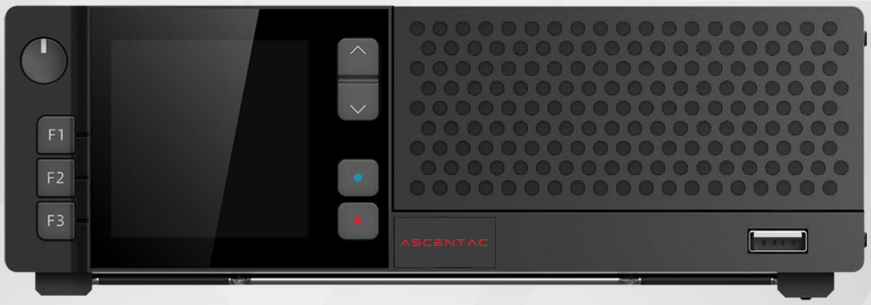
ASCENTAC



Ascentac TestMate2400 Series, Multi-channel Optical Power Meter, delivers high accuracy across a wide dynamic range. Fully compatible with both SM and MM fibers, it is ideal for the simultaneous testing of multi-channel optical components.

Multi-channel Optical Power Meter

Ascentac TestMate2400

Desk-top 1 to 4 Channel OPM with High Accuracy and a Wide Dynamic Range

Feature

- Wide Dynamic Range up to 76 dB High Accuracy of ± 3%
- Exceptional 0.001 dB Resolution
- Low-brightness, eye-comfort display for extended use
- Space-saving design for vertical or horizontal placement
- Supports remote control via Ethernet port
- USB Type-C charging

Application

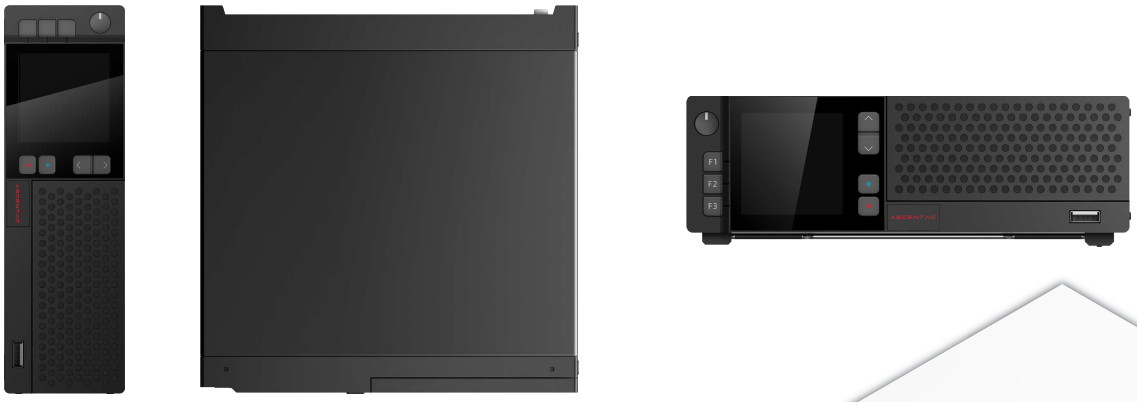
- Research, manufacturing, and testing of optical components

Description

Its compact, dual-orientation design maximizes valuable bench space. The intuitive interface and clear display streamline the entire testing workflow, ensuring a user-friendly and efficient experience.

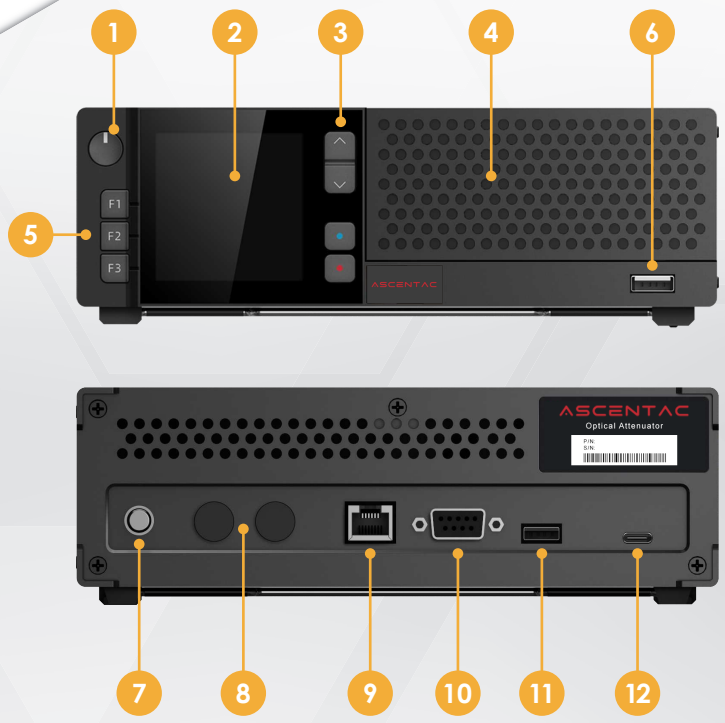
For data management, test results can be stored directly to a USB drive. The standard Ethernet (LAN) and RS232 ports provide robust options for remote control and automated testing, with seamless data transfer to a PC to boost overall productivity.

Vertical or Horizontal. Always Compact.



Appearance

1. Power switch
2. 2.7-inch color screen
3. Control knob
4. Dust cap for optical interface
5. Function keys
6. USB-A port
7. Grounding terminal
8. External detector interface
9. Ethernet port
10. RS232 port
11. USB-A port
12. USB Type-C charging port



Quick-Swap Design for Fast & Easy Connector Changes

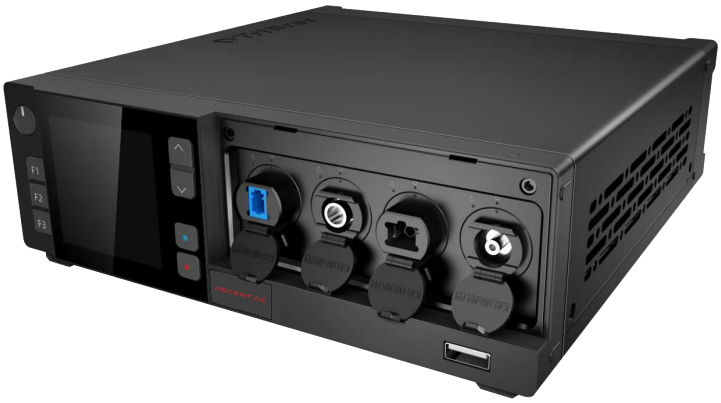

1.25mm


2.5mm


FC


SC


LC



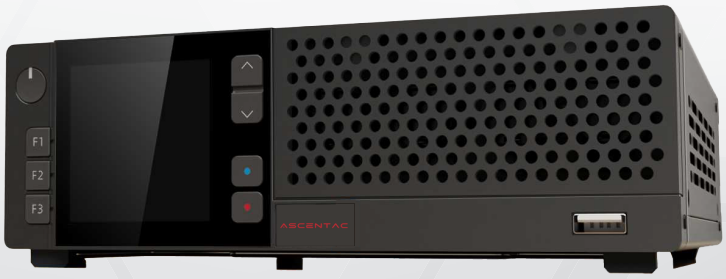
Optical Component Testing

Insertion loss measurement for optical splitters with OLS


Optical Light Source


Fiber-optic splitter


Multi-channel
optical power meter



Specification

OPM		
Channels	1、2 or 4	
Operating Wavelength (nm)	700 to 1700	
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625, CWDM wavelengths	
Detector Type	InGaAs (ϕ 1mm or ϕ 2mm)	
Power Measurement Range (dBm)	+10 to -70	+26 to -50
Maximum Input Power (dBm)	16	28
Power Accuracy (dB)	± 3%	
Resolution (dB)	0.001	
Linearity (dB)	± 0.03	
Return Loss (dB)	> 55	
Averaging Time	1ms、10ms、100ms、500ms、1s、5s、10s	
Optical Connector Type	2.5mm universal, 1.25mm universal, FC, SC, LC	

Display

2.7-inch color display
Resolution: 320 x 320 pixels

Interface

1. 2 USB ports
2. USB-C charging port
3. Ethernet port (RJ45)
4. RS232 port
5. External detector interface
6. Grounding terminal

Environment	
Working Temperature (° C)	0 to 50
Storage Temperature (° C)	-20 to 70
Relative Humidity (%)	< 90, Non-condensing

Dimension and Weight	
L x W x H (mm)	215 x 210 x 65
Weight (g)	800

Standard Accessories
Main unit, Power adapter, USB power cable, 1-year warranty

Note:

1. At an ambient temperature of 23 ± 2 ° C.
2. Measured with an FC/PC polished connector.
3. With a -20 dBm Continuous Wave (CW) input at 1550 nm, and a spectral width of < 10 nm.
4. Recommended calibration interval: 2 years.

External Detector (Option)	
Channel	1 or 2
Operating Wavelength (nm)	700 to 1700
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625, CWDM 18 wavelengths (Option)
Detector Type	InGaAs (ϕ 10mm)
Power Measurement Range (dBm)	+26 to -60
Maximum Input Power (dBm)	28
Power Accuracy (dB)	± 3%
Resolution (dB)	0.001
Linearity (dB)	± 0.03 (-50 to+25dBm)
Return Loss (dB)	> 55
Warm-up Time (mins)	20
Optical Connector Type	2.5mm universal, 1.25mm universal, FC, SC, LC

Interface	
Power	DIN-422
Output	BNC

Environment	
Working Temperature (° C)	0 to 50
Storage Temperature (° C)	-20 to 70
Relative Humidity (%)	< 90, Non-condensing

Dimension and Weight	
L x W x H (mm)	130.7 x 52 x 40
Weight (g)	400

Note:

1. At an ambient temperature of 23 ± 2 ° C.
2. Measured with an FC/PC polished connector.
3. With a -20 dBm Continuous Wave (CW) input at 1550 nm, and a spectral width of < 10 nm.
4. Recommended calibration interval: 2 years.

Ordering Information

TestMate 03- X 24 X X

Power Rang
A：+10dBm to -70dBm
B：+26dBm to -50dBm

Active Area
1：ϕ 1mm
2：ϕ 2mm

Channel
1：1-CH
2：2-CH
3：4-CH

Note: 1. Interchangeable adapters are available: 2.5mm universal, 1.25mm universal, FC, SC, and LC. Please specify your choice when ordering.

Example: TestMate 03-A2432，Universal 2.5mm

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