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Data Sheet

August 2, 2026

ANRITSU

Anritsu MS9720A – Optical Spectrum Analyzer

Anritsu MS9720A – Optical Spectrum Analyzer The Anritsu MS9720A provides a diffraction-grating optical spectrum analyzer designed for WDM communications spectra in the 1450 to 1650 nm band, with high wavelength accuracy, wide dynamic range, and sensitivity suited to manufacturing, installation, and maintenance of WDM devices and systems. WDM channel and OSNR analysis; EDFA and optical amplifier spectral evaluation; LD and optical source SNR measurement; optical leakage and reflected-light characterization; production and field maintenance of WDM communications equipment. The Anritsu MS9720A provides a diffraction-grating optical spectrum analyzer designed for WDM communications spectra in the 1450 to 1650 nm band, with high wavelength accuracy, wide dynamic range, and sensitivity suited to manufacturing, installation, and maintenance of WDM devices and systems. WDM channel and OSNR analysis; EDFA and optical amplifier spectral evaluation; LD and optical source SNR measurement; optical leakage and reflected-light characterization; production and field maintenance of WDM communications equipment.



MODEL

Anritsu MS9720A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9720A

LISTING

<https://aumictechlabs.com/products/ms9720a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MS9720A is a portable optical spectrum analyzer for precise measurement of optical signals across the C-band and L-band wavelengths. It delivers high sensitivity and wavelength

accuracy suitable for WDM system commissioning, maintenance, and troubleshooting in fiber optic networks. The instrument uses diffraction grating dispersion to resolve and measure individual wavelength channels with 5 pm read resolution and 1 pm display resolution.

Technical Specifications

Wavelength Measurement Measurement range: 1450 to 1650 nm Accuracy: ± 20 pm (1530–1570 nm after calibration), ± 0.3 nm (full range after calibration) Read resolution: 5 pm Display resolution: 1 pm Stability: ± 5 pm (11-point smoothing, 1 minute) Setting resolution (3 dB filter bandwidth): 0.1, 0.2, 0.5, 1.0 nm

Level Measurement Measurement range: -87 to $+10$ dBm (1450–1600 nm, 0–30 °C); -72 to $+10$ dBm (1600–1650 nm, 0–30 °C) Accuracy: ± 0.4 dB (at 1550 nm, -23 dBm) Dynamic range: 58 dB (1 nm from peak), 53 dB (0.5 nm from peak) Flatness: ± 0.1 dB (1550 ± 20 nm) Stability: ± 0.02 dB (1 minute, constant temperature)

Reception & Source Optical reception sensitivity: -87 dBm Built-in SLD source output: > -40 dBm/nm (at 1550 nm) Optical return loss: 35 dB (at 1550 nm)

Display & Memory Display: 6.4-inch color TFT-LCD with split-screen capability Measurement memories: three Traces: three

Interfaces & Storage Communication: GPIB, RS-232C, VGA output Data storage: 3.5-inch FDD and HDD

Optical Connectors User replaceable: FC, SC, ST, DIN, HMS-10/A Factory options: E2000, FC-APC, SC-APC, HRL-10

Applicable fiber: 10/125 μ m SM (ITU-T G.652) Power Input: Universal 85–132 Vac / 172–250 Vac, 47.5–63 Hz Consumption: 150 VA (max.)

Key Features High wavelength accuracy after calibration for precise channel identification Three independent measurement traces with difference computation Internal optical attenuator extends level measurement range to $+23$ dBm Interchangeable connectors accommodate diverse field installations Built-in SLD reference source eliminates external light source dependency

Typical Applications WDM system performance verification and acceptance testing Optical signal monitoring and channel power measurement Wavelength calibration and drift detection Fiber plant commissioning and maintenance Network troubleshooting and spectral analysis

Compatibility & Integration The MS9720A accepts standard SMF connectors and integrates with test control systems via GPIB and RS-232C interfaces. Measurement data export to floppy and hard disk enables post-processing and archival workflows.

Features & description

From manufacturer datasheet

Features

- Diffraction-grating OSA optimized for WDM (1450–1650 nm) • Wavelength accuracy ± 20 pm class with built-in reference optical source (1530–1570 nm class after calibration) • Dynamic range 58 dB class at 1 nm from signal wavelength • Optical reception sensitivity to -87 dBm • Three memories, three traces, split-screen display • VGA output connector • Full application suite for WDM device manufacturing through installation/maintenance

MS9720A Characteristics / Specifications

PARAMETER	VALUE
Anritsu MS9720A	Optical Spectrum Analyzer Overview The Anritsu MS9720A provides a diffraction-grating optical spectrum analyzer designed for WDM communications spectra in the 1450 to 1650 nm band, with high wavelength accuracy, wide dynamic range, and sensitivity suited to manufacturing, installation, and maintenance of WDM devices and systems.
Model	MS9720A
Manufacturer	Anritsu
Instrument Type	Optical Spectrum Analyzer (WDM)
Wavelength Range	1450 to 1650 nm
Wavelength Accuracy	±20 pm (with built-in reference source; 1530–1570 nm class)
Dynamic Range	58 dB (1 nm from signal wavelength)
Optical Reception Sensitivity	–87 dBm
Applicable Fiber	10/125 μm SM (ITU-T G.652)
Optical Connectors	User-replaceable FC, SC, ST, DIN, HMS-10/A class
Display/Memory	Three memories, three traces, split screen
Alias	MS9720A Standard Operating Conditions Perform wavelength calibration with the built-in reference optical source before quoting C-band accuracy. Allow warm-up per Anritsu guidance. Use SM fiber and clean connectors for accurate WDM spectral measurements.

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

Specifications

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Model	MS9720A
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Alias	MS9720A

Standard Operating Conditions

Perform wavelength calibration with the built-in reference optical source before quoting C-band accuracy. Allow warm-up per Anritsu guidance. Use SM fiber and clean connectors for accurate WDM spectral measurements.

Operational Notes

MS9720A is a WDM-band OSA (1450–1650 nm), not a full 600–1750 nm general-purpose unit like the MS9740A—do not interchange those wavelength ranges. Alias MS9720A.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.