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Data Sheet

August 13, 2026

EXFO

Exfo R5000 UV/Visible 250-600nm Radiometer

Exfo R5000 UV/Visible 250-600 nm Radiometer The EXFO (EFOS heritage) R5000 is a handheld UV/visible radiometer for broadband power and irradiance measurements from 250 nm to 600 nm. A non-imaging optical interface reduces radiance/intensity-dependent measurement variation, and a flat-response detector covers the stated band. Auto-ranging power and irradiance scales, peak hold, absolute/relative modes, and automatic sensing of 3/5/8 mm light guides support spot-cure and illumination process control. The EXFO (EFOS heritage) R5000 is a handheld UV/visible radiometer for broadband power and irradiance measurements from 250 nm to 600 nm. A non-imaging optical interface reduces radiance/intensity-dependent measurement variation, and a flat-response detector covers the stated band. Auto-ranging power and irradiance scales, peak hold, absolute/relative modes, and automatic sensing of 3/5/8 mm light guides support spot-cure and illumination process control.



MODEL

Exfo R5000

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R5000

LISTING

<https://aumictechlabs.com/products/r5000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo R5000 is a precision UV/Visible radiometer for measuring light intensity across the 250–600 nm wavelength range. It delivers absolute power, relative, peak hold, and real-time measurement modes with 10 mW resolution across a 10 mW to 15 W dynamic range. The instrument uses a proprietary non-imaging optical interface to eliminate measurement variation from source radiance and intensity fluctuations, paired with a flat response detector that

maintains accuracy across the entire specified spectrum. Technical Specifications Wavelength Range: 250–600 nm Power Range: 10 mW to 15 W Resolution: 10 mW Measurement Modes: Absolute (power/irradiance), Relative (% of reference), Peak Hold, Real-time Auto-ranging: Automatic range selection Output Units: Power (mW, W) or Irradiance (mW/cm², W/cm²) Light Guide Compatibility: 3 mm, 5 mm, 8 mm diameters with appropriate adapters Weight: 1.09 kg (2.4 lbs) Shipping Dimensions: 24.38 cm × 36.58 cm × 18.29 cm Key Features Proprietary non-imaging optical interface virtually eliminates radiance-induced measurement variation Flat response optical detector system ensures uniform sensitivity across 250–600 nm Auto ON/OFF activation at 10 mW threshold with inactivity shutdown Compact, ergonomic hand-held form factor Typical Applications UV curing process monitoring Photolithography intensity verification Laboratory spectral power measurements Compatibility & Integration External bandpass filters for wavelength-selective measurement Proximity measurement adapter for flood geometry Lamp output adapter for light source coupling Automatic light guide diameter sensing and accommodation

Features & description

From manufacturer datasheet

Features

- Broadband response 250 to 600 nm

Applications

- UV/visible spot-cure system output verification

R5000 Characteristics / Specifications

PARAMETER	VALUE
Model	R5000
Manufacturer	EXFO (EFOS heritage)
Instrument Type	UV/Visible Handheld Radiometer
Alias	EFOS R5000; EXFO R5000
Wavelength range	250 nm to 600 nm
Power low range	10 to 990 mW
Power high range	1.0 to 15.00 W
Irradiance low range	50 to 990 mW/cm ²
Irradiance high range	1.0 to 225 W/cm ²
Power overall span	10 mW to 15 W
Power resolution class	10 mW
Display	3 1/2 digit LCD with mode indicators
Light guide diameters	3 mm, 5 mm, 8 mm (auto sense)
Adapters included	3 mm and 5 mm adapters provided
Measurement modes	Power; Irradiance
Reference modes	Absolute; Relative (%)
Peak Hold	yes
Auto turn on threshold	optical signal 10 mW or greater
Auto turn off delay	display remains ~10 s then flashes ~5 s
Standard filter	blank removable filter
Calibration	NIST-traceable (with blank filter per OEM)
Certifications	CE; IEC; UL; CSA class; ISO 9001 manufacture
Form	handheld portable enclosure
Weight class	about 1.09 kg (2.4 lb) unit class
Shipping size class	about 24.4 cm x 36.6 cm x 18.3 cm package class

PARAMETER	VALUE
Detector response	flat response across 250 to 600 nm
Optical interface	non-imaging collection over large area
Primary use	UV/visible curing and illumination radiometry Notes Specs from EXFO R5000 user manual (control/feature and range tables) and reseller listings. Confirm filter set, calibration date, and exact mechanical dimensions on the faceplate/certificate; do not confuse with OmniCure R2000 (wider 250 nm to 1 um class).

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Reference modes	Absolute; Relative (%)
Peak Hold	yes
Auto turn on threshold	optical signal 10 mW or greater

Auto turn off delay: display remains ~10 s then flashes ~5 s

Standard filter: blank removable filter

Optional filters: externally changeable bandpass filters

Specifications

PARAMETER	VALUE
Calibration	NIST-traceable (with blank filter per OEM)
Certifications	CE; IEC; UL; CSA class; ISO 9001 manufacture
Form	handheld portable enclosure

Specifications

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.