SPECTRAFLASH 300®

Cost-Effective Color Measurement for the Laboratory and Production

The SPECTRAFLASH SF300 spectrophotometer is a compact, affordable instrument designed for reflectance measurements in laboratory and production environments. A precision instrument with diffuse/8° geometry and true dual-beam measurement , the SF300 features the same state-of-the-art SP2000 spectro analyzer as Datacolor's SPECTRAFLASH SF600™ and Mercury® portable spectrophotometers.

Superior inter-instrument agreement is a key feature of the SF300. Measurements of the same sample made by different SF300 instruments are highly reproducible. In addition, sample measurement data from SF300 spectrophotometers and other bench top and portable instruments in the new Datacolor SP2000 instrument family offer excellent data compatibility.

SF 300 Features:

- Compact space-saving design equally suited to laboratory, production and quality control work area
- True dual beam design for repeatable reflectance measurements year after year
- Superior inter-instrument agreement of data with Datacolor's new, proprietary SP2000 technology
- Full data compatibility with all Datacolor SP2000 and MC-90™ instruments
- Pulsed Xenon illumination filtered to D65
- Large and ultra-small measuring areas to cover a wide range of samples

Product Information

Measurement principle:	Dual-beam spectrophotometer
Geometry:	diffuse/8°
Spectrometer:	Proprietary SP2000 analyzer with two 256 pixel diode arrays and high resolution holographic grating
Sphere diameter:	66 mm (2.6in); coated with $BaSO_4$

Viewing apertures:	
Ultra Small Area View	6.5 mm illuminated/2.5 mm measured
Large Area View	22 mm illuminated/18 mm measured
Specular factor:	Automated included or excluded
Specular range:	400 nm to 700 nm
Wavelength resolution:	2 nm
Effective bandwidth:	10 nm
Reporting interval:	10 nm
Photometric range:	0 to 200 %
Light source:	Pulsed Xenon Lamp, filtered to approximate D65
Measurement time:	2 seconds

Performance

Repeatability:	0.02 ΔE CMC on white
Reproducibility:	$\Delta E \leq$ 0.35 CMC maximum $\Delta E \leq$ 0.2 CMC average Specular included on BCRA tiles

Physical/Electrical

Height:	8.3 in/ 210.8 mm
Width:	8.6 in/ 218.4 mm
Depth:	12.2 in/ 309.9 mm
Weight:	9.5 lb/ 4.3 kg
Power:	95 to 265VAC, 45 to 65Hz, 50VA
Environment:	5 to 40° C, 20 to 85% RH, non-condensing
Interface:	RS-232 9600/19200 baud

For more additional information, contact our Datacolor product managers.

Download Technical Data

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