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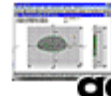
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instruments

SPECTRAFLASH SF450®

The Affordable Reference Spectrophotometer for Industrial Measurement

The Spectraflash SF450 is a high performance spectrophotometer suitable for either reference laboratory or routine production color operations. It is based on the optical and measuring systems of the proven Spectraflash SF600 Plus and its measurements are data compatible with any SP 2000 or MC-90 Datacolor instrument.

The SF450 employs a pulsed Xenon light source to illuminate a 6 inch (152mm) diameter integrating sphere that provides sample illumination. Sample viewing is accomplished through a high quality optical system featuring an automated zoom lens.

The SF450's dual beam SP 2000 Spectrophotometer measures both the sample and the reference beams using a matched pair of 256 diode arrays. Wavelength discrimination is accomplished by a precision holographic diffraction grating.

The SF450 utilizes measurement systems normally found in more expensive spectrophotometers and is an excellent choice whenever high performance color measurement is needed at an affordable cost.

SF450 Features:

- Available in either horizontal or vertical measuring orientations
- Automatic (motorized) specular included or excluded
- Automatic (motorized) zoom lens
- Optional automatic (motorized) UV Control and Cutoff Filters
- Compact rugged design suitable for the laboratory or production environment
- SP 2000 Spectrophotometer with dual 256 diode arrays and high resolution grating
- Full data compatibility with all Datacolor SP 2000 or MC-90 instruments
- Measuring areas: LAV, SAV, USAV
- Excellent inter-instrument agreement (reproducibility)
- Excellent inter-lens agreement

[Product Information](#)

[Options](#)

[Technical Data](#)

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Product Information

Measurement Geometry	Diffuse/8°
Illumination Source	Pulsed Xenon Lamp filtered to D65
Integrating Sphere	152 mm (6 inch); coated with BASO ₄
Measurement Principle	Dual-beam
Viewing Lens Switching	Automatic Zoom
Specular Factor	Automatic Included or Excluded
Spectrophotometer	SP2000 Analyzer with two photodiode arrays and holographic grating
Measuring Apertures	- LAV - 30 mm illuminate/26 mm view - SAV - 9 mm illuminate/5 mm view - USAV - 6.5 mm illuminate/2.5 mm view

Options

Automatic UV Control	Automatic UV Calibration for the measurement and control of fluorescent samples with UV cut-off filters at: 400nm, 420 nm, and 460 nm
Vertical Orientation	Vertical Orientation with Pedestal

Technical Data

Spectral Range	360-700 nm
Wavelength Resolution	2 nm (measured)
Wavelength Interval	10 nm (reported)
Wavelength Bandpass	10 nm (Reported)
Photometric Range	0-200%
Photometric Resolution	0.003%
20 Read Repeatability	0.02 ΔE CIELAB Maximum (On the white tile, dual flash)
Inter-instrument Agreement (Reproducibility)	$\Delta E < 0.15$ CIELAB (Average)** $\Delta E < 0.25$ CIELAB (Maximum)** ** SCI on BCRA Tile Set

Physical Electrical

Size (Horizontal Model)	47.0 x 29.2 x 30.0 cm (18.5 x 11.5 x 11.8 inch)
Size (Vertical Model)	59.7 x 29.2 x 35.6 cm (23.5 x 11.5 x 14.0 inch)
Weight (Horizontal Model)	14 kg (31 lb)
Weight (Vertical Model)	17 kg (38 lb)
Power	100 to 240 VAC, 47 to 63 Hz, 100 VA
Environment	5 to 40°C, 20 to 85% RH

For more additional information, [contact our Datacolor product managers](#).

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