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AUTO

20H 20h Super long standby



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CHARACTERISTICS

NOV6800 Series high performance Optical Time Domain Reflectometer is a new generation of high performance, multi-function and Intelligent measuring instrument designed by Nov Communications Technology for testing optical fiber communication system. It adopts 7inch color capacitive touch screen, the operation is more simple; and integrates 7 functional modules, more effective to help customers solve the communication link field test and later maintenance; the highest 45 dB dynamic range, can penetrate optical splitter, effective PON network testing; intelligent power-saving management, 20 hours long standby, efficient protection of test dimension continuous.

Applications: It is mainly used to measure the length, loss and connection quality of all kinds of optical fibers and cables, and can be widely used in engineering construction, link maintenance and testing, emergency repair, and the development and production of optical fibers and cables.

The design concept of multifunctional integration, precision testing and convenient operation make the field test operation more simple.



All-in-one FTTx Installation and Maintenance Functions

OTDR



OTDR mode allows for measuring distance, loss, reflectivity, attenuation and accumulation loss on a fiber optic link.

LS (Laser source)



NOV6800 series OTDR comes with optional built-in laser source through OTDR Port that let technicians easily verify the total loss of the local network with a power meter.

PM (Power meter)



NOV6800 series OTDR comes with optional built-in power meter that let technicians easily verify the presence of a signal

EVENT MAP(OTDR)



NOV6800 series OTDR uses 1625nm wavelength to scan and analyze the access point and proceed online testing with optical filter and will not disturb the service. It could pass the 1: $2 \sim 1$: 64 optical splitter

VFL (Visual fault locator)



The VFL, available as a standard module in NOV6800 series OTDR, offers built-in 650nm visual fault location on a FC/UPC connector.

OLT (Optical Loss test Set)



Combining module light source with the Power Meter supports use as a Loss Test Set.

Technical Specification

Data Manager

Use Data Manager to elaborate and print out result files on upper computer within a few steps.

Convenient Operation

One key automatic test Unique diagnostic function for test results Multi wave simultaneous testing function Ethernet Remote control function

General

Dimension	227×160×70mm			
Woight				
Weight	≤ 1.2 kg			
Display	7-inch LCD + Touch screen			
Interface	USB ports, Mini-USB, 10M/100M Ethernet Port			
Power Supply	AC/DC adapter : Input : 100V~240V, 50/60Hz, 0.6A; Output: 12V~19V			
Battery	7.4V(dc)/1.5A Lithium battery (with air traffic certification)			
	Operating time: 12 hours, Telcordia GR-196-CORE			
	Charging time: <4 hours (power off)			
Power Saving	Backlight off: Disable/1 to 99 minutes			
	Auto shutdown: Disable/1 to 99 minutes			
Data Storage	Internal storage: 8G, 200,000 curves; External storage: 4G			
Language	User selectable (English, Simplified Chinese, French,			
	Korean, Russian, Spanish and Portuguese-contact us for availability of others)			
Working temperature	-10°C~+50°C			
Storage temperature	-40°C~+70°C			
Relative humidity	0~95%, Non-Condensing			
Proof	IP65 (IEC60529)			
Laser safety	IEC 60825-1, 21 CFR Class 1			
Accessories	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord,			
	User guide, CD disk, carrying case			
	Connector FC, SC, ST / APC or UPC,			
	Bare fiber adapter			

Technical Specification

Model	N1	N2	NV1	NV2	
Wavelength	1310nm ±20nm 1550nm ±20nm		1310nm ±20nm 1550nm ±20nm 1625nm ±15nm (Filtered)	1310nm ±20nm 1490nm ±20nm 1550nm ±20nm 1625 ±15nm (Filtered)	
Dynamic Range (dB)	38/37dB	45/43dB	39/37/37	38/37/37/37	
Event Dead-Zone (m)	0.8m				
Attenuation Dead-Zone (m)	5, 5, 5, 6m				
Pulse Width	3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs				
Testing Distance	500m, 1km, 2km, 4km, 8km, 16km, 32km, 64km, 128km, 260km				
Loss Resolution	±0.001dB				
Loss Accuracy	±0.04dB/dB				
Sampling Point	16,000 ~ 256,000 Point				
Sampling Resolution	0.05m ~ 16m				
Reflection Accuracy	±3dB				
Distance Resolution	0.01m				
Distance Accuracy	±(0.75m + Sample interval + 0.005% × Test distance)				
Loss Analysis	4-point method / 5-point method				
IOR Setting	1.3000~1.7000, 0.0001 step				
Units	Km, miles, feet				
OTDR Trace Format	Telcordia universal, SOR, issue 2 (SR-4731) OTDR: User selectable automatic or manual set-up				
Testing Modes	Visual fault locator: Visible red light for fiber identification and troubleshooting Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output) Field microscope probe				
Fiber Event Analysis	Reflective and non-reflective events: 0.01 to 9.99dB (0.01dB steps) Reflective: 0.01 to 32dB (0.01dB steps) Fiber end/break: 3 to 20dB (1dB steps)				
Other Functions	Real time sweep: 1Hz Averaging modes: Timed (1 to 3600 sec.) Live Fiber detect: Verifies presence communication light in optical fiber Trace overlay and comparison				

Technical parameter

VFL Module (Visual Fault Locator as standard function)

Wavelength	650nm ±20nm
Power	≥10mw, CLASS 3R
Range	12km
Connector	SC/APC
Launching Mode	CW/1HHz/2Hz

PM Module (Power Meter, as optional function)

Wavelength Range	800~1700nm	
Calibrated Wavelength	850/1300/1310/1490/1550/1625/1650nm	
Test Range	-50~+23dBm	
Resolution	0.01dB	
Accuracy	±0.35dB±1nW	
Modulation Identification	270/1k/2kHz, P _{input} ≥-40dBm	
Connector	Universal	

LS Module (Laser Source, as optional function)

Working Wavelength (±20nm)	1310/1490/1550/1625nm (Consistent with OTDR output)
Output Power	≥-5dBm
Accuracy	±0.5dB
Connector	SC/APC

Notes:

 Typical, back light off, sweeping halted at 25°C, 12 hours typical continuous testing.
Dynamic 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.