



Colorimetro de blancura

Código: B2-01-011089**Marca:** Belltronic[Ver producto en Cotecno](#) | [Solicitar cotización](#)[Detalle](#) | [Especificaciones](#) | [Aplicaciones](#)

Detalle

The instrument uses the integrating sphere to realize the measurement of spectral diffuse reflectance. The optical principle is to use the blue light emitted by the semiconductor light source to directly enter the integrating sphere. The spectrum reflected by the surface is converted into an electrical signal by the silicon photocell after passing through the condenser lens, light barrier, and color filter group; another silicon photocell receives the base signal in the sphere. The two electrical signals are respectively amplified and processed by a single-chip microcomputer to realize the system functions of automatic zero calibration, working whiteboard calibration, and sample testing. Users can easily use this instrument to test the whiteness of various samples. Whiteness colorimeter is widely used in building materials (cement, silicate, talcum powder, kaolin), daily chemicals (cosmetics, detergents, washing powder), ceramics (building ceramics, daily ceramics), flour, salt industry, food, Beverage, textile, flax, fiber, chemical industry, plastics, metallurgy, ultrafine powder, papermaking, printing, measurement, commodity inspection, etc.

Features

- 1. Wide range of applications: The instrument can perform reflective measurement on solid samples, powder samples, pasty samples, silk samples and other surfaces.
- 2. Good measurement performance: The computer-aided design is adopted to make the spectral characteristics of the instrument measurement sensor conform to the CIE standard observer response curve, and can accurately obtain the XYZ tri-stimulus value.
- 3. Rich color system and chromaticity value: The instrument provides a variety of color systems, whiteness values and reference color differences, etc.
- 4. High automation and multi-function: The instrument can automatically collect and process data during operation, and the operation is simple and fast. The instrument also has a complete editing function, the user can input or modify the data and color difference target value of the standard whiteboard through the keyboard, and can choose the output mode arbitrarily.

Especificaciones técnicas

Especificación	Condición 0/d - Fuente luminosa estándar D65 - Campo de visión de 10°
Condición de iluminación/observación	Condición 0/d
Condición de observación	Fuente luminosa estándar D65
Observador estándar	Campo de visión de 10°
Apertura de medición	φ 18 mm
Tamaño de la muestra	Diámetro >φ15mm, espesor <40mm
Exactitud de indicación	x, y 0.0001, otros 0.01
Estabilidad	Deriva de cero ≤ 0.1 Deriva de indicación ≤ 0.2
Exactitud de medición	(Blancura) W<1.0

Especificación	Condición 0/d - Fuente luminosa estándar D65 - Campo de visión de 10°
Repetibilidad de medición	(Blancura) $\Delta W < 0.2$
Parámetros de color aparente	Valor absoluto: CIE XYZ, Yxy, L*a*b*, L*C*H*, HunterLab; diferencia de color: Yxy, L*a*b*, L*C*H*, HunterLab; blancura: blancura CIE86 Wg y valor TW, blancura R457 valor Wr, blancura Hunter valor Wh, blancura GB5950 valor Wj, blancura Stensby valor Ws, blancura Stephansen valor Wp
Alimentación eléctrica	220V,50/60Hz (estándar); 110V, 60Hz (opcional)
Temperatura de trabajo	0~40°C
Dimensiones externas (An*Pr*Al)	300* 330*280 mm
Peso neto	4.8 kg
Dimensiones del embalaje (An*Pr*Al)	400*400*400mm
Peso bruto	9kg

Aplicaciones

1. Review whiteness performance

Compare whiteness accuracy and repeatability with the tolerance of your quality control.

- **Measurement Accuracy:** (Whiteness) $W < 1.0$
- **Measurement Repeatability:** (Whiteness) $\Delta W < 0.2$

2. Check the sample size

Make sure the diameter and thickness of your samples are compatible with the instrument.

- **Specimen Size:** Diameter $> \phi 15\text{mm}$, Thickness $< 40\text{mm}$

3. Plan the installation

Confirm the available power supply, bench space and the temperature of the workplace.

- **Power Supply:** 220V,50/60Hz (Standard); 110V, 60Hz (Optional)
- **External Size(W*D*H):** 300* 330*280 mm
- **Working Temperature:** 0~40°C

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