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**Data Sheet**

August 13, 2026

ANRITSU

# Anritsu MS9710A – Optical Spectrum Analyzer

Anritsu MS9710A Optical Spectrum Analyzer The Anritsu MS9710A is a diffraction-grating optical spectrum analyzer covering 600 to 1750 nm for wavelength-domain characterization of optical sources and components. Published class specifications include wavelength accuracy about  $\pm 0.3$  nm, level range about -90 to +20 dBm, and dynamic range about 70 dB. It supports DWDM channel, SNR, PMD, and EDFA-related measurements with optional internal light sources and GPIB/parallel remote control. Successor instruments include MS9710B and later MS9740-class OSAs. The Anritsu MS9710A is a diffraction-grating optical spectrum analyzer covering 600 to 1750 nm for wavelength-domain characterization of optical sources and components. Published class specifications include wavelength accuracy about  $\pm 0.3$  nm, level range about -90 to +20 dBm, and dynamic range about 70 dB. It supports DWDM channel, SNR, PMD, and EDFA-related measurements with optional internal light sources and GPIB/parallel remote control. Successor instruments include MS9710B and later MS9740-class OSAs. DFB / FP / LED spectral characterization; EDFA gain and noise floor evaluation; optical filter and isolator transmission; PMD and DWDM channel analysis; lab and production OSA measurements 600-1750 nm.



|                                 |                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------|
| MODEL<br><b>Anritsu MS9710A</b> | CALIBRATION<br><b>Available on request</b>                                                                           |
| CONDITION<br><b>Used</b>        | STATUS<br><b>In stock</b>                                                                                            |
| RFQ / SKU<br><b>MS9710A</b>     | LISTING<br><a href="https://aumictechlabs.com/products/ms9710a-2/">https://aumictechlabs.com/products/ms9710a-2/</a> |

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**This unit**

The Anritsu MS9710A is a optical spectrum analyzer designed for spectral characterization across the 600 nm to 1750 nm wavelength range. Built on diffraction-grating technology, it delivers 0.5 nm resolution, 70 dB dynamic range, and -90 dBm minimum sensitivity, enabling precise measurement of light sources, passive optical components, and WDM systems including DWDM channel analysis up to 300 channels.

**Technical Specifications**

- Wavelength Range: 600 nm to 1750 nm
- Wavelength Accuracy:  $\pm 0.3$  nm ( $\pm 0.05$  nm with automatic calibration in 1.53–1.57  $\mu\text{m}$  range)
- Resolution: 0.5 nm (typical for dynamic range measurements)
- Dynamic Range: 70 dB
- Measurement Range: -90 dBm to 20 dBm
- Minimum Sensitivity: -90 dBm RMS noise level (1.25–1.6  $\mu\text{m}$  band)
- Polarization Dependency:  $\pm 0.05$  dB at 1.55  $\mu\text{m}$  band;  $\pm 0.1$  dB at 1.3  $\mu\text{m}$  band (0.5 nm resolution)
- Input Type: Fibered input

**Key Features**

- Automatic wavelength calibration for enhanced accuracy in the telecom C-band
- External trigger input for synchronized measurement of modulated and pulsed light
- Wavelength auto-calibration and tracking functionality
- Gate-time configuration for modulated/pulsed signal analysis
- OSNR measurement capability

**Typical Applications**

- Light source characterization (LEDs, Fabry-Perot LDs, DFB LDs)
- Loss wavelength characteristic measurement in optical devices and passive components (isolators, filters)
- WDM and DWDM system waveform analysis (up to 300 channels)
- Polarization Mode Dispersion (PMD) measurements
- EDFA noise figure and gain assessment
- Optical pulse, wavelength, power, and SNR measurements

**Compatibility & Integration**

- Monitor Output: VGA connector
- Data Transfer: IEEE 488 (GPIB) and RS-232C
- LabVIEW drivers available for both GPIB (MX971001G) and RS-232C (Z0283) interfaces
- Optional internal light sources: White Light Source (Option 02), Reference Wavelength Light Source (Option 05), SLD Light Source (Option 14), Wavelength Reference & SLD Light Source (Option 13)
- Optional Monitor Output (Option 06)

## Features & description

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From manufacturer datasheet

### Features

- Diffraction-grating OSA, 600 to 1750 nm

## MS9710A Characteristics / Specifications

| PARAMETER                   | VALUE                                                                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       | MS9710A                                                                                                                                                                                                                                                                                    |
| Manufacturer                | Anritsu                                                                                                                                                                                                                                                                                    |
| Instrument Type             | Optical Spectrum Analyzer (diffraction grating)                                                                                                                                                                                                                                            |
| Wavelength Range            | 600 to 1750 nm                                                                                                                                                                                                                                                                             |
| Wavelength Accuracy         | +/-0.3 nm (published class)                                                                                                                                                                                                                                                                |
| Level / Measurement Range   | -90 to +20 dBm class                                                                                                                                                                                                                                                                       |
| Dynamic Range               | 70 dB class                                                                                                                                                                                                                                                                                |
| Remote Interface            | IEEE-488 (GPIB) and parallel                                                                                                                                                                                                                                                               |
| Display Output              | VGA connector                                                                                                                                                                                                                                                                              |
| Connector Options APC Class | FC-APC (-25), SC-APC (-26), E2000 (-27), EC Radial (-31), HRL-10 (-47)                                                                                                                                                                                                                     |
| Connector Options PC Class  | FC (-37), ST (-38), DIN (-39), SC (-40), HMS-10/A (-43)                                                                                                                                                                                                                                    |
| Applications                | Optical pulse, wavelength, power level, SNR (DWDM), PMD, EDFA noise floor                                                                                                                                                                                                                  |
| Related Successor           | MS9710B (finer wavelength accuracy / updated UI class)                                                                                                                                                                                                                                     |
| Alias                       | MS9710A; Anritsu MS9710A                                                                                                                                                                                                                                                                   |
| Form                        | Benchtop diffraction-grating OSA                                                                                                                                                                                                                                                           |
| Use Domain                  | Telecom / photonic component spectral analysis Notes Specs from Anritsu MS9710A product/rental listings and option tables. For denser level accuracy and RBW rows, confirm against the unit's installed revision and the MS9710B family datasheet where A-specific tables are unavailable. |
| Application modes           | pulse, wavelength, power, SNR, PMD, EDFA NF                                                                                                                                                                                                                                                |

# MS9710A Specifications

| PARAMETER                                 | VALUE                                     |
|-------------------------------------------|-------------------------------------------|
| Anritsu MS9710A Optical Spectrum Analyzer | Overview                                  |
| Key Features                              | - Diffraction-grating OSA, 600 to 1750 nm |
| Technical Specifications                  | Model: MS9710A                            |

# 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 include wavelength accuracy about +/-0.3 nm, level range about -90 to +20 dBm, and dynamic range about 70 dB. It supports DWDM channel, SNR, PMD, and EDFA-related measurements with optional internal light sources and GPIB/parallel remote control. Successor instruments include MS9710B and later MS9740-class OSAs.

### Applications

DFB / FP / LED spectral characterization; EDFA gain and noise floor evaluation; optical filter and isolator transmission; PMD and DWDM channel analysis; lab and production OSA measurements 600-1750 nm.

### Key Features

- Diffraction-grating OSA, 600 to 1750 nm
- Level range about -90 to +20 dBm class
- Dynamic range about 70 dB class
- Wavelength accuracy about +/-0.3 nm class
- Optional internal light sources (white light / wavelength reference & SLD)
- GPIB and parallel interfaces; VGA output
- Application modes: pulse, wavelength, power, SNR, PMD, EDFA NF
- User-replaceable optical connector options (FC/SC/ST/DIN/APC class)

### Technical Specifications

#### Technical Specifications

| PARAMETER       | VALUE                                           |
|-----------------|-------------------------------------------------|
| Model           | MS9710A                                         |
| Manufacturer    | Anritsu                                         |
| Instrument Type | Optical Spectrum Analyzer (diffraction grating) |

#### Specifications

| PARAMETER                 | VALUE                       |
|---------------------------|-----------------------------|
| Wavelength Range          | 600 to 1750 nm              |
| Wavelength Accuracy       | +/-0.3 nm (published class) |
| Level / Measurement Range | -90 to +20 dBm class        |

#### Specifications

| PARAMETER        | VALUE                        |
|------------------|------------------------------|
| Dynamic Range    | 70 dB class                  |
| Remote Interface | IEEE-488 (GPIB) and parallel |
| Display Output   | VGA connector                |

Optional White Light Source: MS9710A-02

Specifications

| PARAMETER                   | VALUE                                                                     |
|-----------------------------|---------------------------------------------------------------------------|
| Connector Options APC Class | FC-APC (-25), SC-APC (-26), E2000 (-27), EC Radial (-31), HRL-10 (-47)    |
| Connector Options PC Class  | FC (-37), ST (-38), DIN (-39), SC (-40), HMS-10/A (-43)                   |
| Applications                | Optical pulse, wavelength, power level, SNR (DWDM), PMD, EDFA noise floor |

Specifications

| PARAMETER         | VALUE                                                  |
|-------------------|--------------------------------------------------------|
| Related Successor | MS9710B (finer wavelength accuracy / updated UI class) |
| Alias             | MS9710A; Anritsu MS9710A                               |
| Form              | Benchtop diffraction-grating OSA                       |

Use Domain: Telecom / photonic component spectral analysis

Notes

Specs from Anritsu MS9710A product/rental listings and option tables. For denser level accuracy and RBW rows, confirm against the unit's installed revision and the MS9710B family datasheet where A-specific tables are unavailable.

### Available from Aumictech

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

Request a quote: [sales@aumictech.com](mailto: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.