

datacolor 
245 SPECTROPHOTOMETER™

See the
Difference



45°/0° dual-beam
reflectance spectrophotometer
designed to correlate with
a sample's appearance



Technical Specifications*

Instrument Type

Dual-beam reflectance spectrophotometer

Measurement Geometry

45° illumination and 0° viewing

Illumination Source

Pulsed xenon

Spectral Analyzer

Proprietary SP2000 analyzer with dual 256 diode array and high resolution holographic grating

Wavelength Range

400 nm to 700 nm

Reporting Interval

10 nm

Effective Bandwidth

10 nm

Photometric Range

0 to 200%

Black Trap

high performance

20 Read Repeatability on the White Tile (CIELAB)

0.03 max

Inter-Instrument Agreement¹ for BCRA Tiles (CIELAB)

0.2 max

0.1 avg.

Aperture Size

16 mm illuminated; 11 mm viewed

Size And Weight with Drawer

Height 235 mm / 9.25 in

Width 171.5 mm / 6.75 in

Depth 314 mm / 12.375 in

Weight 6.3 kg / 14 lb

Power Requirements

85 to 264 VAC, 47 to 63 Hz,

80 VA peak, 35 VA typical

Absolute Operating Range

5° to 40° C, 5% to 85% non-condensing relative humidity

Interface

RS-232 or USB 1.1

¹ Environmental conditions apply.

* Specifications subject to change without notice.

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245TM SPECTROPHOTOMETER



Better Simulation for Quality Control

Datacolor brings a new, solid-state approach to 45°/0° color measurements. The Datacolor 245TM is designed for accurate color measurements as well as exceptional correlation with visual assessments of appearance. By providing a better correlation to what the actual product will look like, you can make more educated color decisions.

Exceptional Performance

Laboratory precision is now available on the production floor. The Datacolor 245TM's unique optical design has a sealed optical path for improved repeatability and long-term reliability. Physical samples undergo changes to gloss and texture through normal use. Storing standard measurements made using the Datacolor 245TM will ensure that you are matching the right numbers, regardless of any changes to the physical samples over time. This improves overall process control.

In addition, the Datacolor 245TM provides:

- ❖ True, dual-beam measurements using pulsed xenon illumination
- ❖ Exceptionally low drift for greater stability and fewer recalibrations
- ❖ Datacolor's proprietary high-end sensor
- ❖ Conformance to ASTM E1164 Standard Practice for Obtaining Spectrometric Data for Object-Color Evaluation
- ❖ Compatibility with the Datacolor SPECTRUMTM line of software products
- ❖ Datacolor's worldwide support

Because Color Matters



As a product within Datacolor SPECTRUMTM, the complete solution for successful global color management, the Datacolor 245TM provides exceptional color-measurement capability. It is an integrated part of the Datacolor SPECTRUMTM solution for controlling all aspects of color management. This helps companies innovate faster, ensure consistent color quality, reduce the cost of production and accelerate their product's speed to market. Because color matters, leading businesses worldwide choose Datacolor's innovative technology and solutions to consistently achieve the right color.

Agent or local office stamp in this space

For more information,
please visit www.datacolor.com.

Americas

+1.609.924.2189

marketing@datacolor.com

Europe

+41.1.835.3711

ecmarketing@datacolor.com

Asia

+852.2420.8283

asiamarketing@datacolor.com

In over 60 countries ... see www.datacolor.com/locations for a complete list.

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Because Color Matters