



ASCENTAC
**Fiber
VERA**

Variable Optical Attenuator

Ascentac TestMate2300

Desk-top 1 to 4 Channel VOA: Delivering Exceptional Resolution, Accuracy & Stability

Feature

- Attenuation mode: open-loop, closed-loop, and power lock
- Attenuation range: 0 to 40 dB
- Insertion loss < 2.2 dB
- 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

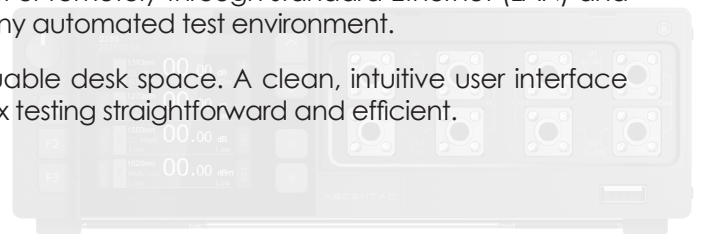
- Bit Error Rate (BER) testing
- Optical power meter calibration & verification
- Optical receiver sensitivity measurement

Introduction

Ascentac FiberVERA TestMate2300 Series, Variable Optical Attenuator, delivers high-precision attenuation across a wide wavelength range with low insertion loss. Its three modes—Open-Loop, Closed-Loop, and Power Lock—are ideal for optical power calibration and receiver sensitivity testing.

Flexible control is provided via the intuitive front panel or remotely through standard Ethernet (LAN) and RS232 interfaces, enabling seamless integration into any automated test environment.

Its compact, dual-orientation design maximizes valuable desk space. A clean, intuitive user interface streamlines the entire workflow, making even complex testing straightforward and efficient.

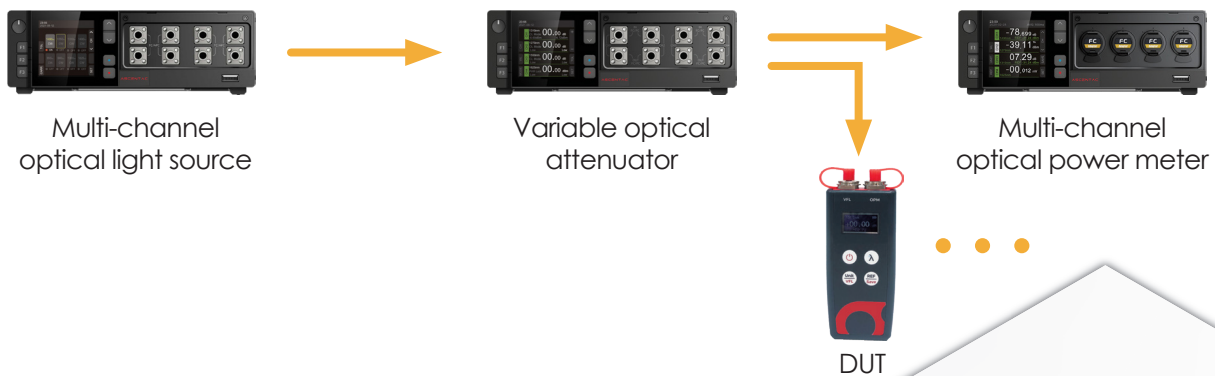


Vertical or Horizontal. Always Compact.



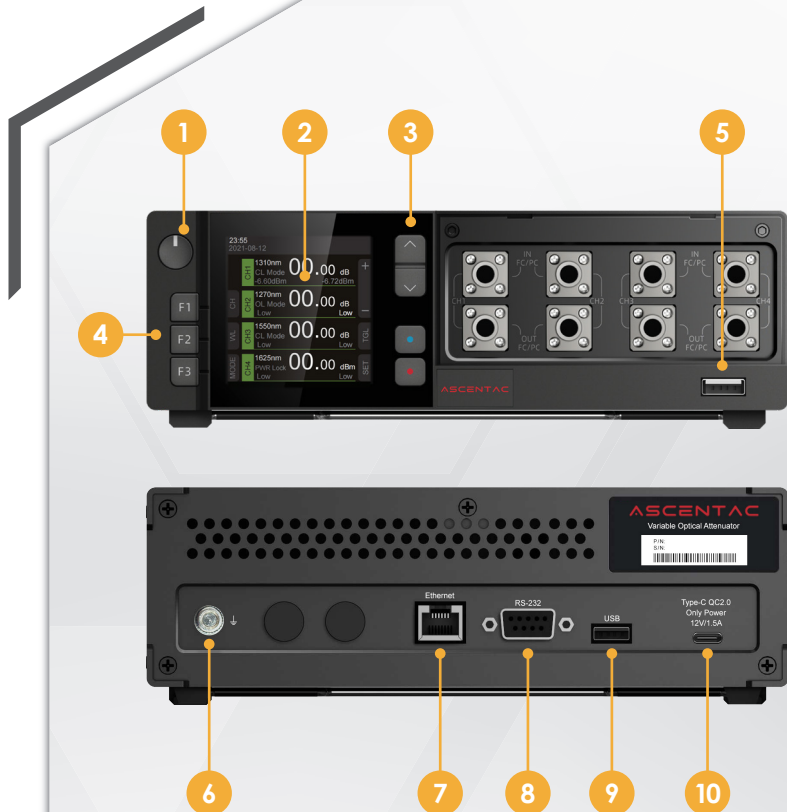
Streamline Your Calibration Process

Connect optical light source, variable optical attenuator, optical power meter and DUT to calibrate optical power, correcting for attenuation error.



Appearance

- 1 Power switch
- 2 2.7-inch color screen
- 3 Control knob
- 4 Function keys
- 5 USB-A port
- 6 Grounding terminal
- 7 Ethernet port
- 8 RS232 port
- 9 USB-A port
- 10 USB Type-C charging port



Specification

VOA				
Channels	1、2 or 4			
Attenuation Range (dB)	0 to 40			
Fiber Type	SM (9/125um)		MM (50/125um)	
Operating Wavelength (nm)	1270、1290、1310、1330、1490、1550		850 ± 20	
Operating Mode	Open-Loop	Power Lock	Closed-Loop	Open-Loop
Repeatability (dB)	± 0.05 @ 0 to 30dB ± 0.1 @ 30 to 40dB	± 0.05	± 0.05	± 0.1
Accuracy (dB)	± 0.10 @ 0 to 10dB ± 0.15 @ 10 to 20dB ± 0.40 @ 20 to 40dB	± 0.05	± 0.05	± 1.5
Adjustment Speed (ms)	< 20	< 300	< 300	< 1300
Wavelength Dependent Loss (dB)	≤ 0.3 @ 0dB, Δλ ≤ 20nm ≤ 1.5 @ 20dB, Δλ ≤ 20nm	N/A	N/A	N/A
Polarization Dependent Loss (dB)	< 0.15 @ 0 to 20dB < 0.5 @ 20 to 40dB	< 0.15	< 0.15	< 0.3
Insertion Loss (dB)	< 1.2 without connector < 2.2 with connector		< 1.0 without connector < 2.2 with connector	
Return Loss (dB)	> 45		> 35	
Resolution (dB)	0.01		0.1	
Maximum Input Power (dBm)	+23		+20	
Power Monitoring Range (dBm)	N/A	+18 to -60	N/A	
Power Monitoring Linearity (dB)	N/A	± 0.05	N/A	
Power Monitoring Accuracy (%)	N/A	± 5%	N/A	
Optical Connector Type	FC/PC、FC/APC、SC/PC、SC/APC			

Display

2.7-inch color display
Resolution: 320 x 320 pixels

Interface

1. 2 USB-A ports
2. USB-C charging port
3. Ethernet port (RJ45)
4. RS232 port
5. Grounding terminal

Environment

Working Temperature (°C)	0 to 40
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)	1000

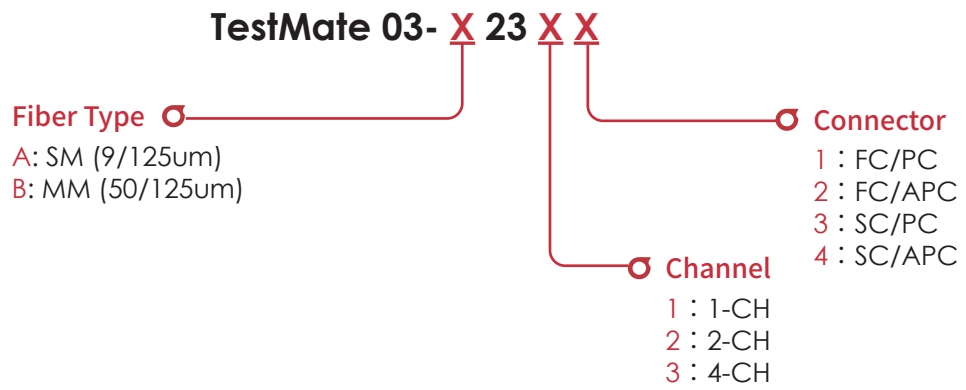
Standard Accessories

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

Note:

1. At an ambient temperature of 23 ± 2 °C.
2. Measured with G.652 Single-Mode (SM) 9/125 μm or Multi-Mode (MM) 50/125 μm fiber with PC polished connectors.
3. With a -20 dBm Continuous Wave (CW) input at 850 nm or 1550 nm, and a spectral width of < 10 nm.
4. Recommended calibration interval: 1 year.

Ordering Information



Example : TestMate 03-A2332



© Copyright 2025 Ascentac. All rights reserved. The information in this document is subject to change without notice.

For the latest information regarding this product, please visit our website at <http://www.ascentac.com>



Contact us