

Whiteness Meter (Separate Type/Integral Type)



WM-106

Model: WM-106 WM-206

Applications

Whiteness Meter is mainly used to directly measure the whiteness value of object or powder with flat surface. Can be widely used in whiteness measurement of textile printing and dyeing, paint, chemical building materials, paper board, plastic products, white cement, ceramics, enamel, talc powder, starch, flour, salt, detergent, cosmetics and other substances.

Principle

The instrument 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.

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 display.

Features

- * The optical path design is reasonable, simple. Adopt filter system with correction, the whiteness can be reflected quantitatively.
- * Use of high quality imported components.
- * No preheating after starting, measurements can be taken after simple calibration, easy to operate.
- * Able to memory 254 groups of measurement data.
- * 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 and other standards.
- * Use RS-232 data output to connect with PC.
- * Provide Bluetooth data output choice.



WM-206

Specifications

Model	WM-106	WM-206
Range	0~120	
Resolution	0.1	
Illumination Condition	45/0	
Illuminant	LED 457nm	
Whiteness Formula	Blue Light Whiteness WB=R457	
Measuring Aperture	≤15mm	18x11 mm Rectangle
Zero Drift	≤0.1	
Stability of Display	≤0.5	
Repeatability of Measurement	≤1	
Operating Condition	Temperature 0~40°C Humidity < 85%RH	
Power Supply	4x1.5V AAA (UM-4) Battery (Optional AC Power)	Lithium Battery
Size	Main Unit	156x67x28 mm
	Probe	Φ 44x55 mm
Weight	200 g (Not Including Batteries)	305 g (Including Batteries)

Accessories

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

