detection system, data processing, and display system.

It calculates whiteness using the R457 blue light formula and features a simple, reliable optical path with a correction-enabled filter system for accurate quantitative measurements.

The instrument operates without preheating and requires only simple calibration, ensuring ease of use. It complies with JIG 512-2002 Whiteness Meter Verification Regulation and multiple international standards such as GB3978, GB3979, ISO2470, and others.

The WM-106 can store up to 254 measurement data sets and offers USB and RS-232 outputs for PC connectivity, with an optional Bluetooth output for added flexibility.

Features

- It consists of Light Source, Optical System, Detection System, Data Process and Display System. The whiteness Calculation Formula of the instrument is blue light whiteness R457.
 - Use of high quality imported components, good reliability.
- The optical path design is reasonable, simple. Adopt filter system with correction, the whiteness can be reflected quantitatively.
- No preheating after starting, measurements can be taken after simple calibration, easy to operate.
 - Pass strict inspection and testing, the instrument conforms to the JIG 512-2002 Whiteness Meter Verification Regulation.
 - Also conforms to GB3978, GB3979, GB7973, GB7974, ISO2470, GB8904.2, QB1840, GB2913, GB13025.2, GB1543, ISO2471, GB10339, GB5950, GB12911, GB2409 and other standards.
 - Able to memory 254 groups of measurement data.
 - Use USB data out put and RS- 232 data out put to connect with PC.
 - Provide Bluetooth data out put choice.



Principle

The light source of the instrument is long-life LED with 457nm, conforming to the light source requirement in the JJG 512-2002 National Metrological Whiteness Meter Verification Regulation. The measurement of the instrument adopts the principle of photoelectric effect. The diffuse reflectance Radiant Brightness Energy Value of the sample surface is received by the optical cell. Then, the value is amplified by high-precision auto zeroing operation amplifier, inputted to the calibration circuit for energy calibration. Then, the whiteness value of the sample is directly shown on the digital display.

Specifications

Range	0%~120%	
Resolution	0.1%	
Illumination Condition	45°/0°	
Illuminant	LED 457nm	
Whiteness Formula	Blue Light Whiteness WB=R457	
Measuring Aperture	<<15 mm	
Zero Drift	<<0.1%	
Stability of Display	<<0.5%	
Repeatability of Measurement	<<0.1%	
Operating Condition	Temperature	0°C~40°C
	Humidity	<85%RH
Power Supply	4x1.5V AAA(UM-4)Battery	
Size	Main Unit	156mmx67mmx28 mm
	Probe	Φ44mmx55 mm
Weight	200g(Not Including Batteries)	

Accessories

Model	WM-106	WM-206
Standard Accessories	Main Unit	
	External Probe	—
	Standard White Board	
	Optical Cleaning Cotton Cloth	
	Carrying Case(B04)	Carrying Case
	Operation Manual	
Optional Accessories	Constant Pressure Powder Forming Apparatus	
	RS-232C Data Cable with Software	
	Bluetooth Data Adapter with Software	