

OT-300

Modular OTDR



The OT-300 Modular OTDR from VDT, through its flexible modular design, not only improves testing accuracy and efficiency but also enhances the device's adaptability and scalability. It is widely used in optical fiber network construction, operator maintenance, fiber wiring debugging, and fiber fault diagnosis. In the increasingly complex landscape of fiber-optic communication and network construction, the modular OTDR provides engineers and network operators with powerful tools to ensure the reliability and stability of optical fiber systems.

Key Advantages

- Platform and modular design
- Multiple connection options such as USB and RJ45
- Fast analysis and processing software
- Open-source interface documentation, facilitating customer development
- High-speed testing with accurate results and high repeatability
- Automatic/Manual OTDR modes: Multi-pulse width testing + automatic analysis, one-click fast automatic testing

Main Applications

- Access Networks, Metropolitan Networks, Long-Distance, and Ultra-Long-Distance Optical Fiber Network Characterization
- Data Center Setup, Monitoring, and Fault Diagnosis
- Online and Offline Optical Fiber Monitoring at Various Network Levels
- Real-time Optical Fiber Link Data Collection and Analysis
- Optical Fiber Cable Production and Manufacturing Testing

Specification

OTDR				
Type	OT-300-2132-PV#1310/1550	OT-300-2136-PV#1310/1550	OT-300-2136-PV#1310/1625	OT-300-2224-PV#850/1300
Wavelength (nm)	1310/1550	1310/1550	1310/1625	850/1300
Dynamic range (dB)	32/30	36/34	36/34	24/24
Pulse width (ns)	3/5/10/30/50/100/275/500/1000/2500/10000/20000			3/5/10/30/50/100/275/500/1000/2500
Event dead zone (m) ⁽²⁾	0.75			2
Attenuation dead zone (m) ⁽²⁾	3.5			10
Loss resolution (dB)	0.001			
Ranging resolution (m)	0.001			
Ranging accuracy (m)	$\pm (0.75 + 0.005 \% \times \text{distance} + \text{sampling resolution})$			
Distance range (km)	0.1~180	0.1~240	0.1~240	0.1~5
Data format	SOR/PDF/HTML			

OPM (Options)	
Wavelength range (nm)	800nm~1700nm
Measuring range (dBm)	-50~+10
Measurement uncertainty	±5%
Calibration wavelength (nm)	850/1300/1310//1550/1625
Connector type	FC

VFL (Options)	
Wavelength (nm)	630nm~670nm
Working mode	CW/1Hz
Output power (mW)	>1
Connector type	FC

General Parameter	
Operating temperature (°C)	10~40
Storage temperature (°C)	-40~70
Humidity	0 % to 95 %(Non-condensing)
Dimension (mm)	140.5*100*69

Note: [1] All specifications are applicable at a temperature of 23°C ± 1°C ; [2] Deadzone test conditions: SM1550/3ns/0.65km/60s; The event reflection coefficient is -45 ± 2dB

Ordering information

OT-300

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Number of wavelengths	
1	One wavelengths
2	Two wavelengths
3	Three wavelengths

SM/MM	
1	Single mode
2	Multi mode

Dynamic range	
24	24dB(MM 850)
32	32dB(SM 1310)
36	36dB(SM 1310)
40	40dB(SM 1310)

OPM options	
X	None
P	Equipped

VFL options	
X	None
V	Equipped

Connector Type	
FP	FC/PC(MM)
FA	FC/APC(SM)
SP	SC/PC(MM)
SA	SC/APC(SM)
XX	Others

Optional wavelength
1310(SM)
1550(SM)
1625(SM)
1650(SM)
850(MM)
1300 (MM)

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