

## Whiteness Meter



BK-WM1



BK-WM2



BK-WM2A



BK-WM3 & BK-WM3A

### 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.
- \* Microcomputer, LCD liquid crystal with backlight display, low voltage warning, and the device will automatically shut down after 10 minutes of no operation.
- \* Automatic zeroing and correction, averaging measurement function. Stable measurement data, good repeatability and small error.
- \* Equipped with high-efficiency long-life LED light sources, maintenance-free operation is achieved.
- \* It can start working normally after a 30-second warm-up and is equipped with a USB data output interface.

### 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 overall spectrum characteristics of the instrument comply with the responding curve of the CIE standard observer, and can accurately obtain the ISO whiteness degree.
- \* High stability and reproducibility, completely eliminating system drift error, with data storage and query functions, meeting GLP requirements.
- \* Equipped with data storage and query functions, as well as fully automatic calibration.

### Features for BK-WM3 and BK-WM3A:

- \* 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 overall spectrum characteristics of the instrument comply with the responding curve of the CIE standard observer, and can accurately obtain the ISO whiteness degree.
- \* Nonlinear data processing and data smoothing functions, rapid automatic multi-point calibration, self-diagnostic information prompts, fast and stable response, maintenance-free reliable operation.
- \* High stability and reproducibility, completely eliminating system drift error, with data storage and query functions, meeting GLP requirements.
- \* Equipped with data storage and query functions, as well as fully automatic calibration.

### 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<br>Wb = R457                                                       |               |         |               |         |
| Minimum Readout      | 0.1                                                                                               |               | 0.01    |               |         |
| Calibrate            | Φ15                                                                                               | Φ30           |         |               |         |
| Zero Drift           | ≤±0.1                                                                                             |               |         |               |         |
| Indication Error     | ≤±2.5                                                                                             | ≤±1           |         |               |         |
| Repeatability        | 0.2                                                                                               |               |         |               |         |
| Power Supply         | AC 220V, 50/60Hz;<br>DC 7.5V, 0.2A(1.5V<br>AA alkaline dry<br>battery*5), power<br>supply adapter |               |         |               |         |
| External Size(W*D*H) | 235*75*65mm                                                                                       | 325*265*280mm |         | 310*280*280mm |         |
| Package Size(W*D*H)  | 370*285*175mm                                                                                     | 400*330*345mm |         | 370*355*380mm |         |
| Net Weight           | 0.8kg                                                                                             | 4kg           | 4.56kg  | 3.1kg         |         |
| Gross Weight         | 1.8kg                                                                                             | 5kg           | 5.56kg  | 4.1kg         |         |