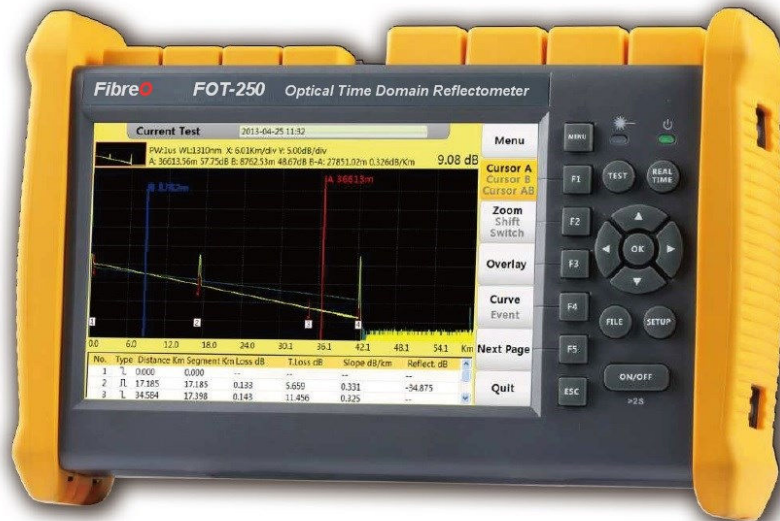


FOT-250

FTTx Optical Time Domain Reflectometer



The FOT-250 series make the OTDR technology available to all levels of fiber optics verifications in a lightweight, compact and easy-to-use integrated unit. Various models of FOT-250 satisfy all applications from short-range access to long-range transport network construction and installation, Metro, Cable TV and FTTx fiber networks maintenance.

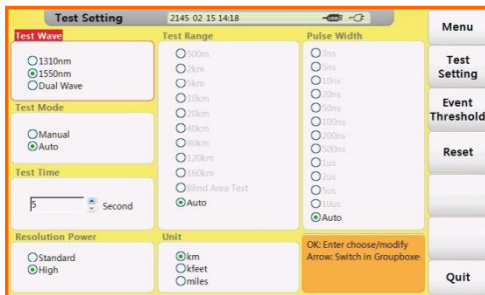
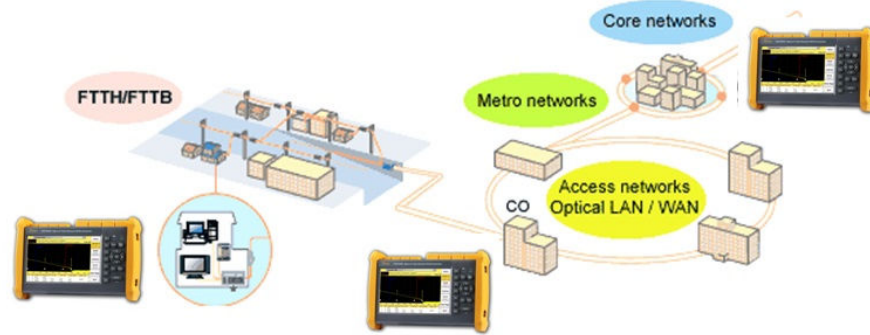
Key Features

- Large screen – 7-inch high resolution (800 x 480) anti-reflective TFT LCD display and great visibility for easy setting, reading test results and operating even under direct sunlight.
- Compact design – lightweight, intelligent, shockproof, waterproof (optional) and rugged.
- Convenient one button testing, multi-measuring mode, easy-to-use.
- User-friendly operating interface and visual keyboard capable.
- Quick Start within 10 seconds – it takes only 10 seconds to be ready to use from complete Power-OFF!
- Real-time measuring function – convenient to monitor the splicing process.
- Input optical signal auto-detection and self-protection function – prevent OTDR module from being damaged by optical live signal in fiber link under-testing.
- Provide in-service troubleshooting with 1625nm wavelength – an ideal OTDR able to test on live fiber and various PON systems through splitters.
- Built-in visual laser source (VFL) – accurately and fast identify the closer fault points in a fiber jumper cable, ODF, patch panels, splice trays and etc.
- 2 main USB ports and one mini USB port for connecting with external USB devices, computer and so on.
- Screenshot function – convenient to capture a result in BMP format.
- PC remote access and control function is available via RJ45 interface (optional)
- Integrated with 4GB internal memory – can store more than 40,000 groups curve.
- Management software supports data including bi-directional analysis and simulation, process, generate and print report.
- Event dead zone as small as 0.8m and attenuation dead zone 4m for pinpointing event location.
- Battery indicator function and long working hours for outdoor operation.
- Rich options – support optical power meter, light source, fiber end face inspector and many other functions.

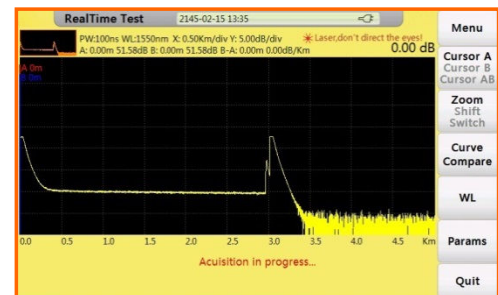
Right Tool for Installation and Maintenance of FTTx and PON Networks



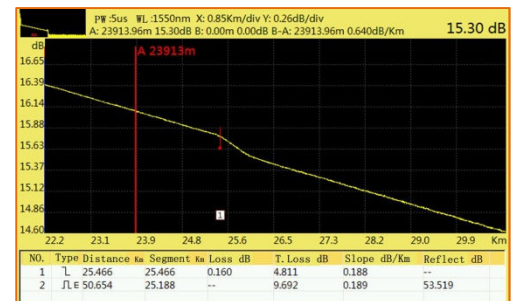
Right tool for installation and maintenance of fiber network



Straight forward setup menu



Typical Test Result



Detecting Macrobend

Fault event

No.	Type	Distance	Segment	Loss dB	T.Loss dB	Slope dB/km	Reflect dB
1	L	0.000	0.000	--	--	--	--
2	L	5.739	5.739	0.031	0.529	--	--
3	JL	17.150	11.412	0.422	2.971	0.178	-36.066
4	JL	67.764	50.613	0.893	13.411	0.188	-28.226
5	JL	93.883	26.120	0.618	18.783	0.182	-31.716
6	L	119.509	25.625	--	23.139	0.169	--

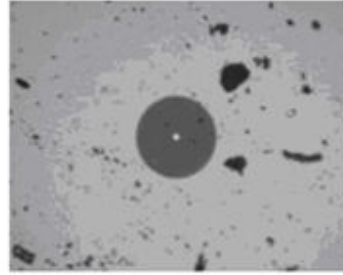
Fault event

Listed Fault Events

Comprehensive Interfaces and Management Software



Perform as regular VFL



Connect the probe to the USB port, which includes image sensor inside the probe to have real-time inspection. There is no need for any additional power cord and driver



Perform as regular stabilized Light Source

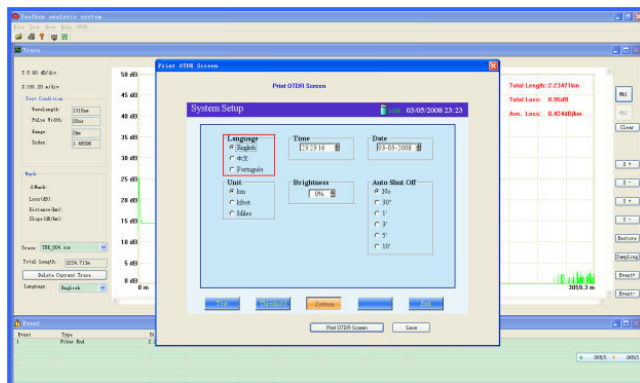
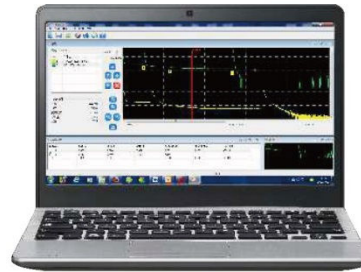


Comprehensive Interfaces:
3 USB Ports, RJ45 Ports
Visual Fault Locator
Optional OPM and OLS interfaces
External USB device - Inspector



Perform as regular Optical Power Meter

PC connection via RJ45 or Off-line Data Analysis and Simulation



Management S/W - Setup Menu



Management S/W - Data Simulation

Specification

OTDR	
Wavelength	1310nm, 1550nm, 1490nm and 1625nm; Deviation: ≤ 25
Pulse width	3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs and 20μs
Distance Range	Dead zone, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km and 240km
Sampling resolution	Minimum 0.05m
Sampling points	up to 128,000 points
Linearity.	±0.05 dB
Group index range & setup	1.2000 ~ 1.6000 in 0.0001steps
Loss threshold	0.01dB
Loss resolution	0.001 dB
Distance resolution	0.01m
Attention Accuracy	0.05dB/dB
Distance accuracy	± (1m + measuring distance x 3x10 ⁻⁵ + sampling resolution) m
Typical real-time refresh rate	1Hz
Stable light source	-5dBm
Built-in VFL *	10mW, CW/2Hz
Optical connector type	Interchangeable FC, SC or ST

* the output power can be customized

General	
Display	7 inch TFT color LCD (800 x 480) (touch screen is optional)
Data storage	40,000 groups of curve
USB Port	3 USB ports (Two Type A and One Type B or mini USB): Type A: external USB memory device and software upgrade; Type B or Mini USB: communication with computer
RJ45 Port	Remote control, data sharing and software upgrade
Power Supply	7.4V/4.4Ah Li-ion battery with 12V AC/DC adapter
Battery life time	6 hours
Operating temperature	-10°C to 50°C
Storage temperature	-20°C to 70°C
Relative Humidity	< 95% (non-condensing)
Dimensions	253 (L) x 168 (W) x 73.5 (H) mm
Weight	1.5kg with battery

Note: Specifications subject to change without notice

Regular Dual wavelength OTDR

Model	Dynamic Range (dB)		Event Dead Zone	Attenuation Dead Zone
	1310nm	1550nm		
FOT-2532D	32	30	< 1.2 m	< 6 m
FOT-2535D	35	33	< 1.2 m	< 6 m
FOT-2540D	40	38	< 1.2 m	< 6 m
FOT-2543D	43	41	< 1.2 m	< 5.5 m

Regular Triple wavelength OTDR

Model	Dynamic Range (dB)			Event Dead Zone	Attenuation Dead Zone
	1310nm	1490nm	1550nm		
FOT-2537T	37	34	35	< 1.2 m	< 6 m

PON OTDR (three wavelengths)

Model	Dynamic Range (dB)			Event Dead Zone	Attenuation Dead Zone
	1310nm	1550nm	1625nm		
FOT-2540TF *	40	38	38	< 1.2 m	< 6 m
FOT-2543TF *	43	41	41	< 1.2 m	< 5.5 m

* "F" means with filtered 1625nm module for testing through PON system

PON OTDR (four wavelengths)

Model	Dynamic Range (dB)				Event Dead Zone	Attenuation Dead Zone
	1310nm	1490nm	1550nm	1625nm		
FOT-2537QF *	37	34	35	35	< 1.2 m	< 6 m

* "F" means with filtered 1625nm module for testing through PON system

Options

Optical Power Meter

Calibrated wavelength (nm)	850/1300/1310/1490/1550/1625
Measurement Range (Type A)	-70dBm to +10dBm
Measurement Range (Type B)	-55dBm to +26dBm
Wavelength Range	780nm to 1800nm

Light Source **

Wavelength	1310nm/1550nm
Output power	-5dBm

** The output power can be customized upon request.

Optical End Face Inspector

Image zoom	400x
Resolution (µm)	Under 1.0
Dimension	235*95*30
Resolution (µm)	Under 1.0
Resolution (µm)	0.40 x 0.31

Operating Temperature	-18°C ~ 35°C
Storage Temperature	-18°C ~ 35°C
Weight (g)	15
USB Port	1.1/2.0

Standard Package

OTDR main unit	1
AC/DC Power Adapter	1
Operation manual	1
Carrying bag	1
Wrist belt	1

FC adapter	1
USB cable	1
User guide	1
CD Disk	1

Ordering Information

FOT-25xxYZ-P-S

xx:	32 (32dB)	P:	None (no OPM)
	35 (35dB)		A (Type A OPM)
	37 (37dB)		B (Type B OPM)
	40 (40dB)	S:	None (no OLS)
	43 (43dB)		S (-5dBm OLS output)
Y:	D (dual wavelength)		
	T (triple wavelength)		
	Q (four wavelength)		
Z:	None (regular OTDR)		
	F (PON OTDR with filter)		

Options

Part Number	Descriptions
FOT-250-FCSC	FC (Male) to SC (Female) Adapter
FOT-250-FCST	FC (Male) to ST (Female) Adapter
FOT-250-FCLC	FC (Male) to LC (Female) Adapter
FOT-250-BFA	Bare fiber adapter
FOT-250-TS	Touch Screen
FOT-250-FEI	Fiber End Face Inspector
Other available functions upon request:	
Bluetooth, Touch screen, A-GPS, WiFi and so on.	