

DINTEK Optical Time Domain Reflectometer

Responding to the growing needs for reliable and ease-of-use field test instruments for installation and maintenance of fiber optic networks, the DINTEK Optical Time Domain Reflectometer (OTDR) is designed to empower field technicians to make fast and precise measurements with confidence. The DINTEK OTDR satisfies a broad range of test and measurement needs in analyzing optical networks from access to core.

Features

- IP65 protection level, outdoor enhanced
- 7-inch anti-reflection LCD screen
- PON online test module (1625nm) is optional
- MMF test module (850/1300nm) is optional
- Support multi-language display and input

Applications

- FTTX test with PON networks | CATV network testing
- Access network testing | LAN network testing
- Metro network testing | Lab and factory testing
- Live fiber troubleshooting



Standard Package List

- Main Unit, power adapter and lithium battery
- FC Adapter (optional: SC/ST/LC adapter)
- USB cord
- User Guide & CD / USB Disk
- Bare Fiber Adapter
- Carrying Case

OTDR Model Variations

Model Type	Testing Wavelength (SM: ±10nm)	Dynamic Range (dB)	Event / Attenuation Dead Zone (mtr)
001	1310/1550	32/30	1 8/8
002	1310/1550	37/35	1 8/8
003	1310/1550	42/40	0.8 8/8
004	1310/1550	45/42	0.8 8/8
005	1310/1490/1550	30/28/28	1.5 8/8/8
006	1310/1550/1625	30/28/28	1.5 8/8/8
007	1310/1490/1550	37/36/36	0.8 8/8/8
008	1310/1550/1625	37/36/36	0.8 8/8/8

Note: 6202-03XXX - XXX Denotes Model Type



Ordering Information

Product Number	Product Name	Testing Wavelength	Dynamic Range (dB)	Event / Attenuation Dead Zone (mtr)
6202-03001	DINTEK Optical Time Domain Reflectometer - Model No. 001	1310/1550	32/30	1 8/8
6202-03002	DINTEK Optical Time Domain Reflectometer - Model No. 002	1310/1550	37/35	1 8/8
6202-03003	DINTEK Optical Time Domain Reflectometer - Model No. 003	1310/1550	42/40	0.8 8/8
6202-03004	DINTEK Optical Time Domain Reflectometer - Model No. 004	1310/1550	45/42	0.8 8/8
6202-03005	DINTEK Optical Time Domain Reflectometer - Model No. 005	1310/1490/1550	30/28/28	1.5 8/8/8
6202-03006	DINTEK Optical Time Domain Reflectometer - Model No. 006	1310/1550/1625	30/28/28	1.5 8/8/8
6202-03007	DINTEK Optical Time Domain Reflectometer - Model No. 007	1310/1490/1550	37/36/36	0.8 8/8/8
6202-03008	DINTEK Optical Time Domain Reflectometer - Model No. 008	1310/1550/1625	37/36/36	0.8 8/8/8

Technical Specifications

Physical Specifications	
Dimension	253×168×73.6mm 1.5kg (battery included)
Display	7 inch TFT-LCD with LED backlight (touch screen function is optional)
Interface	1×RJ45 port, 3×USB port (USB 2.0, Type A USB×2, Type B USB×1)
Power Supply	10V(dc), 100V(ac) to 240V(ac), 50~60Hz
Battery	7.4V(dc)/4.4Ah 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 memory: 4GB (about 40,000 groups of curves)
Language	User selectable (English, Simplified Chinese, Traditional Chinese, French, Korean, Russian, Spanish and Portuguese - contact us for availability of others)
Environmental Conditions	Operating temperature and humidity: -10°C~+50°C, ≤95% (non-condensation); Storage temperature and humidity: -20°C~+75°C, ≤95% (non-condensation); Proof: IP65 (IEC60529)
Accessories	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, user guide, CD disk, carrying case optional: SC/ST/LC adapter, bare fiber adapter

Optical Specifications	
Pulse Width	Single mode: 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs
Testing Distance	Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km
Sampling Resolution Sampling Point	Minimum 5cm Maximum 128,000 points
Linearity	≤ 0.05dB/dB
Scale Indication	X axis: 4m-70m/div, Y axis: Minimum 0.09dB/div
Distance Resolution Distance Accuracy	0.01m ± (1m + measuring distance x 3 x 10 ⁻⁵ + sampling resolution) (excluding IOR uncertainty)
Reflectance Accuracy	Single mode: ±2dB, multi-mode: ±4dB
IOR Setting	1.4000-1.7000, 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 1.99dB (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

VFL Module (Visual Fault Locator Function)	
Wavelength (± 20 nm)	650 nm
Power	10mw, CLASS III B
Range	12 km
Connector	FC / UPC
Launching Mode	CW / 2 Hz

PM Module (Power Meter Function)	
Wavelength (± 20 nm)	800 - 1700 nm
Calibrated Wavelength	850 / 1300 / 1310 / 1490 / 1550 / 1625 / 1650 nm
Test Range	Type A: -65 ± 5 dBm (standard) Type B: -40 ± 23 dBm (optional)
Resolution Modulation Identification	0.01 dB 270 / 1k / 2 kHz, Pin put ≥ -40 dBm
Accuracy Connector	± 0.35dB ±1nW FC / UPC

LS Module (Laser Source Function)	
Working Wavelength (± 20 nm)	1310 / 1550 / 1625nm
Output Power	Adjustable -25 ~ 0dBm
Accuracy Connector	± 0.5dB FC / UPC

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