

ANRITSU

MS9740A

The Anritsu MS9740A is a benchtop optical spectrum analyzer designed for evaluating active and passive optical devices. Covering a wavelength range of 600 nm to 1750 nm, it offers high-speed measurements, completing sweeps and data transfers to external control equipment in under 0.2 seconds. It features a minimum resolution of 30 pm, supports both single-mode and multimode fibers, and provides a wide dynamic range, making it highly effective for manufacturing and component testing.

SPECIFICATIONS

General

Interfaces	6x USB, Ethernet, GPIB, VGA output
Display	8.4-inch

Physical

Power Supply	100-120 V / 200-240 V, 50/60 Hz, ≤75 VA
Operating Temperature	5 to 45 °C
Dimensions (W×H×D)	426 × 177 × 350 mm mm
Weight	15 kg max kg

Wavelength Characteristics

Wavelength Range	600 nm to 1750 nm
Minimum Wavelength Resolution	30 pm

Level Characteristics

Dynamic Range	58 dB (0.4 nm from peak wavelength)
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Sweep and Measurement Specifications

Sweep Time	< 0.2 s (5 nm span, passive optical devices)
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Optical Input

Applicable Fiber Type	Single Mode (SM) and Multi Mode (MM)
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Measurement Functions

Analysis Applications	Evaluation of active and passive optical devices
Calibration	Built-in wavelength calibration function

Interfaces and Storage

Data Export / Output	Built-in screen hard copy function
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Optical Performance

Wavelength Accuracy	±20 pm (1520 to 1620 nm)
Level Accuracy	±0.4 dB (1310 nm and 1550 nm)
Maximum Input Power	+23 dBm
Polarization Dependency	±0.05 dB (1550 / 1600 nm)
Optical Return Loss	>35 dB (with SM fiber)
Level Linearity	±0.05 dB (-50 to 0 dBm, 1550 nm)
Level Flatness	±0.1 dB (1520 to 1620 nm)

Environmental

Storage Temperature	-20 to +60 °C
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Measurement Parameters

Sweep Width (Span)	0 nm, 0.2 to 1200 nm
Data Points (Sampling)	51, 101, 251, 501, 1001, 2001, 5001, 10001, 20001, 50001
Level Scale	0.1 to 10 dB/div (Log), 1 to 100%/div (Linear)

Inputs & Outputs

Optical Connector	User replaceable (FC, SC, ST, DIN, or LC by option)
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Options & Accessories

Internal Reference Light Source	Wavelength reference source for calibration (requires Option 002)
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Power

Power Consumption	≤ 75 VA
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TECHNOLOGY

Optical Spectrum Analysis

APPLICATIONS

Active and Passive Optical Device Testing, Fiber Optics Manufacturing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.