Agilent Handhelds

N3970A Optical Power Meter
N3974A Dual Laser Source
N3977A Automated Optical Attenuator

- Extensive Functionality
- Robust Construction
- Ergonomic Design

Tools for Technicians in the Palm of your Hand

Agilent Technologies

Built-in Usability

Naturally, Agilent's new high-performance precision handhelds meet the specifications required to install, commission or maintain optical fiber networks. But, more importantly, they offer features that make a difference in how efficiently and effectively you take the necessary measurements:

- Easy access to frequent functions, and a concealed keypad for more demanding applications.
- Storing results for detailed, off-line examination.
- Remote control for the optimal deployment of personnel.
- Pre-programming different set ups.
- Long battery life to minimize the disturbance to field trips.

Tuned-in Operation

For continuity or loss testing, or for fiber identification, the N3970A Power Meter and the N3974A Dual Laser Source use a common Autotest capability to work together and ease your measurement procedures.
Of course, both devices work independently too, for use in existing test setups or for transmitter testing.

N3970A Optical Power Meter

The N3970A Optical Power Meter is simple to use and has a fast response time with no warm up period. Automatic wavelength identification is possible when used with an Autotest compatible light source, letting you measure at both 1310nm and 1550nm with a single push of a button.
The power meter also features an audible signal for fiber identification, and an RS232 port for connection to a PC or laptop for remote control, data logging or merging, and reporting and printing using the Loss Test Companion Software.

Wavelength	850 nm to 1650 nm InGaAs detector
Dynamic Range	+5 dBm to –70 dBm
Uncertainty[1]	±3 %
Adapters Supplied	FC, SC, ST (dust and drop protected)
Memory	845 locations
Battery life	Up to 240 hours

N3974A Dual Laser Source

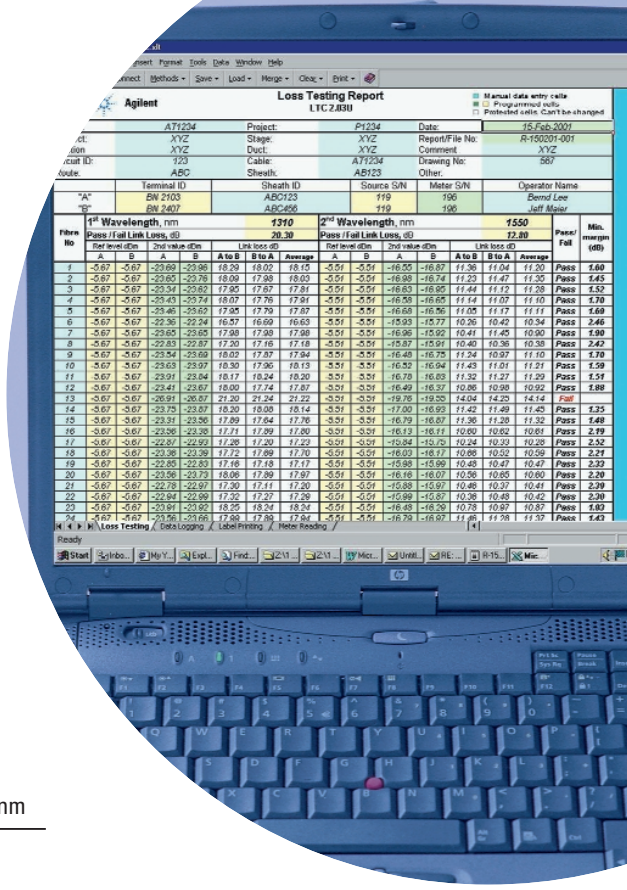
The N3974A Dual Laser Source guarantees ultra-high stability, even without a warm-up period. The dual wavelength source provides switched wavelength through a single connector.
The source also works with the Loss Test Companion Software for automated and remote loss tests.

Wavelength	1310 nm and 1550 nm Fabry Perot Laser
Output Power	-5 dBm (typical)
Adjustments	6 dB in 0.01 dB steps
Stability	±0.15 dB over 8 hrs
Adapters Supplied	FC, SC, ST (dust and drop protected)
Battery life	Up to 140 hours

Added-in Convenience

The Loss Test Companion Software

The Loss Test Companion software is an easy-to-use Microsoft® Excel-based professional software tool, especially designed for fast two-way averaging and customized reporting.



Programmed-in Flexibility

N3977A Automated Optical Attenuator

The N3977A Automated Optical Attenuator can be used in manual, relative, step and program mode. Program mode provides memory for 15 different pre-sets for easy recall or use by unskilled personnel. To ensure ultimate linearity and accuracy over the full dynamic range, the unit is calibrated at every attenuation position in 0.05 dB increments.

Wavelength	1200 nm to 1600 nm
Attenuation Range	2.5 to 60 dB
Power Handling	up to +23 dBm
Repeatabilty	Calibrated every ±0.03 dB
Insertion Loss[3]	<2.5 dB
Return Loss	better than –40 dB
Adapters Supplied	FC, SC, ST (dust and drop protected)
Memory	15 programs
Battery life	200 to 600 hours

Handy Accessories

A carry case is also available to fit any two of the instruments, though it is primarily intended for use with a power meter and a dual source to make up a portable loss test set. The N3979A AC/DC Adapter can be used with any of the instruments to preserve the battery-life[3].

[1] At reference conditions.
[2] The AC/DC adapter is not available in: Australia, Korea, Japan and Mexico.
[3] At low position

Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: „Our Promise" and „Your Advantage."

Our Promise
Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage
Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

Related Agilent Literature

Agilent Handhelds
N3970A Optical Power Meter,
N3974A Dual Laser Source,
N3977A Automated Optical Attenuator
Technical Specifications
P/N 5988-1067EN

Agilent E6000C Mini-OTDR
and E6091A Toolkit II Plus
Product Brochure
P/N 5988-2238EN

Agilent E6020A Fiber Break Locator
Product Brochure
P/N 5988-2237EN

Cleaning Procedures for Lightwave
Test and Measurement Equipment
Pocket Guide
P/N 5963-3538F

By internet, phone, or fax, get assistance with all your test & measurement needs

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Laser Safety Information
In the USA, all laser sources are specified by this data sheet are classified as Class I according to 21 CFR 1040.10 (1999).
Internationally, the same laser sources are classified as Class 1 according to IEC 60825-1 (1998).

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