





FirstFiber

FF80D series OTDR

Convenient multi-function fiber optic tester Design for tough outdoor environment





FEATURES

Integrated design, smart and rugged

Shockproof, outdoor enhanced

FC / ST / SC /LC Connectors exchangeable

Automatic and manual test function

VFL (Visual Fault Location) function

OTDR Viewer software for data analysis

APPLICATIONS

FTTX testing and maintanance

CATV network testing

Access network testing

LAN network testing

Metro network testing

Lab and Factory testing

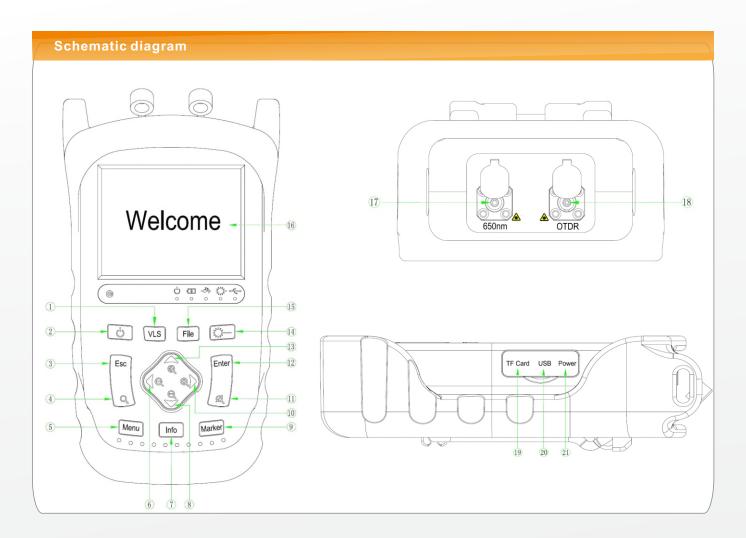
FTTA troubleshooting

Ready for all kinds of environment.

FF80D series OTDR is specially designed for tough outdoor jobs. Lightweight, easy operation, low-reflection LCD and more than 8 hours working period make it be perfect in filed testing. FF80D is qualified in the installation and maintenance of FTTx/Access optical networks.

FF80D series OTDR could display Splice loss, Connector loss, Fiber attenuation, Reflection of points, Link optical return loss and distance to fiber events etc. With test information in a smart way, user could get detailed information immediately.

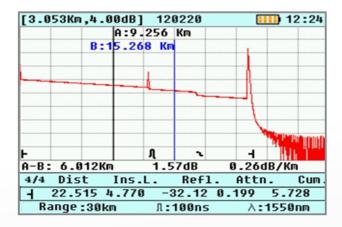
Simplified display style and structured menus help effective in reducing the time of study.

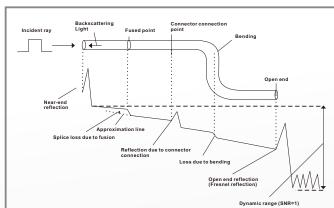


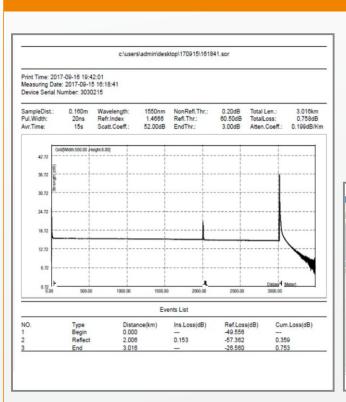
- 1 Turn on/off VFL
- Power Switch
- Exiting from Current Menu
- 4 Second Function Key
- 6 Open/exit from a Menu
- 6 Leftward Direction Key
- 7 Display Trace Parameter
- 8 Downward Direction Key
- Switch Between A and B
- Rightwards Direction Key
- 1 Global Trace Display
- A Confirmation Key
- Upwards Direction Key
- Start/stop OTDR Testing
- Open/close file System
- 16 LCD Screen
- Red Light Outlet
- 1 OTDR Port
- Memory Card Interface
- USB Interface
- Power Charging Port



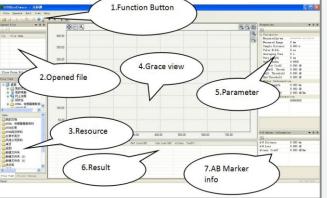
Data Display and Management











Printed Report

OTDRviewer PC Software

VFL Module

Wavelength(±20nm) 650nm

Power 1mW,CLASSII B

Range 5km

Launching Mode CW/2Hz



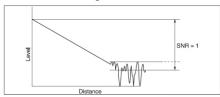
Specification			
General			
Dimension	210×112×67mm on 0.8 kg(battery included)		
Display	TFT-LCD with LED backlight		
Interface	1×USB port, 1xOTDR port, 1xVFL port, 1xCharging Port		
Power Supply	10V(dc), 100V(ac) to 240V(ac), 50~60Hz		
Battery	Lithium battery (with air traffic certification) Operating Time: 8 hours①, Telcordia GR-196-CORE Charging time: <3 hours (power off)		
Power Saving	Backlight off: Disable/1 to 99minutes Auto shutdown: Disable/1 to 99minutes		
DataStorage	Internal memory: 4GB (about 40,000 groups of curves)		
Language	User selectable (English, Chinese, Korean, Russian, contact us for availability of others)		
Environmental Conditions	Operating temperature and humidity: -10° C $\sim+50^{\circ}$ C, \leq 95% (non-condensation) Storage temperature and humidity: -20° C $\sim+75^{\circ}$ C, \leq 95% (non-condensation) Proof: IP65(IEC 60529)		
Accessories	Standard: Main unit, power adapter, SC Adapter, ST Adapter, FC adapter, USB cord, User guide, CD disk, carrying case Optional: LC Adapter, Bare fiber adapter		

Test parameter				
Pulse Width	10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs ,20us			
Distance Range	1km, 2km, 4km, 8km, 15km, 30km, 60km, 90km, 120km, 160km			
Sampling Resolution Minimum 16cm				
Sampling Point	Maximum 128,000 points			
Linearity	≤0.05dB/dB			
Averaging Time	5s, 15s, 30s, 1min, 2min, 3min			
Auto Off	off, 10min, 30min, 60min			
Distance Accuracy	±(1m+measuring distance×3×10⁻⁵+sampling resolution) (excluding IOR uncertainty)			
Screen Backlight	≤100			
IOR Setting	1.0000~2.0000, 0.0001 step			
Units	km			
OTDR Trace Format	Telcordia universal, SOR, issue 2(SR-4731)			
	OTDR: User selectable automatic or manual set-up			
	Auto or manual operation, displayed in table format			
Fiber Event Analysis	User defined PASS/FAIL thresholds:			
	-Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps)			
	-Reflective: 0.01 to 32dB (0.01dB steps)			
	-Fiber end/break: 3 to 20dB (1dB steps)			

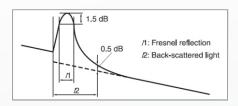


Notes

Oynamic range is measured with maximum pulse width, averaging time is 3 minutes, SNR=1; The level difference between the RMS noise level and the level where near end back-scattering occurs.



Event dead zone is measured with pulse width of 10ns; attenuation dead zone is also measured with pulse width of 50ns.



Ordering Information

Model#	Testing Wavelength	Dynamic Range	Event/ Attenuation Dead Zone
FF80D28	1310/1550nm	28/26dB	1.5/8m
FF80D32	1310/1550nm	32/30dB	1.5/8m
FF80D35	1310/1550nm	35/33dB	1.5/8m
FF80D37	1310/1550nm	37/35dB	1.5/8m

The Kit Includes: OTDR, FC/SC/ST Connector, User Manual, USB Cord, CD, OTDRviewer Software, Power Charging Adapter, Cleaning Tool, Carrying Case, Certificate of Calibrate

Product specifications and descriptions in this document subject to change without notice.



