



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 $\pm 3\%$
- 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

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.

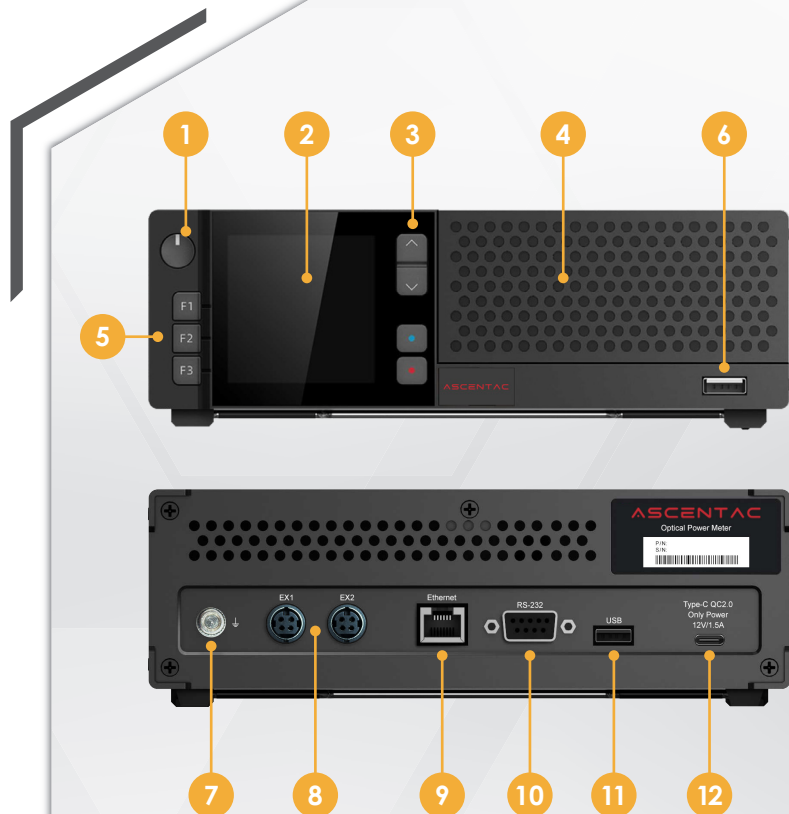
For data management, test results can be stored directly to a USB drive. The standard Ethernet (LAN) and RS232 ports provide robust options for remote control and automated testing, with seamless data transfer to a PC to boost overall productivity.

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

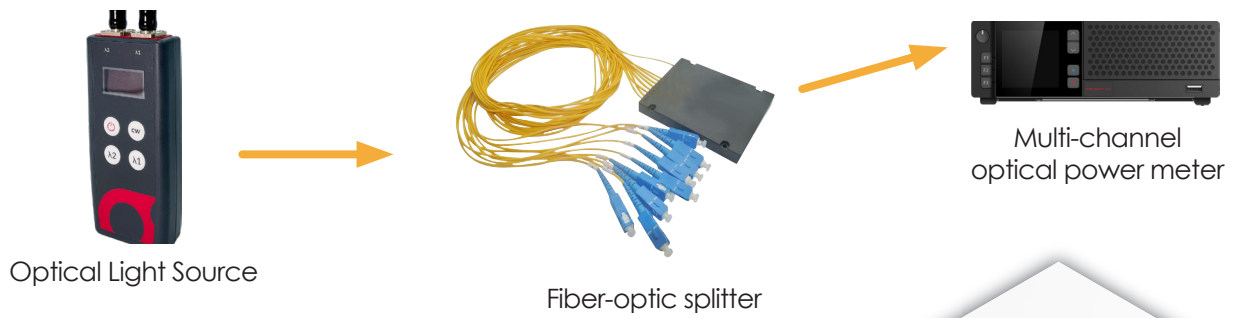


Quick-Swap Design for Fast & Easy Connector Changes



Optical Component Testing

Insertion loss measurement for optical splitters with OLS



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 |

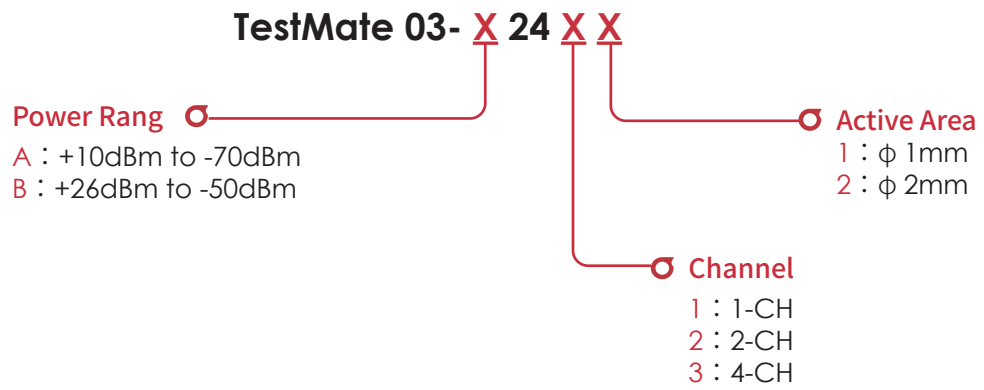
Dimension and Weight

| | |
|----------------|-----------------|
| 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

