

Ascentac

Optical Multi Meter

Ascentac OMM300



An Integrated Handheld Fiber Optic Test Tool with OPM, OLS & VFL

Ascentac OMM300 Series, Optical Multi Meter, combines optical light source (OLS), optical power meter (OPM) and visual fault locator (VFL) in one handheld unit. It's available to test for both Multi-mode and single mode fibers.

Ascentac OMM300 Series can be used to measure the power in an optical signal. It also provides stable output light with two different wavelength options.

Ascentac OMM300 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).

Benefits

- Data transfer from a PC via USB
- Memory capacity of 1000 results
- Auto shutdown & backlight sleep mode (Programmable) (Extend the battery life)

Application

- Optical power or loss measurement in telecom or CATV installation and maintenance

Description

- ① 2.4 inch ultra-bright TFT color LCD with backlight function (Comfortable and easy to read display for darker operation)
- ② Dust cap for protecting optical interface plus as a stand for hands-free
- ③ Built-in universal 2.5mm tip sleeve
Option: 2.5mm universal connector male to FC / SC / LC female adapter

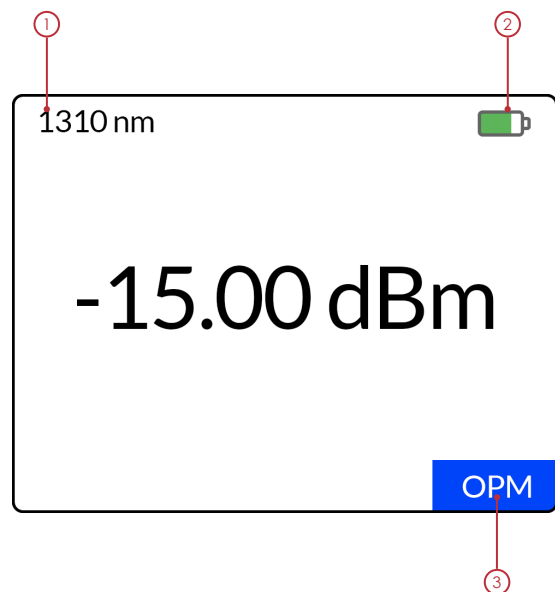


- ④ Hole to attach strap for hands-free
- ⑤ Menu-oriented operation for easy use
- ⑥ 4 AAA-size dry batteries (Easily obtained) or rechargeable batteries charged by USB (Reduce the operational cost)



Measurement Display

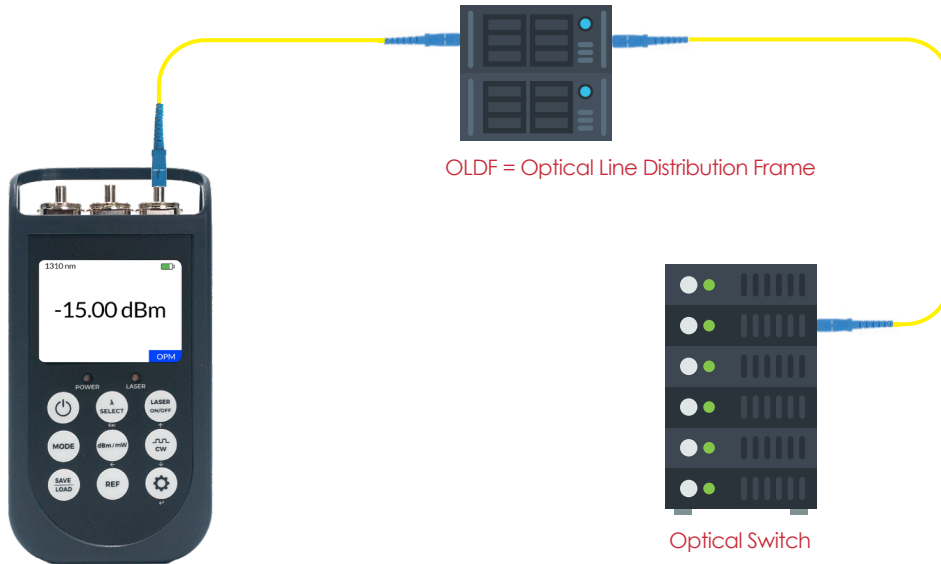
- ① Wavelength
- ② Battery status (Low battery indicator to remind users of replacing batteries)
- ③ Function mode
 - OPM: Optical Power Meter
 - OLS: Optical Light Source



When to Use OMM300

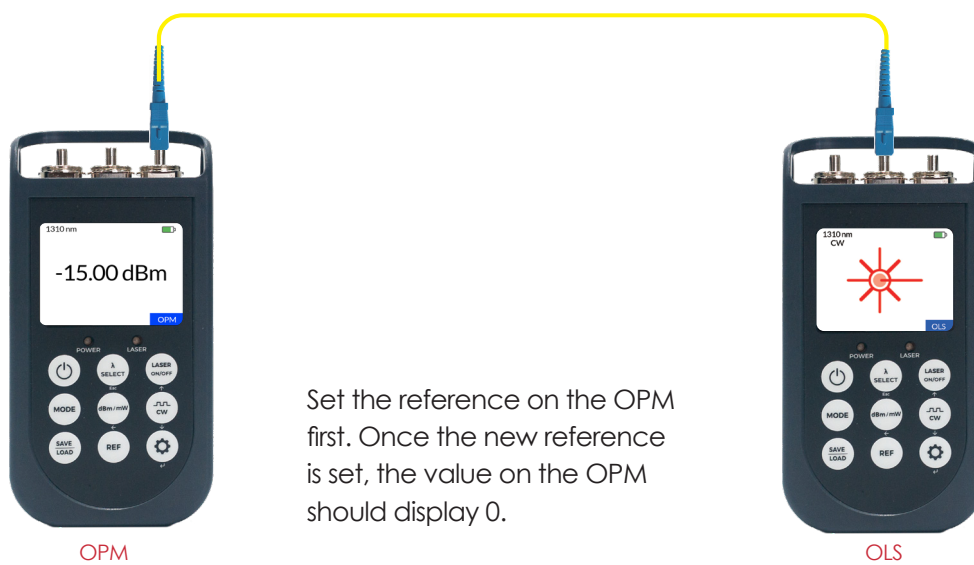
1. Optical Power Measurement

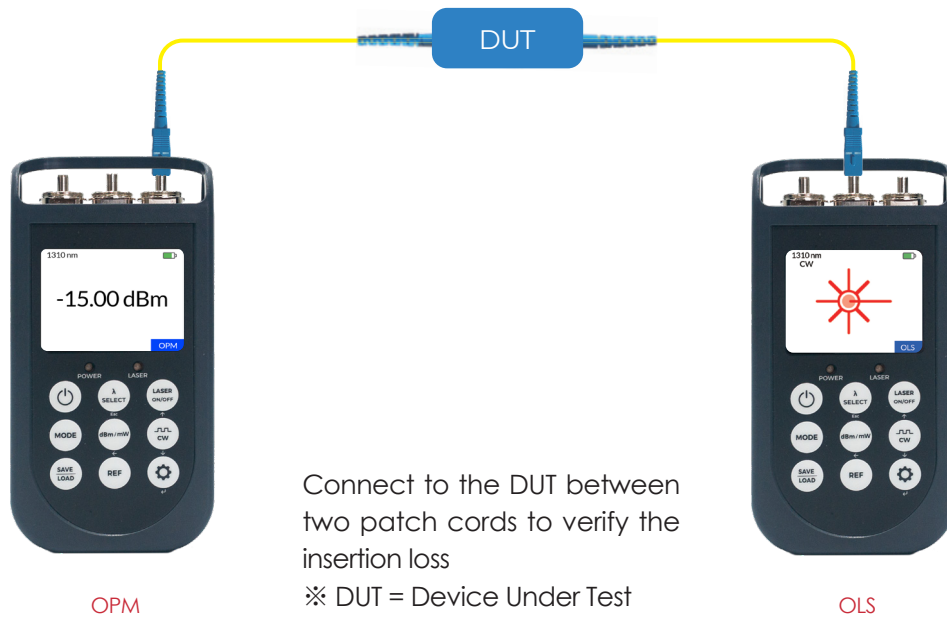
Connect one end of the patch cord to the adapter cap and the other end to the optical output to be measured.



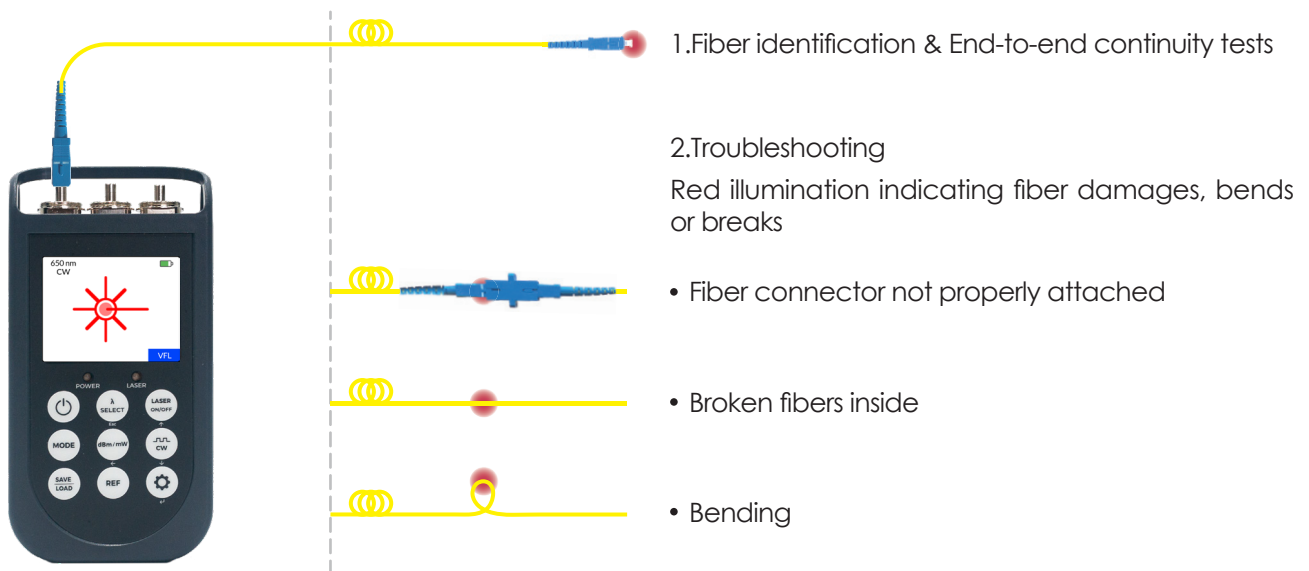
2. Optical Loss Measurement

Performing with OLS to measure optical power to calculate optical loss






When to Use Built-in VFL in OMM300



Specification

OPM Specification		
Power Range (dBm)	+26 to -50	+6 to -70
Detector	InGaAs	
Uncertainty (dB)	≤ ±5 % or ≤ ±0.25 dB (@-10dBm or -20dBm)	
Linearity (dB)	≤ ± 0.1	
Resolution (dB)	≤ ± 0.01	
Wavelength Range (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650	
Optical Connector	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)	1310/1550(±20)
Spectral Width (nm)	≤ 5	
Output Power (dBm)	≥ -4	
Stability (dB)	± 0.05 (15 mins, short term) ± 0.2 (8 hours, long term)	
Modulation Output	CW(Continuous Wavelength), 270Hz, 1kHz, 2kHz	
Optical Connector	Built-in universal 2.5mm tip sleeve Option: 2.5mm universal connector male to FC / SC / LC female adapter	
VFL Specification		
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	
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, One-year warranty		
Certification		
		
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	
Environment		
Working Temperature (°C)	-10 to +60	
Storage Temperature (°C)	-30 to +70	
Relative Humidity (%)	5 to 95, Non-condensing	

Ordering Information

OMM 01-003XX

Central Wavelength (OLS) & Power Range (OPM)

- 1 : 850nm & 1300nm, +6dBm to -70dBm
- 2 : 850nm & 1300nm, +26dBm to -50dBm
- 3 : 1310nm & 1550nm, +6dBm to -70dBm
- 4 : 1310nm & 1550nm, +26dBm to -50dBm

Output Power (VFL)

- 1 : 1mW
- 2 : 10mW
- 3 : 30mW
- 4 : 50mW

Note : 1. OPM, OLS & VFL all with built-in universal 2.5mm tip sleeve.

Option

Adaptor for OPM & OLS

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

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)
02-00421	1.25mm with ESD (Electro-Static Discharge)
02-00422	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 : OMM 01-00311

Option : A0-00121 、 A0-00201 、 A0-00301



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