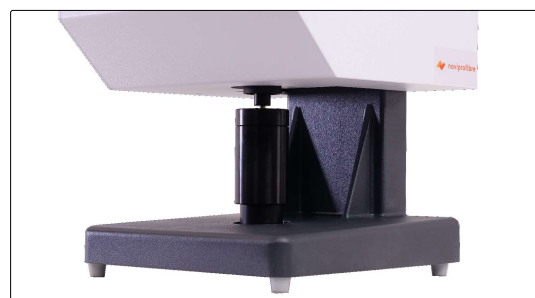


Spectrophotometer with touchscreen | N5950A

Compliant with standards

ISO 2469, ISO 2470, ISO 3688, ISO 11475, ISO 11476, TAPPI T 519, TAPPI T 525, TAPPI T 527, ...



Description

Device to determine the colorimetric characteristics of paper.

Equipped with PaperManager software:

- allows all measurements to be analysed and monitored live during testing,
- possibility to save data and to create standard library and sample library.

Two versions:

- N5900A without screen, need a PC.
- N5950A with touch screen.

Measure:

- Measuring with three light sources (D65, C and UVex.).
 - Measurements: whiteness (ISO, CIE), color (XYZ, L^* , a^* , b^* , L^*c^* , h^*), color difference, fluorescence, and opacity
- Spectral separation device: diffraction grating

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Technical specifications

Illumination/ viewing system	Reflectance d: 0° (diffused illumination, 0-degree viewing)
Integrating sphere	ø 152 mm (6 inch)
Detector	Silicon photodiode array (dual 40 elements)
Spectral separation device	Diffraction grating
Wavelength range	360 nm – 740 nm
Wavelength pitch	10 nm
Half bandwidth	Approx. 10 nm
Reflectance range	0 to 200%; Display resolution: 0.01%
Light source	Pulsed xenon lamp ×3
Illumination area	LAV : ø 34 mm; MAV : ø 11 mm
Measurement area	LAV : ø 30 mm; MAV : ø 8 mm
Measurement time	Within 1.5 sec
Minimum measurement interval	Within 2 sec (UV 100% measurement) Within 3 sec (UV 0%/UV adjusted measurement)
Repeatability	Colorimetric values : Standard deviation within ΔE^*_{ab} 0.02 (White Calibration Plate) Spectral reflectance : Standard deviation within 0.1% (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)
Inter-instrument agreement	Within ΔE^*_{ab} 0.2 (Based on average for 12 BCRA Series II color tiles; compared to values measured with a master body under Konica Minolta standard measurement conditions)
UV setting	100% / 0% / Adjusted (Instantaneous numerical adjustment of UV with no mechanical filter movement required); 400 nm and 420 nm UV cutoff filters
Applicable standards	LAV measurements conform to ISO 2469, JIS P8148, DIN 53145-1 and DIN 53145-2 standards.
Viewfinder function	Using built-in camera; Software (not included) required.
Interface	USB2.0 Full speed
Power	Dedicated AC adapter
Operating temperature/ humidity range	Temperature: 13 to 33°C, Relative humidity: 80% or less (at 33°C) with no condensation
Storage Temperature/ humidity rang	Temperature: 0 to 40°C, Relative humidity: 80% or less (at 35°C) with no condensation
Size (W×H×D)	Approx. 300 × 612 × 315 mm
Weight	Approx. 16 kg

Characteristics

110 – 230 V 50/60 Hz AC

Contents of the delivery

Spectrophotometer
 NOVICOLOR software
 1 set of calibration standards
 1 ceramic plate
 1 black pot