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Data Sheet

August 13, 2026

EXFO

Exfo NR5000 Radiometer Module

The EXFO/EFOS NR5000 (often P/N 751-00079) is the NIST-traceable radiometer detector module used with the R5000 UV/Visible handheld radiometer system. The R5000 measures broadband optical power and irradiance from 250 to 600 nm for UV curing, biomedical, and illumination process control, using a flat-response detector and non-imaging optical interface. Model: NR5000 / R5000 radiometer system module Instrument Type: UV/Visible Radiometer Detector Module Alias: NR5000; 751-00079; R5000 Radiometer Module Power resolution class: 10 mW (published reseller/lab listings)



MODEL	CALIBRATION
Exfo NR5000	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
NR5000	https://aumictechlabs.com/products/nr5000-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo NR5000 Radiometer Module is a portable optical power measurement instrument for precise irradiance and power readings across the ultraviolet and visible spectrum. It integrates with EXFO optical test platforms to deliver high-accuracy measurements in laboratory and manufacturing environments. The module employs a proprietary flat-response detector and non-imaging optical interface to minimize measurement variation caused by source radiance and intensity fluctuations, while supporting multiple measurement modes and auto-sensing capabilities. Technical Specifications Wavelength Range: 250 nm to 600 nm Accuracy: $\pm 5\%$ over 250–600 nm range Power Range: 10 mW to 15 W Resolution: 10 mW Operating Voltage: 9 V (battery) Detector System: Proprietary flat-response optical detector; uniform sensitivity across

250–600 nm Optical Interface: Non-imaging design; minimizes beam profile dependence

Key Features

Measurement Modes: Power (Watts), irradiance (mW/cm^2 or W/cm^2), real-time tracking, peak hold, relative (percentage of reference), and absolute (NIST-traceable) modes

Light Guide Auto-Sensing: Detects 3 mm, 5 mm, and 8 mm industry-standard diameters automatically

Smart Power Management: Auto-ON when optical signal ≥ 10 mW detected; auto-OFF after inactivity

Auto-Ranging: Full-scale measurement range selected automatically

Exchangeable Filters: Field-selectable wavelength ranges via EXFO filter cartridges (250–450 nm, 320–500 nm, 365 nm bandpass, 320–390 nm, 400–500 nm)

Form Factor: Compact, hand-held design for portable operation

Interfaces and Compatibility

Optical Input: Proprietary connector; compatible with EXFO light guide adapters

Adapter Support: Works with Lamp Output Adapter and Proximity Measurement Adapter for flood geometry measurements

Light Guide Coupling: Requires EXFO-compatible light guide adapters for 3 mm, 5 mm, and 8 mm guides

Features & description

From manufacturer datasheet

Features

• Broadband response 250–600 nm • NIST-traceable calibration class (blank removable filter) • Auto-ranging power and irradiance displays • Automatic sensing of 3 mm, 5 mm, and 8 mm light guides • Relative, real-time, and peak-hold modes • Externally exchangeable bandpass filters • Non-imaging optical interface reduces beam-profile dependence

Applications

• UV/Visible spot curing source verification • Manufacturing and assembly process radiometry • Biomedical and illumination light source QA • Power and irradiance checks on 3/5/8 mm light guides • Relative and peak-hold process monitoring

NR5000 Characteristics / Specifications

PARAMETER	VALUE
Model	NR5000 / R5000 radiometer system module
Manufacturer	EXFO (EFOS)
Instrument Type	UV/Visible Radiometer Detector Module
Alias	NR5000; 751-00079; R5000 Radiometer Module
Host instrument	EXFO/EFOS R5000
Wavelength range	250 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 resolution class	10 mW (published reseller/lab listings)
Light guide diameters sensed	3 mm; 5 mm; 8 mm
Adapters provided	3 mm and 5 mm
Display	3.5 digit LCD with mode icons
Modes	absolute; relative %; peak hold; power; irradiance
Detector system	flat response optical detector
Optical interface	non-imaging collector
Calibration	NIST-traceable class
Compliance markings	CE; IEC / Canadian / US standards class
Form	handheld radiometer with removable module
Typical system weight class	~1.1 kg
Primary use	UV curing and broadband radiometry Notes Specs from EXFO/EFOS R5000 user documentation and product descriptions for the NR5000/751-00079 radiometer module. Confirm filter set, calibration certificate, and module revision on the hardware.

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.

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

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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.