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Data Sheet

August 1, 2026

HP

HP 70952B Optical Spectrum Analyzer 600-1700nm & 70004A mainframe ****CALIBRATED****

The HP 70952B is an optical spectrum analyzer with a wavelength range of 600-1700nm. It comes with a 70004A mainframe and is calibrated for accurate measurements. Ideal for analyzing optical signals in various applications.

**MODEL****HP 70952B /
70004A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****70952B / 70004A****LISTING**<https://aumictechlabs.com/products/70952b-70004a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP 70952B Optical Spectrum Analyzer is a precision instrument designed for detailed analysis of optical signals. It operates within a wavelength range of 600 to 1700 nm, making it suitable including telecommunications, fiber optic testing, and research. The included 70004A mainframe provides the necessary platform for operation. This unit has been calibrated to ensure accurate and reliable measurements.

Features & description

From manufacturer datasheet

Features

- Wavelength coverage 600 to 1700 nm • Minimum resolution bandwidth 0.08 nm (up to 10 nm) • Sensitivity to approximately -90 dBm (band dependent) • Fast sweeps: about 40 nm in 50 ms • Absolute wavelength accuracy +/-1 nm • Low polarization dependence in telecom bands • 4/8-width MMS module for 70004A or 70001A mainframe • Dedicated OSA keypad shipped with module • Optional programmable current source (001) and built-in white light source (002)

70952B70004A Characteristics / Specifications

PARAMETER	VALUE
Technical Specifications	70952B OSA Module
Model	70952B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	MMS color display / controller mainframe
System Designation with 70004A	71452B
Wavelength Range	600 to 1700 nm
Span	0.2 nm to full range and zero span
Absolute Wavelength Accuracy	+/-1 nm
Minimum Resolution Bandwidth	0.08 nm
Maximum Resolution Bandwidth	10 nm
Sensitivity (examples from family tables)	about -90 dBm (best bands); -60 to -80 dBm class in other bands
Dynamic Range (0.1 nm RBW examples)	about -50 to -60 dB class; Option 122 enhanced dynamic range available
Maximum Safe Input	about +30 dBm class (observe manual)
Optical Input	standard single-mode fiber (9 um class)
Sweep	continuously variable; real-time rates supported
Role	Hosts 70952B (and other 70000 modules); provides color CRT/display, softkeys, and system control
Compatible Alternate Host	70001A (monochrome / reduced color features) Common System Options 001 Programmable current source 002 Built-in white light source 031 DWDM component 122 Enhanced dynamic range 1CM Rack mount kit Standard Operating Conditions
Fast sweeps	about 40 nm in 50 ms
Bandwidth	of 0.08 nm and sensitivity to about -90 dBm in the best bands. Fast sweeps (about 40 nm in 50 ms; full range on the order of 500 ms) support production and R&D characterization of LEDs, Fabry-Perot and DFB lasers, amplifiers, and DWDM components.

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	
PARAMETER	VALUE
Specifications	70952B OSA Module
Model	70952B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Optical spectrum analyzer module (MMS)
System Designation with 70004A	71452B
Wavelength Range	600 to 1700 nm
Span	0.2 nm to full range and zero span
Absolute Wavelength Accuracy	+/-1 nm
Minimum Resolution Bandwidth	0.08 nm
Maximum Resolution Bandwidth	10 nm
Sensitivity (examples from family tables)	about -90 dBm (best bands); -60 to -80 dBm class in other bands
Dynamic Range (0.1 nm RBW examples)	about -50 to -60 dB class; Option 122 enhanced dynamic range available
Maximum Safe Input	about +30 dBm class (observe manual)
Optical Input	standard single-mode fiber (9 um class)
Sweep	continuously variable; real-time rates supported
Specifications	
PARAMETER	VALUE
Technical Specifications	70004A Mainframe
Model	70004A
Instrument Type	MMS color display / controller mainframe
Role	Hosts 70952B (and other 70000 modules); provides color CRT/display, softkeys, and system control
Compatible Alternate Host	70001A (monochrome / reduced color features)
Common System Options	
001 Programmable current source	
002 Built-in white light source	
031 DWDM component	

122 Enhanced dynamic range

1CM Rack mount kit

Standard Operating Conditions

Insert the 70952B into a powered-off 70004A (or approved MMS mainframe). Use clean FC/APC or system-specified connectors. Allow warm-up before absolute amplitude/wavelength accuracy claims. Omit sales wording such as CALIBRATED from product identity.

Operational Notes

The 70952B alone is a module and requires a 70004A (or 70001A) mainframe. Confirm Option 122 if enhanced dynamic range is claimed. Do not confuse 70950B / 70951B sibling OSA modules with 70952B wavelength coverage.

Ordering Information

OPTION	DESCRIPTION
Option 122	enhanced dynamic range available

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.