



Ascentac OLM300 Series, Optical Loss Meter, combines optical light source (OLS), optical power meter (OPM) and visual fault locator (VFL) in one handheld unit which can conveniently perform optical power & link loss measurement and troubleshooting of fiber-optic network. It is a perfect instrument for bi-directional testing for both multi-mode and single-mode fibers.

Optical Loss Meter

Ascentac OLM 300

OLS, OPM & VFL in One Unit and Innovative Macro-bending Detection

Feature

- Auto-wavelength recognition and remote wavelength-switching
- Automatically bidirectional loss test
- Readable remote measurement values
- Analysis of cable status e.g. Bending (Displayed on screen)
- Document results and generate reports to PC via USB connection
- Memory capacity of 1000 results
- Auto shutdown & backlight sleep mode (Programmable) (Extend the battery life)

Application

- Optical loss measurement

Description

Ascentac OLM300 Series characterizes remote wavelength-switching and enables technicians to read remote measurement values. The fairly better feature is to analyze cable status like macro-bending or low power and notify technicians of the condition on screen.

Ascentac OLM300 Series can accommodate up to 1000 results and transfer data to PC via USB connection. It is battery-operated by either dry batteries or rechargeable batteries (4 AAA-size).

Appearance

- 1 2.4 inch ultra-bright TFT color LCD with backlight function (Comfortable and easy to read display for darker operation)
- 2 Pass/fail results with LED indicator (User-settable thresholds)
- 3 Hole to attach strap for hands-free
- 4 Interchangeable adapters for superior flexibility (OPM interface)



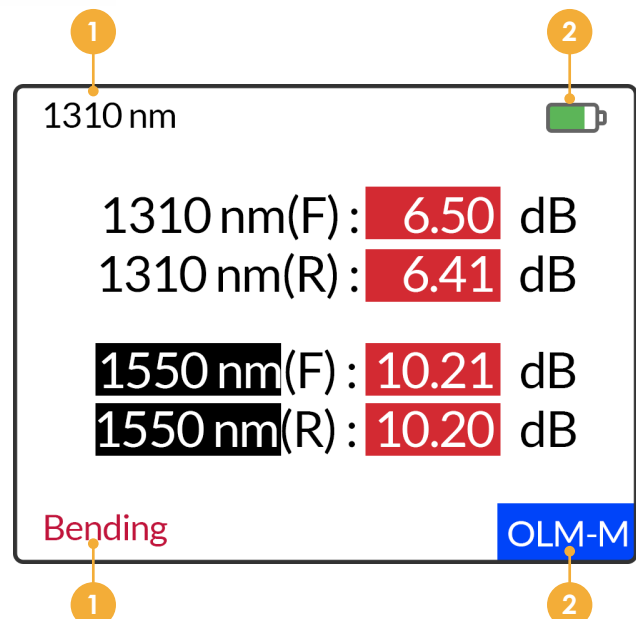
Removable adapters for easy cleaning

- 5 Dust cap for protecting optical interface plus as a stand for hands-free
- 6 Menu-oriented operation for easy use
- 7 4 AAA-size dry batteries (Easily obtained) or rechargeable batteries charged by USB (Reduce the operational cost)



Measurement Display

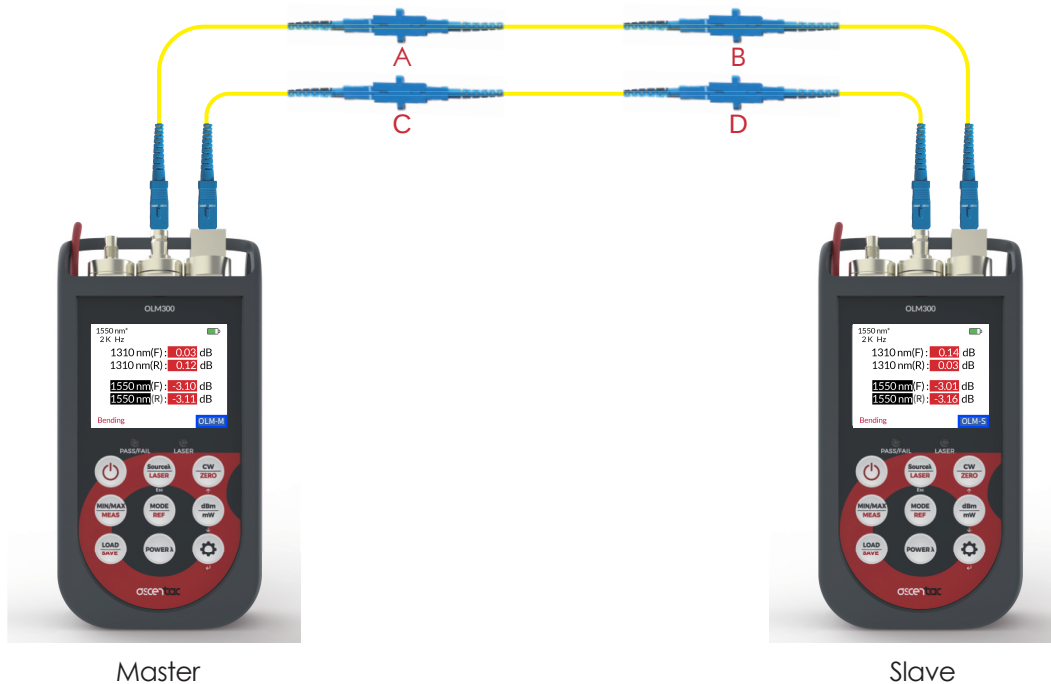
- 1 Wavelength
- 2 Battery status (Low battery indicator to remind users of replacing batteries)
- 3 Alarm indicator
- 4 Function mode
 - OPM: Optical Power Meter
 - OLS: Optical Light Source
 - OLM-M: Optical Loss Meter - Master
 - OLM-S: Optical Loss Meter - Slave



When to Use OLM300

Optical Loss Measurement

Bi-directional testing in the A-B & D-C direction



When to Use Built-in VFL in OLM300

1. Fiber identification & End-to-end continuity tests

2. Troubleshooting

Red illumination indicating fiber damages, bends or breaks

- Fiber connector not properly attached
- Broken fibers inside
- Bending

Specification

OPM Specification

Power Range (dBm)	Two ports (Note 1): +6 to -70 or +26 to -50 One port (Note 2): +9 to -65 or +26 to -45
Detector	InGaAs
Uncertainty (dB)	$\leq \pm 5\%$ or $\leq \pm 0.25$ dB (@-10dBm or -20dBm)
Linearity (dB)	$\leq \pm 0.1$
Resolution (dB)	$\leq \pm 0.01$
Wavelength Range (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Optical Connector	Two ports (Note 1): Interchangeable FC / SC / LC / Universal 2.5mm / Universal 1.25mm adapter (Option) One port (Note 2): Built-in universal 2.5mm tip sleeve Option: 2.5mm universal connector male to FC / SC / LC female adapter

OLS Specification

Central Wavelength (nm)	850 (± 30)	1300 (± 50)	1310 (± 20)	1490 (± 20)	1550 (± 20)	1625 (± 5)
Spectral Width (nm)	≤ 5					
Output Power (dBm)	Two ports (Note 1): ≥ -4 One port (Note 2): ≥ -7					
Stability (dB)	± 0.05 (15 mins, short term) ± 0.2 (8 hours, long term)					
Modulation Output	CW(Continuous Wavelength), 270Hz, 1kHz, 2kHz					
Optical Connector	Both two ports (Note 1) & One port (Note 2) Built-in universal 2.5mm tip sleeve Option: 2.5mm universal connector male to FC / SC / LC female adapter					

VFL Specification(Optional)

Wavelength (nm)	650 ± 10 (Visible)
Output Power (mW)	1, 10, 30 or 50 (Option)
Modulation Output	CW(Continuous Wavelength), 1Hz, 2Hz
Distance (km)	> 5
Optical Connector	Universal 2.5mm

Display

2.4 inch ultra-bright TFT color LCD with backlight function

Power Supply

1. Dry batteries or rechargeable NiMH batteries (Charged by USB connection): AAA-size x 4
2. AC Input: 100-240VAC / 50-60 Hz

Battery Life (hours) (with backlight-LOW) (OPM mode)	> 25
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Environment

Working Temperature (°C)	-10 to +60
Storage Temperature (°C)	-30 to +70
Relative Humidity (%)	5 to 95, Non-condensing

Memory

Record Storage	1000 results
Data Output	USB interface

Dimensions and Weight

Size (H x W x D) (mm)	150 x 75 x 30
Weight (g) (batteries included)	Approximately 250

Standard Accessories

Main unit, AAA Battery 4pcs, Carrying bag, Shoulder strap, One-year warranty

國際認證



Note :

1. Two ports: One port for OLS & one port for OPM
2. One port: OLS & OPM combined in one port

Ordering Information

OLM 01-0 X 3 XX + A0-001 XX

Model

A : Two ports, one port for OLS & one port for OPM
B : One port, OLS & OPM combined in one port

OLS Central Wavelength & OPM Power Range

01 to 07 & 41 to 47 are available for Model A
21 to 27 & 61 to 67 are available for Model B

01: 850nm & 1300nm, +6dBm to -70dBm
02: 1310nm & 1490nm, +6dBm to -70dBm
03: 1310nm & 1550nm, +6dBm to -70dBm
04: 1310nm & 1625nm, +6dBm to -70dBm
05: 1490nm & 1550nm, +6dBm to -70dBm
06: 1490nm & 1625nm, +6dBm to -70dBm
07: 1550nm & 1625nm, +6dBm to -70dBm

21: 850nm & 1300nm, +9dBm to -65dBm
22: 1310nm & 1490nm, +9dBm to -65dBm
23: 1310nm & 1550nm, +9dBm to -65dBm
24: 1310nm & 1625nm, +9dBm to -65dBm
25: 1490nm & 1550nm, +9dBm to -65dBm
26: 1490nm & 1625nm, +9dBm to -65dBm
27: 1550nm & 1625nm, +9dBm to -65dBm

41: 850nm & 1300nm, +26dBm to -50dBm
42: 1310nm & 1490nm, +26dBm to -50dBm
43: 1310nm & 1550nm, +26dBm to -50dBm
44: 1310nm & 1625nm, +26dBm to -50dBm
45: 1490nm & 1550nm, +26dBm to -50dBm
46: 1490nm & 1625nm, +26dBm to -50dBm
47: 1550nm & 1625nm, +26dBm to -50dBm

61: 850nm & 1310nm, +26dBm to -45dBm
62: 1310nm & 1490nm, +26dBm to -45dBm
63: 1310nm & 1550nm, +26dBm to -45dBm
64: 1310nm & 1625nm, +26dBm to -45dBm
65: 1490nm & 1550nm, +26dBm to -45dBm
66: 1490nm & 1625nm, +26dBm to -45dBm
67: 1550nm & 1625nm, +26dBm to -45dBm

Adapter for Model A OPM

01: Interchangeable FC adapter
02: Interchangeable SC adapter
03: Interchangeable LC adapter
04: Interchangeable universal 2.5mm adapter
05: Interchangeable universal 1.25mm adapter

* Model A OLS port: Built-in universal 2.5mm tip sleeve
* Model B single port: Built-in universal 2.5mm tip sleeve

Option

Visual Function Locator (VFL)

A1-01104	1mW, Built-in Universal 2.5mm Tip Sleeve
A1-01204	10mW, Built-in Universal 2.5mm Tip Sleeve
A1-01304	30mW, Built-in Universal 2.5mm Tip Sleeve
A1-01404	50mW, Built-in Universal 2.5mm Tip Sleeve

Adaptor for Model A OLS Port or Model B Single Port

A0-00121	2.5mm Universal Connector Male to FC Female Adapter
A0-00122	2.5mm Universal Connector Male to SC Female Adapter
A0-00123	2.5mm Universal Connector Male to LC Female Adapter

Adaptor for Model A OPM Port

A0-00101	Interchangeable FC Adapter
A0-00102	Interchangeable SC Adapter
A0-00103	Interchangeable LC Adapter
A0-00104	Interchangeable Universal 2.5mm Adapter
A0-00105	Interchangeable Universal 1.25mm Adapter

USB Power Adapter

A0-00201	USB Power Adapter, US Plug
A0-00202	USB Power Adapter, EU Plug
A0-00203	USB Power Adapter, UK Plug
A0-00204	USB Power Adapter, AU Plug

USB Cable

A0-00301	Micro USB to USB-A
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Fiber-optic Patch Cord

A0-00601	Single Mode 9/125--SC/UPC to SC/UPC--2m
A0-00602	Single Mode 9/125--SC/UPC to LC/UPC--2m
A0-00603	Single Mode 9/125--SC/UPC to ST/UPC--2m
A0-00604	Single Mode 9/125--SC/APC to SC/UPC--2m
A0-00605	Single Mode 9/125--SC/APC to LC/UPC--2m
A0-00606	Single Mode 9/125--SC/APC to SC/APC--2m
A0-00607	Single Mode 9/125--FC/UPC to FC/UPC--2m

Adapter Cleaning Sticks - 100 pcs/box

02-0A110	1.25mm without ESD (Electro-Static Discharge)
02-0A120	2.5mm without ESD (Electro-Static Discharge)
02-0B110	1.25mm with ESD (Electro-Static Discharge)
02-0B120	2.5mm with ESD (Electro-Static Discharge)

Fiber Cleaner - 400 wipes/pc

02-00411	Reusable Fiber Cleaner--1 slot
02-00412	Reusable Fiber Cleaner--2 slots
02-00421	Cartridge--1 slot
02-00422	Cartridge--2 slots

Replacement Parts

A0-00001	Battery Cover Cap
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Example : OLM 01-0A301 + A0-00101

Option: A1-01104、A0-00121、A0-00101、A0-00201、A0-00301



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