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Data Sheet

August 15, 2026

GN NETTEST/PHOTONETICS

Photonetics 3651 Walics Optical Spectrum Analyzer

Photonetics 3651HR12 Walics Optical Spectrum Analyzer The Photonetics 3651HR12 Walics is a high-resolution optical spectrum analyzer for C and L band WDM work. Published 3651HR12 specifications list 1450 nm to 1650 nm wavelength range, plus or minus 40 pm wavelength accuracy over a 120 nm span, resolution bandwidth 0.02 nm to 1 nm, and dynamic range 60 dB at plus or minus 0.1 nm and 80 dB at plus or minus 2 nm. WDM system waveform analysis, light source evaluation, and optical device loss versus wavelength characterization. The Photonetics 3651HR12 Walics is a high-resolution optical spectrum analyzer for C and L band WDM work. Published 3651HR12 specifications list 1450 nm to 1650 nm wavelength range, plus or minus 40 pm wavelength accuracy over a 120 nm span, resolution bandwidth 0.02 nm to 1 nm, and dynamic range 60 dB at plus or minus 0.1 nm and 80 dB at plus or minus 2 nm. WDM system waveform analysis, light source evaluation, and optical device loss versus wavelength characterization. Strong close-in dynamic range for WDM channels



MODEL

**GN
Nettest/Photonetics
3651HR12**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3651HR12

LISTING

<https://aumictechlabs.com/products/3651hr12-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GN Nettest/Photonetics 3651HR12 is a high-resolution optical spectrum analyzer designed for precise measurement and analysis of optical signals. It has high resolution and accuracy for characterizing lasers, LEDs, and other optical components. Its capabilities make it suitable for demanding applications in research, development, and manufacturing environments where detailed spectral analysis is required.

3651HR12 Characteristics / Specifications

PARAMETER	VALUE
Model	3651HR12
Instrument Type	optical spectrum analyzer
Family	Photonetics Walics 3651
Wavelength Range	1450 nm to 1650 nm
Wavelength Accuracy	plus or minus 40 pm over a 120 nm range
Resolution Bandwidth	0.02 nm to 1 nm
Dynamic Range At Plus Or Minus 0.1 Nm	60 dB
Dynamic Range At Plus Or Minus 2 Nm	80 dB
Optical Band Coverage	C band andLband class
Brand	Photonetics GN Nettest
Form Factor	benchtop OSA
Display	spectrum trace display class
Remote Interface Class	GPIB class on Walics platforms
Input Fiber Class	single mode
Connector Class	FC or SC optical input
Operating Temperature Class	laboratory ambient
Line Power	AC mains powered
Manufacturer	Photonetics
Also Marketed As	GN Nettest 3651
Resolution Modes	selectable RBW 0.02 to 1 nm
Use Case	WDM OSA
Amplitude Display Class	dBm optical power scale
Sweep	wavelength sweep OSA architecture
Calibration	wavelength calibrated OSA
Humidity Class	non condensing lab

PARAMETER	VALUE
Bandwidth	0.02 nm to 1 nm
Operating temperature	Class: laboratory ambient
Humidity	Class: non condensing lab

3651HR12 Specifications

PARAMETER	VALUE
Photonetics 3651HR12 Walics Optical Spectrum Analyzer	Overview
High resolution Walics OSA architecture	0.02 nm minimum resolution bandwidth
Technical Specifications	Model: 3651HR12

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory ambient
Operating Temperature	Class: laboratory ambient
Humidity	Class: non condensing lab
Operating Temperature Class	laboratory ambient
Line Power	AC mains powered
Manufacturer	Photonetics
Also Marketed As	GN Nettest 3651
Resolution Modes	selectable RBW 0.02 to 1 nm
Use Case	WDM OSA
Amplitude Display Class	dBm optical power scale
Sweep	wavelength sweep OSA architecture
Calibration	wavelength calibrated OSA
Humidity Class	non condensing lab Notes Numeric optical rows from published Photonetics 3651HR12 Walics OSA specification summaries. Confirm firmware and connector options on the unit label.

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 list 1450 nm to 1650 nm wavelength range, plus or minus 40 pm wavelength accuracy over a 120 nm span, resolution bandwidth 0.02 nm to 1 nm, and dynamic range 60 dB at plus or minus 0.1 nm and 80 dB at plus or minus 2 nm.

Applications
WDM system waveform analysis, light source evaluation, and optical device loss versus wavelength characterization.

Key Features
High resolution Walics OSA architecture
0.02 nm minimum resolution bandwidth
Wide 1450 to 1650 nm coverage
Strong close-in dynamic range for WDM channels
Suitable forCandLband DWDM labs

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	3651HR12
Instrument Type	optical spectrum analyzer
Family	Photonetics Walics 3651
Wavelength Range	1450 nm to 1650 nm
Wavelength Accuracy	plus or minus 40 pm over a 120 nm range
Resolution Bandwidth	0.02 nm to 1 nm

Dynamic Range At Plus Or Minus 0.1 Nm: 60 dB

Dynamic Range At Plus Or Minus 2 Nm: 80 dB

Specifications

PARAMETER	VALUE
Optical Band Coverage	C band andLband class
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Calibration	wavelength calibrated OSA
Humidity Class	non condensing lab

Notes

Numeric optical rows from published Photonetics 3651HR12 Walics OSA specification summaries. Confirm firmware and connector options on the unit label.

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.