

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

EXFO NR-9200/NR-9200HR: Optical Fiber Analyzer

The EXFO NR-9200/HR is a high-resolution optical fiber analyzer for refractive index profiling and geometry measurements. It ensures precise characterization of single-mode and multimode fibers, supporting R&D, manufacturing, and quality control in the fiber optics industry.



MODEL

Exfo NR-9200/NR-9200HR

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

NR-9200/NR-9200HR

LISTING

<https://aumictechlabs.com/products/nr-9200-nr-9200hr-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO NR-9200/NR-9200HR is a high-resolution optical fiber analyzer for precise characterization of single-mode and multimode fibers across R&D, manufacturing, and quality control environments. It combines Refracted Near-Field (RNF) and Transmitted Near-Field (TNF) measurement techniques to deliver detailed refractive index profiles (RIP), geometrical parameters, and mode-field diameter (MFD) data at 1310 nm and 1550 nm. Technical Specifications Measurement Techniques Refracted Near-Field (RNF) for refractive index profile and geometric characterization Transmitted Near-Field (TNF) for mode-field diameter analysis Measured Parameters Refractive Index Profile (RIP) along x- and y-axes with 3D visualization Core and cladding diameter, concentricity, and ring size for dispersion-shifted fibers Mode-Field

Diameter (MFD) at 1310 nm and 1550 nm per Petermann II and Gaussian definitions Numerical Aperture (NA) and alpha parameters for multimode fibers Fiber Compatibility Single-mode and multimode fibers; cladding diameter range 80 μm to 500 μm Measurement Accuracy RIP accuracy: ± 0.0001 (NR-9200) Cladding diameter: $\pm 0.2 \mu\text{m}$ (NR-9200), $\pm 0.00012 \mu\text{m}$ (NR-9200HR) MFD: $\pm 0.2 \mu\text{m}$ (NR-9200), $\pm 0.00012 \mu\text{m}$ (NR-9200HR) Compliant with TIA/EIA-455-44B, TIA/EIA-455-165A, IEC 60793, ITU-T G.650/G.651 Optional Calculations (with Optiwave OptiFiber software) Material and waveguide chromatic dispersion with λ_0 and D-slope parameters Effective mode indices versus wavelength, cut-off wavelength Near-field intensity profiles as a function of wavelength Key Features Automated fiber positioning and focusing for rapid, reliable measurement cycles Real-time 3D raster scans of RIP and MFD data Intuitive user interface optimized for laboratory workflow Typical Applications Fiber characterization during design and development, in-line manufacturing QC, and fiber parameter validation for standards compliance. Compatibility & Integration Environmental Operating temperature: 10 °C to 30 °C Storage temperature: 10 °C to 30 °C Relative humidity: 0 % to 80 % non-condensing Power & Physical 100–240 V, 50–60 Hz, 1 A maximum Dimensions: 21.9 cm $\times$ 53.0 cm $\times$ 52.2 cm; Weight: 36 kg

Features & description

From manufacturer datasheet

Polarization Dependence Class: low PDL class on family

Insertion Loss Class: specified on datasheet Operating Temperature Class: laboratory Series Family: EXFO NR reflectors Calibration: reflectance vs setting tables Remote Control: typically manual Pairing Instruments: IQ-3200 IQS-3200 ORL meters class Return Loss Test Support: yes Manufacturer: per instrument faceplate branding Documentation Basis: OEM datasheet or operating manual family Specification Ambient Class: 23 C class unless otherwise stated Calibration Traceability Class: standards laboratory traceable class Firmware Or Hardware Revision: confirm on unit labels Notes Identity and capability rows from EXFO NR-9200 variable reflector product literature. Confirm exact reflectance span and wavelength dependence on the unit datasheet and calibration certificate.

NR9200NR9200HR Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	EXFO NR-9200 variable optical reflector
Function	calibrated variable reflectance
Fiber Type	singlemode
Reflectance Range Class	wide adjustable reflectance class
Wavelength Coverage Class	telecom bands class
Connector Interface	EXFO UI or FC class
Form Factor	benchtop optical accessory
Resolution Class	fine reflectance steps class
Repeatability Class	high repeatability class
Polarization Dependence Class	low PDL class on family
Insertion Loss Class	specified on datasheet
Operating Temperature Class	laboratory
Series Family	EXFO NR reflectors
Calibration	reflectance vs setting tables
Remote Control	typically manual
Pairing Instruments	IQ-3200 IQS-3200 ORL meters class
Return Loss Test Support	yes
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Calibration Traceability Class	standards laboratory traceable class
Firmware Or Hardware Revision	confirm on unit labels
Operating temperature	Class: laboratory
Return loss	Test Support: yes

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Series Family	EXFO NR reflectors
Calibration	reflectance vs setting tables
Remote Control	typically manual
Pairing Instruments	IQ-3200 IQS-3200 ORL meters class
Return Loss Test Support	yes
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Calibration Traceability Class	standards laboratory traceable class
Firmware Or Hardware Revision	confirm on unit labels Notes Identity and capability rows from EXFO NR-9200 variable reflector product literature. Confirm exact reflectance span and wavelength dependence on the unit datasheet and calibration certificate.

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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Notes	
Identity and capability rows from EXFO NR-9200 variable reflector product literature. Confirm exact reflectance span and wavelength dependence on the unit datasheet and calibration certificate.	

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.