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Whiteness and Chromaticity Tester TP-A10

Whiteness Meter TP-A11

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Whiteness and Chromaticity Tester TP-A10

Whiteness and chromaticity tester TP-A10 measures the whiteness, yellowness, color and color difference, reflectance value, stimulus value of the sample. It measures the paper opacity, transparency, light scattering coefficient, light absorption coefficient and ink absorption value. The compact, advanced circuit design ensures the accuracy and stability of measurement data. This color tester measures the ISO brightness (blue whiteness R457) & Z whiteness (Rz) of fluorescent whitening sample due to the emission of the fluorescent material.

Features

- Stimulate D65 illuminator to illuminate
- Measurement of the opacity, transparency
- Determination of light scattering coefficient 'S' and optical absorption coefficient 'A '
- Measuring ink absorption value
- Measures WH hunter whiteness, YI Yellowness, CIE whiteness,
- Use of large screen color touch LCD to view measurement, statistical data
- User-friendly data operations
- Equipped with RS232 interface, with PC connections for data communication
- Power protection, No loss of data on power off

Applications

Whiteness & color tester is used to measure color values, brightness, whiteness in paper-making, printing, ceramics, chemicals, textile printing and dyeing, building materials, food, salt and other industries.

Specification

Model no.	TP-A10
Sample (size) length	Diameter ≥30 mm, Thickness ≤ 40 mm
Measurement mode	Diffuse reflection factor Rx, Ry, Rz, stimulus value Y10, X10, Z10, chromaticity coordinates x10, y10, z10; lightness L *, chroma a * b *, chroma C * ab, hue angle h * ab, dominant wavelength λd, excitement purity Pe, color difference ΔE * ab, lightness difference ΔL *, chroma difference ΔC * ab, hue difference ΔH * ab, Hunter system L , A, b
Stability	≤ 0.1 within 30 min
Accuracy	Chromaticity co-ordinate 0.0001
Repeatability	Rx, Ry and Rz s ≤ 0.1 chromaticity co-ordinate s ≤ 0.0010, R457 s ≤ 0.10
System	D/0 lighting geometrical viewing conditions, diffuser diameter (d) 150 mm, testing hole diameter 30 mm
Light measurement	CIE whiteness (Ganz whiteness W10, Color cast value TW10), WH hunter whiteness, YI Yellowness, ISO brightness R457
Storage	9 reference samples
Dimension (L*W*H)	360×264×400 mm
Net weight	23 kg
Power supply	220 V ± 10 %, 50 Hz

Whiteness meter TP-A11

Whiteness meter TP-A11 is used to measure the whiteness of objects. Its compact, advanced circuit design ensures the accuracy and stability of measurement data. It measures ISO (R457) whiteness and fluorescence whitening of the materials. The whiteness meter is provided with light absorber to eliminate the influence of specular reflection of the sample.

Features

- Stimulate D65 illuminator to illuminate
- Adopted with D/0 lighting geometrical viewing conditions
- Determination of brightness stimulation value
- Determine the opacity
- Determination of transparency
- Determination of light scattering coefficient S and optical absorption coefficient A
- Measuring ink absorption value
- Equipped with RS232 interface, with PC connections for data communication
- Use of large screen color touch LCD to view measurement, statistical data
- User-friendly data operations
- Power protection, No loss of data on Power off

Applications

Whiteness meter is widely used to measure whiteness in paperboard, textile printing & dyeing, paint, plastic products, ceramic, enamel, detergent, cosmetics.

Specification

Model no.	TP-A11
Sample (size) length	Diameter ≥30 mm, Thickness ≤ 40 mm
System	D/0 lighting geometrical viewing conditions, diffuser diameter (d) 150mm, testing hole diameter 30mm
Light source	D65 as illuminating source
Zero drift	≤ 0.1 %
Indication drift	≤ 0.1 %
Indication error	≤ 0.5 %
Repeatability error	≤ 0.1 %
Mirror reflection error	≤ 0.1 %
Dimension (L*W*H)	360×264×400 mm
Net weight	20 kg
Power supply	220 V ± 10 %, 50 Hz