

FOT-350

Advanced Handheld OTDR

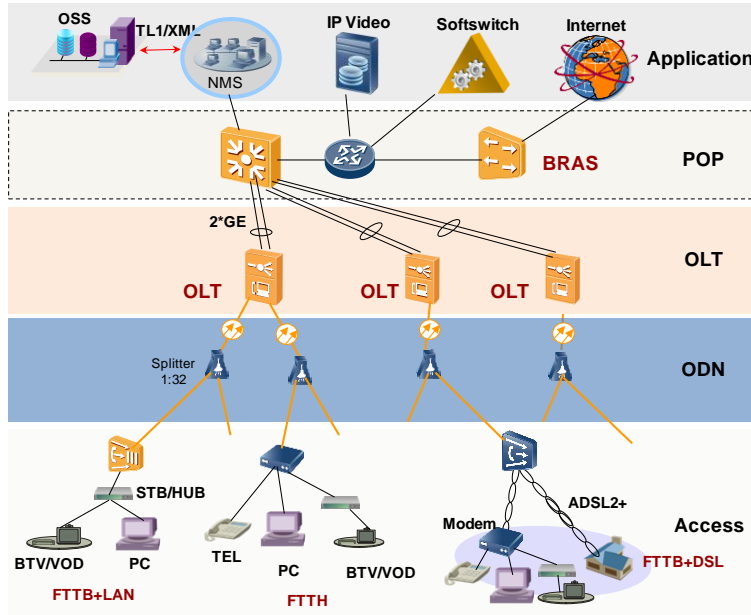


Key Features

- Fast start up
- High resolution color touch display, great visibility for easy reading and operating even under direct sunlight.
- Shockproof designed, lightweight, rugged, flexible for field testing
- Easy detecting and characterizing fiber with simple and user-friendly keys.
- Covering all OTDR functions for whole optical link testing and maintaining.
- PON OTDR supports up to 4 wavelengths (1310/1490/1550/1625nm) for fiber testing and can automatically switch dual-wavelength OTDR testing.
- Regular OTDR provides more flexible dynamic range: 40dB, 35dB and 30dB.
- Event dead zone as small as 0.8m and attenuation dead zone less than 7m for pinpoint event location.
- Supports VFL function.
- Optional optical power meter function.

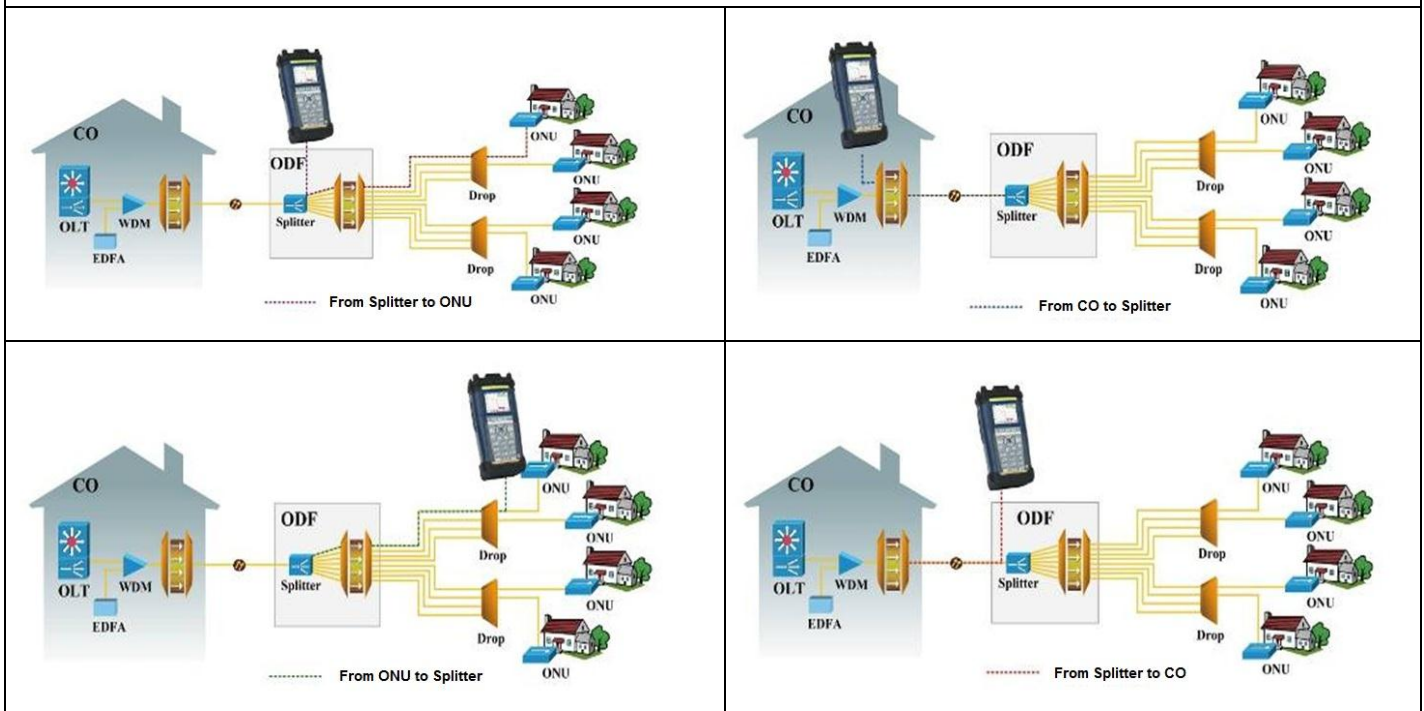
Fiber Optical Network Testing

OTDR has become a must test equipment for installing, monitoring and troubleshooting of optical network. As increasingly demand of high bandwidth service, fiber optical network is rapidly expanding. FibreOptica's FOT-350 advanced handheld OTDR test set provides more comprehensive fiber test functions and more accurate test result, which could help network experts ease installation, operation and maintenance of fiber optical network.



OTDR Tests

During installation, every optical fiber network section should be tested with OTDR. FOT-350 supports OTDR test of each section in fiber optical network with accurate test results.



Specifications

Regular Dual OTDR			
Model	FOT-350H	FOT-350N	FOT-350L
Wavelength (nm)	1310/1550	1310/1550	1310/1550
Connector Type	Interchangeable FC, SC or ST		
Dynamic Range (dB)	40/39	35/34	30/28
Pulse Width (ns)	3 ~ 20000	3 ~ 20000	3 ~ 20000
Event Dead Zone (m)	≤0.8	≤0.8	≤0.8
Attenuation Dead Zone (m)	≤ 7/7	≤ 7/7	≤ 7/7
Linearity (dB/dB)	±0.03	±0.03	±0.03
Loss Threshold (dB)	0.01	0.01	0.01
Loss Resolution (dB)	0.001	0.001	0.001
Sampling Resolution (m)	0.125 ~ 1	0.125 ~ 1	0.125 ~ 1
Sampling Points	256K	256K	256K
Distance Uncertainty (m)	± (0.75 + 0.0010% × distance + sampling resolution)		
Distance Range (km)	≤ 200	≤ 180	≤ 150
Typical Real-time Refresh (Hz)	3		
Memory Capacity	500 traces		
Measurement Time	10s~180m, user defined		

PON OTDR				
Model	FOT-350P	FOT-350PA	FOT-350PB	FOT-350PC
Wavelength (nm)	1310/1550/1625	1310/1490/1625	1310/1550/1650	1310/1490/1550/1625
Connector Type	Interchangeable FC, SC or ST			
Dynamic Range (dB)	39/37/38	39/37/38	39/37/38	39/37/37/38
Pulse Width (ns)	3 ~ 20000	3 ~ 20000	3 ~ 20000	3 ~ 20000
Event Dead Zone (m)	≤0.8	≤0.8	≤0.8	≤0.8
Attenuation Dead Zone (m)	≤ 7/7/7	≤ 7/7/7	≤ 7/7/7	≤ 7/7/7/7
Linearity (dB/dB)	±0.03	±0.03	±0.03	±0.03
Loss Threshold (dB)	0.01	0.01	0.01	0.01
Loss Resolution (dB)	0.001	0.001	0.001	0.001
Sampling Resolution (m)	0.125 ~ 1	0.125 ~ 1	0.125 ~ 1	0.125 ~ 1
Sampling Points	256K	256K	256K	256K
Distance Uncertainty(m)	± (0.75 + 0.0010% × distance + sampling resolution)			
Distance Range (km)	≤ 180	≤ 180	≤ 180	≤ 180
Typical Real-time Refresh(Hz)	3			
Memory Capacity	500 traces			
Measurement Time	10s~180m, user defined			

Options

Optical Power Meter *		Light Source **	
Calibrated wavelength (nm)	850/1300/1310/1490/1550/1625	Wavelength (nm)	1310/1490/1550/1625
Measurement Range	-60dBm to +10dBm	Output power	0dBm
Wavelength Range	780nm to 1800nm		
Visual Fault Locator ***			
Wavelength: 650nm±10nm; Output power: +3dBm			

* The optical power meter is not applicable to PON OTDR if the FVL option is also selected.

** The wavelengths supported are the same as corresponding OTDR.

*** The output power can be customized upon request.

General Specifications

Display	3.5 inch, high resolution color touch display
Temperature	Operating: -10°C to 50°C; storage: -40°C to 70°C
Relative Humidity	0 to 95% (non-condensing)
Dimension (H×W×D)	80mm x 135 mm x250 mm
Weight	1.1kg
Power	Li-ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138

Ordering Information

Standard Configuration

Category	Model	Description
Main Unit	FOT-350H	2-wavelength 1310/1550nm OTDR tester, dynamic range 40/39dB
	FOT-350N	2-wavelength 1310/1550nm OTDR tester, dynamic range 35/34dB
	FOT-350L	2-wavelength 1310/1550nm OTDR tester, dynamic range 30/28dB
	FOT-350P	3-wavelength 1310/1550/1625nm PON OTDR tester, dynamic range 39/37/38dB
	FOT-350PA	3-wavelength 1310/1550/1625nm PON OTDR tester, dynamic range 39/37/38dB
	FOT-350PB	3-wavelength 1310/1490/1625nm PON OTDR tester, dynamic range 39/37/38dB
	FOT-350PC	4-wavelength 1310/1490/1550/1625nm PON OTDR tester, dynamic range 39/37/37/38dB
Battery	Included	One Lithium polymer rechargeable battery pack
Power Adapter	Included	24V AC/DC power adapter
Power Cord	Included	One 2-meter-long power cord
CD	Included	One copy of CD
Fiber Jumper	Included	One FC/FC port, single-mode, simplex, 9/125, 3-meter-long
Carry Bag	Included	Soft carrying bag for the instrument

Options

Optical Power Meter	FOT-350-OPM	OTDR optical power PM testing option
Optical Light Source	FOT-350-OLT	OTDR single-mode optical source testing option.
Visual Fault Locator	FOT-350-VFL	OTDR visual fault locator option