



ASCENTAC  
**Fiber  
VERA**

# 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  $\pm 3\%$
- 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

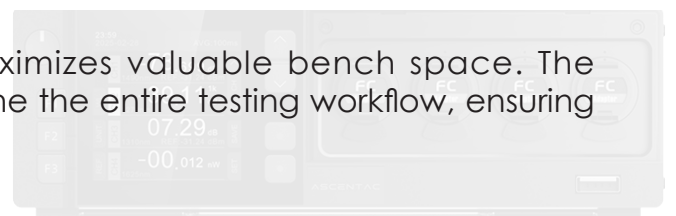
### Application

- Research, manufacturing, and testing of optical components

### Introduction

Ascentac FiberVERA 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.

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.



## Description

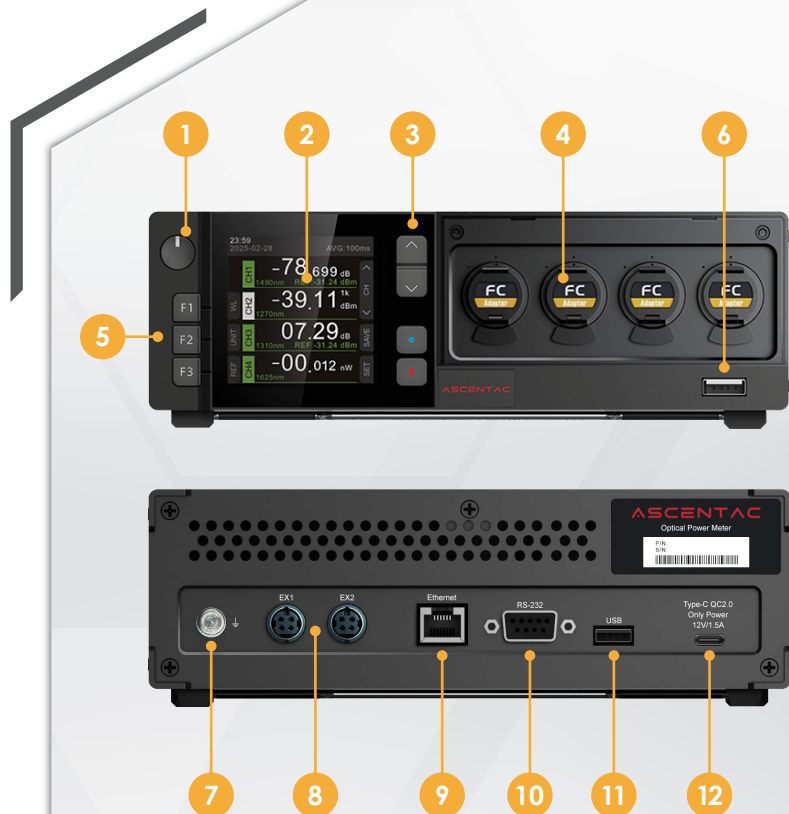
For data management, test results can be stored directly to a USB drive. The standard Ethernet (LAN) and RS232 ports provide robust options for remote control and automated testing, with seamless data transfer to a PC to boost overall productivity.

## 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



## Optical Component Testing

Insertion loss measurement for optical splitters with OLS



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  $23 \pm 2^{\circ} \text{C}$ .
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

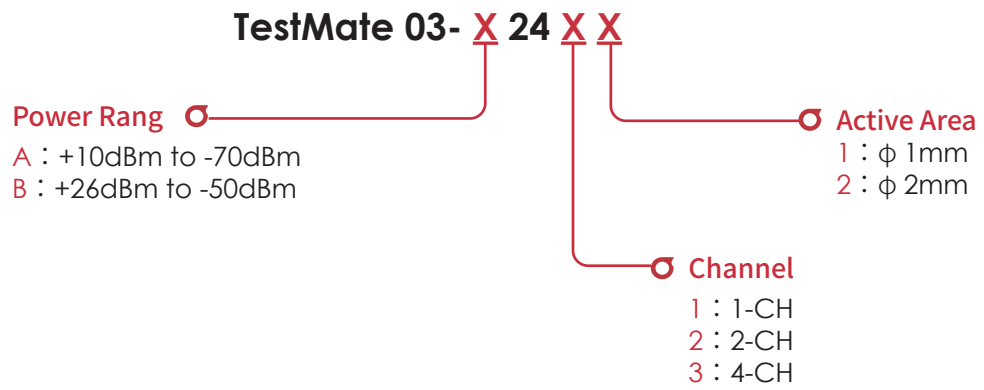
## Dimension and Weight

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

Note:

1. At an ambient temperature of  $23 \pm 2^{\circ} \text{C}$ .
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



**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

