



### Features

- Multimode or single-mode applications
- Wave ID (auto identification/switching)
- Multiple-wavelength testing
- 270 Hz, 330 Hz, 1 kHz, 2 kHz tone detection
- Large LCD with backlight
- Power measurements in dBm or  $\mu$ W; insertion loss in dB
- Reference power level storage
- File management system organizes stored test data
- Storage capability > 500 fibers
- USB port and Windows® compatible software for download of stored data
- Automatic power-off function
- Battery gauge
- Long battery life with 2 x AA alkaline, optional AC adapter
- Hand-held, rugged, lightweight

## **NOYES®** **OPM5 Optical Power Meter**

### **With Innovative File Management System**

The new NOYES OPM5 is a full-featured, hand-held optical power meter designed for measuring optical power in premise, Telco, or broadband networks and for performing insertion loss measurements on multimode or single-mode fiber optic links. The standard Wave ID feature (when used with NOYES OLS series light sources) automatically detects and sets the wavelength(s), preventing setup and measurement errors. It significantly increases efficiency and reduces technician errors—and saves testing time—by eliminating the need to test each wavelength individually. The OPM5 stores optical references for each calibrated wavelength and offers multiple test tone detection for fiber identification. The OPM5 is fully N.I.S.T. traceable.

### **Data Storage of Test Results**

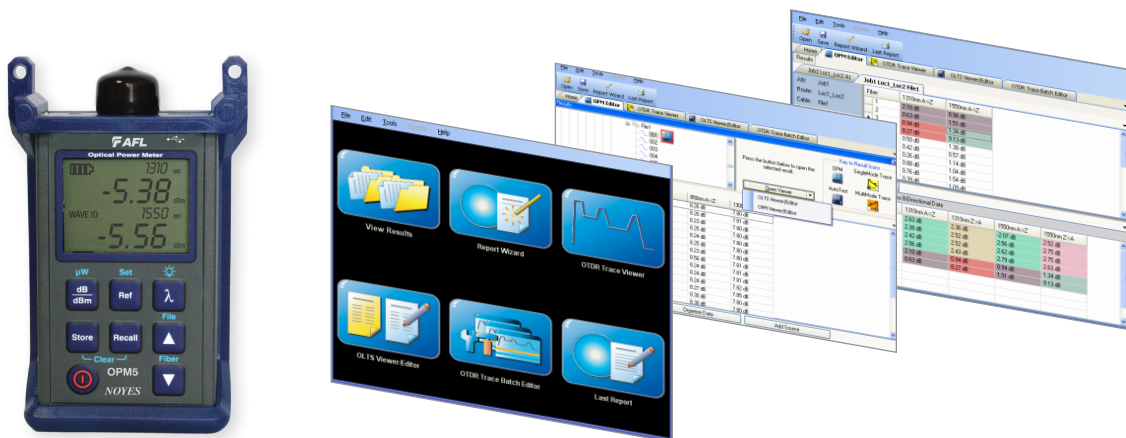
The OPM5 File Management system allows technicians to organize test results into multiple files and transfer stored results via USB to a PC for analyzing, generating reports, and printing. The supplied powerful PC Analysis and Reporting Tool (TRM™ - Test Results Management software) allows users to apply industry standards based rules to test results and create comprehensive certification reports. Users can generate network Pass/Fail results demonstrating compliance to industry standards and illustrate headroom. TRM is a Windows® compatible software

### **Applications**

- Passive Optical Networks (PON) testing
- Save test data for Report Generation with NOYES TRM Software
- OPM5-2D (Ge) for Premises LAN/WAN multimode or single-mode networks
- OPM5-3D (InGaAs) for Telecommunications networks
- OPM5-4D (Filtered-InGaAs) for high power (+26 dBm) CATV Broadband networks or DWDM system applications

**NOYES®**

### OPM5 Optical Power Meter with PC Reporting Tool – TRM™



#### Powerful Pair

The OPM5 Optical Power Meter and TRM Test Results Management software is a powerful pair

- Increases efficiency
- Reduces technician errors
- Simple to operate with minimal training required
- Provides customized professional reports

#### Target Markets

Any one testing fiber links who requires report generation applications include

- Data networks
- Telecommunications providers
- CATV
- Industrial

#### WaveID Increases Efficiency and Reduces Errors

- Enables users to test two wavelengths simultaneously
  - Significantly reduces test time by eliminating the need to test each wavelength individually
- Automatically detects and sets received wavelengths
  - Eliminates loss measurement errors by automatically matching OPM to transmitted wavelength

#### Straightforward Results Storage and Easy File Management in the Field

- Simple to use interface allows for easy separation of results into files
- Keep cable/job results separated for fast customer report generation
- Access to files and results allows for quick and easy retest of fibers

### NOYES®

## Upload test data files to PC via USB to utilize powerful data management and reporting tool – TRM™

### File Naming and Data Management Editor

- Manage job information (Ends, Cable ID, Comments, and Operators) to meet documentation specifications in reports
- Create Bi-directional results
- Combine results from multiple OPMs to create a complete job report
- Automatic backup of data

### Create Certification Results to Industry Standards (TIA/ISO/EN and applications)

- Apply standards based rules to loss results
- Generate Pass/Fail information for each fiber
- Demonstrate compliance to industry standards

### Customized Reports

- Create professional personalized reports with company logos
- Reports meet accepted industry documentation standards.
- Save common report options for quick generation of future reports
- Recall previously stored settings to save time generating reports for repeat customers
- Create certification reports showing fiber pass/fail results based on customer/consultant specifications, Industry Standard, and Industry Applications
- Show headroom values for the primary rule (typically the industry standard)
- Use PC analysis to verify if previously measured fibers (tested with NOYES loss test equipment) meet loss requirements of Standards and Rules

### Superior Customer Support

- Dedicated customer service, technical support and field sales available to support customers
- Knowledgeable timely technical support and customer service

The screenshot displays the NOYES TRM software interface. On the left, a sidebar shows job details for 'Job1 Loc1\_Loc2 File1'. The main area is divided into several sections:

- Fiber Test Results:** A table showing loss results for 13 fibers. Columns include Fiber ID, 1310nm A->Z, 1550nm A->Z, and 1550nm Z->A. Values range from 2.07 dB to 2.75 dB.
- Organize Data:** A button to manage the data.
- Certification Results:** A section showing the number of connections (2) and length limit (2000 Meters). It includes a table with columns for Date of Test, Time, Fiber #, Loss (dB), Length (m), and Pass/Fail status.
- Report Header:** Includes company logos for TESLA MOTORS and MANCHESTER UNIV, and a green checkmark indicating a successful test.

The certification report table shows the following data:

Date of Test	Time	Fiber #	Loss (dB)	Length (m)	Pass/Fail
Jul 27, 2009	3:35 PM	1	2.07	554.63	Pass
Jul 27, 2009	3:38 PM	2	2.42	554.63	Pass
Jul 27, 2009	3:38 PM	3	2.52	554.12	Pass
Jul 27, 2009	3:37 PM	4	2.52	554.12	Pass
Jul 27, 2009	3:38 PM	5	2.63	554.37	Pass
Jul 27, 2009	3:38 PM	6	2.72	554.37	Pass

## NOYES® OPM5 Optical Power Meter

### Specifications <sup>a</sup>

OPTICAL	OPM5-2D	OPM5-3D	OPM5-4D
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550 nm	850, 1300, 1310, 1550, 1490, 1625 nm	850, 980, 1300, 1310, 1490, 1550, 1625 nm
Detector Type	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement Range	+6 to -60 dBm	+10 to -75 dBm	+26 to -50 dBm
Tone Detect Range	+6 to -50 dBm +6 to -45 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -30 dBm +6 to -25 dBm for 850 nm
Wavelength ID Range	+6 to -50 dBm +6 to -45 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -30 dBm +6 to -25 dBm for 850 nm
Accuracy <sup>b</sup>	±0.25 dB		
Resolution	0.01 dB		
Measurement Units	dB, dBm, µW		
GENERAL			
Power	2 x AA batteries, optional AC adapter		
Battery Life	300 hours		
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)		
Storage Temperature	-30 °C to 60°C, 90 % RH (non-condensing)		
Size (H x W x D)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)		
Weight	0.26 kg (0.58 lb)		

### Notes:

- a. All specifications valid at 25 °C unless otherwise specified.
- b. Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.

### Ordering Information

INCLUDES	AFL NO.
OPM5 optical power meter, 2 x AA batteries, protective rubber boot, USB cable, Windows® compatible software, and carry case.	All OPM5 models



### Authorized Channel Partner

**NOYES®**

United States  
Customer Service  
1.800.321.5298  
1.603.528.7780  
www.AFLglobal.com

Europe, Middle East, Africa  
Max Penfold  
Max.Penfold@AFLglobal.com  
+44 1799 542 840  
+44 7802 839 160

Middle East  
Ahmed El Sakaty  
Ahmed.ElSakaty@AFLglobal.com  
+20 106 451 523

Africa (Sub Sahara)  
Nicholas Cole  
Nicholas.Cole@AFLglobal.com  
+44 7702 005 590

Greater China  
Dai Liu  
Dai.Liu@AFLglobal.com  
+86 133 1101 4533

Asia-Pacific (non-China)  
Saw Biing Huei  
Biing.Saw@AFLglobal.com  
+65 9791 3398