

## Whiteness Meter



### Introduction:

Whiteness meter with the digital display is mainly applicable for the measurement of the whiteness degree on the surface of the object or the powder in the white color and the color close to white. The whiteness degree can be accurately educed that is consistent with the visual degree. The opacity degree of the paper can also be accurately measured. This instrument can be widely applied for the measurement of the whiteness degree of the objects like textile & printing & dying, oil paint & dope, chemical construction material, paper & paper plate, plastic product, white cement, ceramics, porcelain enamel, porcelain clay, french chalk, starch, flour, salt, wash, and cosmetics, etc.

### Features for BK-WM1:

- \* AC & DC power supply, low power consumption, cabinet and handsome contour design, facilitating field and lab use.
- \* Configured with auto power-off function and low power dissipation circuit, able to effectively prolong service life of battery; free of ill influence from sunlight.
- \* The simple operation, and can accurately measure the opacity degree of the paper.
- \* Adopt the standard white plate rated by the central government to convey the standard value, and the measurement is accurate and reliable.
- \* Configured with output port of measured values, possible to connect with recording meter.

### Features for BK-WM2:

- \* The design with the reliable active platform, can effectively prevent the phenomenon of the light leak in the measurement hole.
- \* The simple operation, and can accurately measure the opacity degree of the paper.
- \* Adopt the standard white plate rated by the central government to convey the standard value, and the measurement is accurate and reliable.

### Features for BK-WM2A:

- \* The configuration with the high-automatic & multi-function microcomputer, equipped with the RS232 serial communication interface to connect the printer.
- \* The outstanding color-measurement performance is very accurate. Adopt the CAD, and the overall spectrum characteristics of the instrument comply with the responding curve of the CIE standard observer, and can accurately obtain the ISO whiteness degree.
- \* The embedded clock memory & storage system can store the measurement & correction data in real time, and can store and transfer 20 groups of the measurement data for long time, and can be used for the historic reference.
- \* The quick automatic correction, with the prompt of the self-diagnosis information, rapid and stable response, reliable maintenance-free operation.

### Features for BK-WM2A:

- \* Adopt the quality imported & original components, with the high-efficiency & low-spoilage circuit, and with the good reliability.
- \* The configuration with the high-automatic & multi-function microcomputer, equipped with the RS232 serial communication interface to connect the printer.
- \* The outstanding color-measurement performance is very accurate. Adopt the CAD, and the overall spectrum characteristics of the instrument comply with the responding curve of the CIE standard observer, and can accurately obtain the ISO whiteness degree.
- \* The embedded clock memory & storage system can store the measurement & correction data in real time, and can store and transfer 20 groups of the measurement data for long time, and can be used for the historic reference.
- \* The quick automatic correction, with the prompt of the self-diagnosis information, rapid and stable response, reliable maintenance-free operation.

### Technical Parameters:

Model	BK-WM1	BK-WM2	BK-WM2A	BK-WM3	BK-WM3A
Measuring Range	0~199		0~120		
Measuring Condition	45/0			0/d	D/0
Illuminant	D65				
Display	LCD				
Whiteness Mean	Whiteness degree of blue light Wb = R457				
Minimum Readout	0.1		0.01		
Calibrate	Φ15	Φ30			
Zero Draft	≤±0.1				
Basic Error	≤±2		≤±1		
Repeatability	0.2				
Power Supply	DC 1.5V, 5A alkaline dry cells, AC 220V/50Hz, DC7.5V 0.2A power supply adapter		AC220V, 50Hz(Optional 110V/50Hz, internal transformer)		
External Size	325*75*65mm		325*265*280mm		310*280*280mm
Package Size	370*285*175mm		400*330*345mm		370*355*380mm
Gross Weight	1.8 kg		5 kg	5.65 kg	4.1 kg