

# OptoLAN MI 5100



- Measures Insertion loss and Optical power
- Powermeter PM420 supports six wavelengths (MM- Multimode and SM- Singlemode).
- Small size and weight, very low power consumption
- USB communication port.
- Built in battery charger.
- OptoLAN MI5100 forms together with MultiLAN350 a complete and cost effective solution for verification of fiber and copper LANs.
- Downloads data directly to LANlink PCSW package for creation of professional test reports.
- Automatic wavelength detection on powermeter- no manual selection is needed.
- "LAN" and "Standard" operating modes\*

\*"LAN" operating mode is intended for verification of fiber optic parts of LANs. Test results can be compared against limits defined in LAN standards (all popular LAN standards are included). Limits are defined on base of entered fiber link data (cable type, standard, length etc). Memory organization is suited to duplex fiber cables that are usually used in LANs.

Data from latest versions of standards can be easily upgraded via the USB port. "Normal" operating mode is intended for fast troubleshooting and spot testing. LAN operating mode is enabled in Powermeter PM 420 LAN.

## Suitable for:

- Testing fiber Link performance
- Verification of fiber networks
- Troubleshooting, fast checks of fibers, connections etc.

## Standards applied:

### MM LAN cabling and application standards:

- TIA/EIA 568A horizontal/backbone
- ISO 11801 Channel/Link
- EN 50173 Channel/Link
- 10Base/100Base/1000Base series

### Measurements standards:

- ANSI/TIA/EIA -526 -14A
- EN 61280 - 4 - 2

### Safety standards:

- IECIEN 611010 - 1
- IEC 60825 - 1

## Ordering information

	OptoLAN MI5100 PS	OptoLAN MI5100 ST
Optical power Meter	PM420LAN	PM420
Optical Light Source LS420	✓	✓
Visible pen VSP - 01	✓	✓
Patch cord FC - ST 50 μm	✓	✓
Patch cord FC - SC 50 μm	✓	✓
Patch cord ST - SC 50 μm	✓	✓
Patch cord FC - ST 62.5 μm	✓	✓
Patch cord FC - SC 62.5 μm	✓	✓
Patch cord ST - SC 62.5 μm	✓	✓
SC adapter	✓	✓
ST adapter	✓	✓
Multi LAN 350 IR fiber adapter FOA- 1 (A1186)	✓	✓
PCSW package LANlink (on CD)	✓	✓
USB cable	✓	✓
NiMH batteries 2x2 pcs, size AA	✓	✓
Power supply adapter 2 psc	✓	✓
User Manual booklet	✓	✓
Carrying bag	✓	✓
Calibration Certificate from Accredited Calibration Laboratory	✓	✓
Product Verification Data	✓	✓

Pro set Part No. **Opto LAN MI 5100 PS**



### Optional accessories



#### Part No.

**A 1185** - Optical Light Source LS420 SM with Patch cord (3 pcs) for SM - single mode

**A 1184** - Illuminated microscope

**A 1187** - Multimode Fiber mandrels (2 pcs)

## Technical specifications

Measurement		Note
Photodetector	1 mm InGaAs	
Working wavelengths	850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 (1650) nm	can be customized
Accuracy	±5 %	accuracy is defined at -20dBm
Resolution	0.01 dB, 0.01 dBm	
Dynamic range		
CW mode	-60 dBm to +10 dBm	1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm
	-53 dBm to +17 dBm	850 nm
AWD mode	-47dBm	1300 nm - 1625 nm
	-40dBm	850 nm

## General specifications

Display	LCD graphic with back light	
No. of memory locations	512	
Dimensions	24 mm x 79 mm x 130mm	with 2.5 mm universal adapter
Weight	124 g	without batteries
Operating temperature range	0 °C to +40 °C	intrinsic accuracy is specified at 25 °C
Storage temperature range	-10 °C - 70 °C	
Relative humidity	85 % up to 40 °C declining to 70 % at 45 °C, non condensing	
Power supply	2 x NiMH type AA rechargeable batteries	
Battery working time	> 40 hr without backlight	
Communication	USB, IrDA	
Power supply adapter	3 VDC, 200 mA	



#### Part No.

**A 1189** - Dry cleaning set

**A 1188** - Wet cleaning tools with carrying bag

