

Whiteness Meter WM-206

The Whiteness Meter WM-206 is a precision instrument designed for accurate measurement of material whiteness using the R457 blue light whiteness calculation formula. It features a reliable optical system, high-quality imported components, and a correction-enabled filter system for quantitative whiteness analysis. With no preheating required, the device is ready for operation after a simple calibration, offering ease of use and efficiency.



The WM-206 complies with the JJG 512-2002 Whiteness Meter Verification Regulation and aligns with multiple international and national standards, including GB3978, GB3979, ISO2470, and others. It can store up to 254 groups of measurement data and supports USB and RS-232 connections, with an optional Bluetooth output for enhanced connectivity. Designed for reliability and simplicity, this instrument is ideal for a wide range of industrial and laboratory applications.

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 JJG 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 Metro logical 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 receive 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	18mmx11 mm Rectangle	
Zero Drift	<<0.1%	
Stability of Display	<<0.5%	
Repeatability of Measurement	<<0.1%	
Operating Gondition	Temperature	0°C~40°C
	Humidity	<85%RH
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		