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OTDR OVERVIEW



KEY FEATURES:

- High-precision fault and splice detection
- Dual and quad wavelength testing options
- Built-in tools: VFL, OPM, OLS, Event Map
- Rugged design for field and lab environments
- Easy-to-use interface with auto test modes

OTDR solutions offer Our precise, efficient, and easy-touse testing tools for fiber optic telecom. networks across enterprise, FTTH and environments. Designed for both field and lab use, these devices enable accurate fault detection, link validation, and performance analysisensuring fiber vour infrastructure remains reliable, optimized, and future-ready.

WHY CHOOSE ECOMTELCO OTDRs?

- Versatile models for entrylevel to advanced diagnostics
- Integrated multi-tool design for all-in-one testing
- High dynamic range for long-distance measurements



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Entry-Level / Basic OTDRs



HIGHLIGHTS:

- Compact, pocket-sized design for maximum portability
- Intuitive interface with fast trace display
- Ideal for FTTH, last-mile, and quick field diagnostics
- Built for convenience, speed, and everyday use

MINI SMART M1000

The Mini Smart OTDR is a lightweight, multifunctional testing device tailored for quick and efficient fiber diagnostics. With a smartphone-like touch interface and integrated tools, it streamlines fault detection and fiber link verification—ideal for fast-paced field operations and FTTH installations.

KEY SPECIFICATIONS:

- Display: 4-inch capacitive touchscreen
- Dynamic Range: 22dB (up to 60km)
- Integrated Tools: 10mW VFL, OPM (-50 to +26dBm), OLS (±5dBm), Inbuilt Fiber Link Map
- Touch Operation: Multi-point, mobile-like navigation
- Online Testing Module: 1650nm optional
- Fast Test Response: Real-time trace refresh
- Weight: 280g
- Model: Grandway FHO1000M / M1000
- Color: Orange

MINI TELESONIC OTDR

The Mini Telesonic OTDR is a portable, high-efficiency fiber testing device designed for short to mid-range network diagnostics. With a rugged design, essential testing features, and intuitive performance, it's ideal for routine FTTH, LAN, and local loop troubleshooting in the field.

KEY SPECIFICATIONS:

- Wavelengths: 1310nm / 1550nm ±20nm
- Dynamic Range: 24dB (1310nm) / 22dB (1550nm)
- Test Range: 500m to 60km
- Event Blind Zone: 3m | ATT Blind Zone: 8m
- Pulse Width: 3ns to 10µs
- Ranging Accuracy: ±1m + 0.005 × test distance
- Display: 3.5-inch color LCD
- Data Storage: Internal (600 traces) + TF card support
- Weight: 350g



HIGHLIGHTS:

- Up to 12hrs measuring time with 20-hour standby
- Compact and rugged design for field use
- Accurate short-distance fault detection
- Supports FC, SC, and ST connectors
- Real-time trace response with standard SOR format



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- Fast auto fault and event detection
- Supports both single-mode & multi-mode fibers
- Portable and rugged for harsh field conditions
- Easy USB data export for report sharing
- Ideal for telecom, broadband, and lab testing

SMART OTDR (30/28) DB

The SMART OTDR (30/28) dB delivers fast, accurate testing for both single-mode and multi-mode fiber networks. Designed for field and lab environments, it features a large touchscreen interface, auto event detection, and USB-enabled data export. Built for durability and portability.

- Dynamic Range: 30dB (1310nm) / 28dB (1550nm)
- Wavelengths: 1310nm / 1550nm
- Pulse Width: 3ns to 20µs
- Event Dead Zone: ≤1m | Attenuation Dead Zone: ≤4m
- Display: 7-inch high-resolution color touchscreen
- Fiber Type: SM & MM supported
- Storage: 8GB internal + USB
- Weight: 1.0 kg
- Model: Telogica TELO-OTDR-321JJ

SMART OTDR (32/30) DB

The SMART OTDR (32/30) dB is a powerful fiber optic testing device built for accurate fault detection, loss analysis, and length measurement. With dual fiber support, a touchscreen interface, and fast response, it ensures efficient testing for telecom and broadband networks.

KEY SPECIFICATIONS:

- Dynamic Range: 32dB (1310nm) / 30dB (1550nm)
- Wavelengths: 1310nm / 1550nm
- Pulse Width: 3ns to 20µs
- Event Dead Zone: ≤1m | Attenuation Dead Zone: ≤4m
- Display: 7-inch high-resolution color touchscreen
- Fiber Type: SM & MM supported
- Storage: 8GB internal + USB
- Weight: 1.0 kg
- Model: Telogica ATTL-321A



HIGHLIGHTS:

- Accurate fault location with auto event detection
- Single-mode and multi-mode fiber compatibility
- Built for field durability and portability
- USB-enabled storage for easy data backup
- Ideal for telecom, broadband, and lab analysis





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- 6-in-1 fiber testing tool with accurate fault detection
- Long battery life for extended field testing
- Compact, rugged design for on-site use
- Simplified Auto Test for quick diagnostics

MINI OTDR D32

The Mini OTDR D32 is a lightweight yet highperformance fiber testing device with a dual 32dB dynamic range. It combines essential tools like OPM, VFL, OLS, Event Map, and Auto Test into one rugged unit. With up to 10 hours of battery life, it's ideal for fiber professionals working in telecom, ISP, and network installation environments.

KEY SPECIFICATIONS:

- Dynamic Range: 32dB @ 1310nm / 1550nm
- Wavelengths: 1310nm / 1550nm
- Built-in Tools: OTDR, OPM, VFL, OLS, Auto Test, Event Map
- Display: Touchscreen Interface
- Battery Life: Up to 10 hours
- Weight: 1.0 kg
- Model: Fibershot FS-MINI-D32
- Manufacturer: Star Infomatic Pvt. Ltd.

MINI OTDR D35

This delivers high-precision fiber testing with a powerful 35dB dynamic range across 1310nm and 1550nm wavelengths. With integrated tools like OPM, VFL, OLS, Event Map, and Auto Test, it's engineered for seamless installation, maintenance, and troubleshooting of fiber optic networks.

KEY SPECIFICATIONS:

- Dynamic Range: 35dB @ 1310nm / 1550nm
- Wavelengths: 1310nm / 1550nm
- Built-in Tools: OTDR, OPM, VFL, OLS, Auto Test, Event Map
- Display: Touchscreen Interface
- Battery Life: Up to 10 hours
- Weight: 1.5 kg
- Model: MINI-D35-OTDR
- Storage: Internal Memory + SD Card
- Connectivity: USB, WiFi (if available)



HIGHLIGHTS:

- 6-in-1 fiber testing solution with high accuracy
- Durable design optimized for outdoor/field use
- Touchscreen navigation for smooth user experience
- Includes PC software for report generation and trace analysis





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SCAN FOR MORE DETAILS FIFTH FLOOR OFFICE NO 39 NEAR BANSAL MALL ZILLION LANDMARK VADODARA 390004 GUJARAT, INDIA



- Precision fault detection for long-distance fiber
 cables
- Built for rugged field environments with handheld portability
- Intuitive touchscreen interface for fast navigation
- Extended battery life for full-day testing sessions

PRO-D35 OTDR

This is a feature-packed Optical Time Domain Reflectometer engineered for high-accuracy fiber network testing. It supports dynamic ranges of 35dB @ 1310nm and 33dB @ 1550nm, making it ideal for long-distance diagnostics. Equipped with built-in OPM, LS, VFL, Fiber Microscope (FM), and Power Meter (PM), it offers a complete fiber testing suite

KEY SPECIFICATIONS:

- Dynamic Range: 35dB @ 1310nm / 33dB @ 1550nm
- Wavelengths: 1310nm / 1550nm
- Display: 7-inch TFT color touchscreen
- Test Distance: 100m 240km
- Battery: 7400mAh Lithium, up to 12 hrs use
- Built-in Modules: OPM, LS, VFL, FM, PM
- Event Map: Yes (with breakpoints & joint analysis)
- Connectors: SC/PC, FC/PC, ST/PC
- Model: FS-PRO-D35
- Weight: 1.5 kg

Mid-Range OTDRs

HANDHELD OTDR (37/35)DB

This delivers advanced long-range fiber testing with precision and speed. With a powerful dynamic range of 37dB @1310nm and 35dB @1550nm, it ensures clear fault detection and signal loss analysis over extended distances. Designed for field engineers, this device features a 7-inch touchscreen, fast response time, rugged construction, and extended battery life for uninterrupted performance on-site.

KEY SPECIFICATIONS:

- Dynamic Range: 37dB @ 1310nm / 35dB @ 1550nm
- Wavelengths: 1310nm / 1550nm
- Display: 7-inch high-resolution color touchscreen
- Pulse Width: 3 ns 20 μs
- Event Dead Zone: ≤ 0.8m
- Attenuation Dead Zone: ≤ 3.5m
- Fiber Type: Single-mode (SM)
- Storage: 16 GB internal, USB expandable
- Weight: 1.5 kg



HIGHLIGHTS:

- Multi-functional fiber tester with all major diagnostic tools built-in
- High-resolution screen with user-friendly graphical interface
- Long-lasting battery for uninterrupted field work
- Rugged design with LED flashlight for night use





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- High dynamic range for long-haul
- Built-in power meter, fault locator & light source
- Auto event map for quick fault detection and joint identification
- Rugged design with flashlight for low-light tasks

PRO-D40 OTDR

This is a high-precision Optical Time Domain Reflectometer built for accurate long-distance fiber analysis. Featuring a dynamic range of 40dB @1310nm and 38dB @1550nm, it supports test lengths up to 240km. Designed for professional field use, it includes all essential diagnostic modules—OPM, LS, VFL, FM, and PM—in one compact unit.

KEY SPECIFICATIONS:

- Dynamic Range: 40dB @ 1310nm / 38dB @ 1550nm
- Wavelengths: 1310nm / 1550nm
- Test Distance: 100m 240km
- Display: 7-inch TFT touchscreen
- Battery: 7400mAh Lithium, up to 12 hrs use
- Built-in Modules: OPM, VFL, LS, FM, PM
- Connectors: SC/PC, FC/PC, ST/PC
- Model: PRO-D40-OTDR
- Weight: 1.5 kg

FH05000-D40 PR0

The FHO5000-D40 Pro is a professional-grade Optical Time Domain Reflectometer engineered for accurate fiber testing, diagnostics, and reporting. Housed in a rugged yellow shell, this unit combines OTDR functionality with inbuilt Optical Power Meter (OPM), Visual Fault Locator (VFL), and Optical Light Source (OLS) for a complete testing experience. Its 7-inch display ensures ease of use in the field, while the integrated PDF generator simplifies report creation for installation and maintenance tasks.

KEY SPECIFICATIONS:

- Model: FHO5000-D40 Pro
- Display: 7-inch color screen
- Built-in Modules: OPM, VFL, OLS, PDF Generator
- Weight: 1.50 kg
- Brand: Grandway
- Color: Yellow



HIGHLIGHTS:

- Integrated PDF report generation for quick documentation
- Large 7-inch display for clear test visualization
- Durable and portable design suited for field operations
- Ideal for fiber optic installation, testing, and maintenance





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High-Performance OTDRs

localization.

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HANDHELD (46/45) DB

This is a high-performance Optical Time Domain Reflectometer engineered for precise and reliable testing across long-distance single-mode fiber networks. With a powerful dynamic range of 46 dB at 1310 nm and 45 dB at 1550 nm, it ensures accurate

• Dynamic Range: 46 dB (1310 nm) / 45 dB (1550 nm)

Display: 7-inch high-resolution color touchscreen

Fiber Type Supported: Single-mode (SM)

and fault

event detection, loss measurement,

KEY SPECIFICATIONS:

Wavelengths: 1310 nm, 1550 nm

Event Dead Zone: ≤ 0.8 meters

Attenuation Dead Zone: ≤ 3.5 meters

Laser

Source

OPM

OTDR



HIGHLIGHTS:

- Auto event and fault detection with fast processing
- High-clarity 7" touchscreen for smooth field operation
- Large memory with USB support for flexible data management

D45 PRO (45/43) DB

This is a next-generation Optical Time Domain Reflectometer tailored for high-precision fiber optic network diagnostics. With a powerful dynamic range of 45dB at 1310nm and 43dB at 1550nm, it delivers longdistance fault localization, loss measurement, and accurate link assessment.

KEY SPECIFICATIONS:

- Model: Pro-D45-OTDR
- Wavelengths: 1310nm / 1550nm
- Dynamic Range: 45dB @1310nm / 43dB @1550nm
- Test Distance: 100m to 240km
- Display: 7-inch TFT Touchscreen
- Built-in Tools: OPM, VFL, LS, FM, PM
- RJ45 TDR Cable Tester: Yes
- Connector Types: SC/PC, FC/PC, ST/PC
- Weight: 1.50 kg
- Brand: Fibershot



Laser

OPM

End Fac

VFL

HIGHLIGHTS:

- High dynamic range (45/43dB) for long-range fiber analysis
- Event Map Visualization: Shows fiber length, loss points, joints, and breaks
- Advanced Test Modes: Multiple measurement algorithms with pass/fail criteria
- RJ45 TDR Cable Tester: Identifies faults in network cables and UTP lines





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PON & Triple Wavelength OTDRs



HIGHLIGHTS:

- Live fiber testing without service disruption
- Multi-wavelength PON analysis in one device
- Long battery life for extended field use
- Compact, rugged, and technician-friendly design
- USB and Wi-Fi connectivity for easy data handling

PON OTDR (37/35/35)

The PON OTDR is designed for accurate, non-intrusive testing of Passive Optical Networks. With triple-wavelength support (1310/1550/1625 nm) and a dynamic range of 37/35/35 dB, it enables reliable fault detection and loss measurement on live fibers. Its portable build, high-resolution touchscreen, and long battery life make it ideal for telecom and FTTH professionals.

KEY SPECIFICATIONS:

- Dynamic Range: 37dB (1310nm) / 35dB (1550nm & 1625nm)
- Wavelengths: 1310nm, 1550nm, 1625nm
- Fiber Type: Single-mode (SM)
- Event Dead Zone: ≤ 0.8 meters
- Attenuation Dead Zone: ≤ 3.5 meters
- Display: 7-inch high-resolution color touchscreen
- Storage: 16 GB internal memory, USB expandable
- Connectivity: USB and Wi-Fi support

PRO-T40 OTDR

The Pro-T40 OTDR is a powerful triple-wavelength fiber testing solution designed for passive optical networks and long-range fiber diagnostics. With dynamic ranges of 40/38/38 dB at 1310/1550/1625nm, it ensures accurate event detection, signal loss measurement, and fiber link verification. Packed with essential tools like OPM, OLS, VFL, FM, and EFD, it's built for professional field operations.

KEY SPECIFICATIONS:

- Wavelengths: 1310nm (40dB), 1550nm (38dB), 1625nm (38dB)
- Fiber Type: Singlemode (100m–240km) / Multimode (500m–40km)
- Built-in Tools: OPM, OLS, VFL, FM, EFD
- Display: 7-inch Touchscreen Interface
- Battery: 4400mAh Lithium (12-hour operation)
- Connectors: SC/PC, FC/PC, ST/PC
- Rugged Design: Field-ready with compact build



HIGHLIGHTS:

- Triple-wavelength OTDR with advanced fiber diagnostics
- Built-in modules for power testing, fault location & visual inspection
- Long-range fiber testing with high dynamic range (up to 240km)

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- Built-in modules for complete fiber power and fault testing
- Rugged, lightweight design ideal for field engineers
- Long-distance and live PON network testing
- Touchscreen interface with smart event analysis

PRO-T45 OTDR

The Pro-T45 OTDR delivers powerful triplewavelength testing at 1310nm (45dB), 1550nm (43dB), and 1625nm (43dB) for accurate fault detection and network performance analysis. Designed for professional telecom and fiber engineers, it integrates essential diagnostic tools like OPM, OLS, VFL, FM, and EFD—all in a compact, field-ready device with a 7" touchscreen and 12-hour battery life.

KEY SPECIFICATIONS:

- Wavelengths: 1310nm (45dB), 1550nm (43dB), 1625nm (43dB)
- Dynamic Range: 45/43/43 dB for high-accuracy
- Max Range: 240km (SM) / 40km (MM)
- Integrated Tools: OPM, OLS, VFL, FM, EFD
- Display: 7-inch Touchscreen with Event Map & Pass/Fail Analysis
- Battery: 4400mAh Lithium
- Connectors: SC/PC, FC/PC, ST/PC

Multi Mode & QUAD Wavelength OTDRs

MULTI MODE OTDR (37/35/26/35)

The MULTI MODE OTDR (37/35/26/35) is engineered for comprehensive fiber optic diagnostics across both single-mode and multi-mode networks. With wide dynamic range and four-wavelength support, it provides precise fault detection, signal loss measurement, and performance analysis for shortand long-distance links. Ideal for telecom, LAN, data centers, and FTTH deployments.

KEY SPECIFICATIONS:

- Dynamic Range: 37 dB (1310 nm), 35 dB (1550 nm), 26 dB (850 nm), 35 dB (1300 nm)
- Fiber Support: Single-mode (SM) & Multi-mode (MM)
- Wavelengths: 850, 1300, 1310, 1550 nm
- Display: 7-inch high-resolution color touchscreen
- Event Dead Zone: ≤ 0.8 meters
- Attenuation Dead Zone: ≤ 3.5 meters
- Pulse Width: 3 ns to 20 µs



HIGHLIGHTS:

- Dual-mode fiber support for complete network compatibility
- Four-wavelength testing for detailed signal analysis
- Lightweight and portable—ideal for field engineers
- Fast fault location with intuitive touchscreen interface





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- Quad-wavelength OTDR
- High dynamic range ensures accurate loss and reflectance measurements
- Intelligent event mapping for quick fault detection
- Lightweight, portable, and durable
- Supports multi-language interface

PRO-MD21 OTDR

This is a rugged, high-performance optical time domain reflectometer designed for thorough fiber network diagnostics. Featuring quad wavelengths— 850nm, 1300nm, 1310nm, and 1550nm—it supports both single-mode and multi-mode fibers, making it ideal for versatile field applications in telecom, data centers, and enterprise networks.

KEY SPECIFICATIONS:

- Wavelengths: 850nm (21dB), 1300nm (19dB), 1310nm (37dB), 1550nm (35dB)
- Built-in Modules: OTDR, OLS, VFL, OPM, FLM (Event Map), EFD
- Display: 7" Anti-Reflection LCD for outdoor visibility
- Durability: IP65-rated for dust and splash resistance
- Connector Compatibility: SC, ST, FC, LC (UPC & APC)
- Weight: 1.5 kg

PRO-MD22 OTDR

The is a rugged, all-in-one solution engineered for professional fiber optic network testing. Designed to support both single-mode and multi-mode fibers, it features quad-wavelength capability (850nm, 1300nm, 1310nm, and 1550nm) for complete fiber diagnostics. With high dynamic ranges of up to 41dB, advanced measurement accuracy, and built-in multi-functional modules.

KEY SPECIFICATIONS:

- Wavelength Support: 850nm (22dB), 1300nm (20dB), 1310nm (41dB), 1550nm (39dB)
- Fiber Types: Single-mode & Multi-mode (50/125µm, 62.5/125µm, 100/140µm)
- Display: 7-inch TFT Touchscreen (anti-reflection)
- IP Rating: IP65-rated (dustproof and waterresistant)
- Connector Compatibility: SC, ST, FC, LC (UPC & APC)



HIGHLIGHTS:

- Precise fault detection, length analysis & signal loss evaluation
- Rugged field-ready design with intuitive touchscreen interface
- Universal connector support for diverse fiber network types





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Compact Multifunctional OTDRs



HIGHLIGHTS:

- All-in-One Fiber & Ethernet Testing
- Fast, Reliable Results: Real-time fault analysis with internal storage for future access
- Portable & Field-Ready: Lightweight and durable, ideal for on-site telecom work
- Broad Compatibility: Supports the most common connector types used in fiber networks

MICRO OTDR-II

The Micro OTDR-II is a compact and highly efficient solution for fiber optic and Ethernet cable diagnostics. Engineered for single-mode networks, it features dual-wavelength OTDR testing (1310nm @ 26dB / 1550nm @ 24dB) and combines six essential tools in one portable unit. Ideal for FTTH, broadband, cable TV, and CCTV systems, it delivers precise fault detection, real-time analysis, and versatile connector compatibility—all in a lightweight body under 0.6kg.

KEY SPECIFICATIONS:

- Test Wavelengths: 1310nm (26dB), 1550nm (24dB)
- Connector Support: UPC SC, ST, FC, LC
- Range: -50 to +26dBm; Calibrated for 850/1300/1310/1490/1550/1625/1650nm
- VFL Output: 10mW @ 650nm
- RJ45 Testing: Cable sequence tester and network cable fault detection (>300m)
- Storage & Interface: Internal memory, external memory card slot, Micro USB port
- Weight: 0.55 kg







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