

HST-IWM48 Intelligent Whiteness Meter



(The picture is for reference only)

Application Range

This instrument primarily measures the whiteness of various materials, including paper and paperboard, pulp and chemical fiber pulp, cotton and chemical fibers, textiles, plastics, ceramics, porcelain, starch, salt, white cement, kaolin, and talc. It can also measure the optical properties of thin materials, such as opacity.

Features:

1. Determine the blue light diffuse reflectance factor (R_{457}) of the sample, referred to as "blue light whiteness" or "ISO whiteness" (ISO Brightness).
2. Analyze whether the sample material contains fluorescent whitening agents and determine the fluorescent whiteness produced by fluorescence emission, i.e., fluorescent whitening degree.
3. Determine the luminance stimulus value Y_{10} of the sample, i.e., the green light diffuse reflectance factor R_y .
4. Determine the opacity, transparency (%), light scattering coefficient, and light absorption coefficient of the sample.

5. The instrument conforms to GB3978-83; standard illuminator and illumination observation conditions. Simulated D65 illuminator illumination. d/o illumination observation geometry is adopted, with a diffuse sphere diameter of 150mm, a test aperture diameter of 30mm, and a light absorber to eliminate the influence of specular reflection light from the sample.
6. The peak wavelength of the spectral power distribution of the R457 whiteness optical system is 457nm, and the half-width at half-maximum (FWHM) is 44nm. The Y10 optical system conforms to GB3979-83; object color measurement method.
7. Optional RS232 communication interface, optional mini printer printing results.

Specification

Model	HST-IWM48
Measurement range	0~199
Display accuracy	0.01
Light source	D65
Diffuse sphere diameter	150mm
Measuring aperture diameter	25mmx
Zero drift	≤0.1
Indication drift	≤0.1
Indication error	≤0.5
Repeatability error	≤0.1
Specular reflection error	≤0.1
Sample size	The test plane should be no smaller than Φ30mm and the thickness should not exceed 40mm.
Power supply	AC220V, 50Hz, 0.3A
Test conditions	Temperature 10~30℃, relative humidity not exceeding 85%
Main unit dimensions	364×264×400mm
Net weight	Approx. 18kgs
Standard configuration	Includes main unit, non-fluorescent white standard board, fluorescent whitening standard board, light source bulb, black trap, power cord, technical documents (printer optional).

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