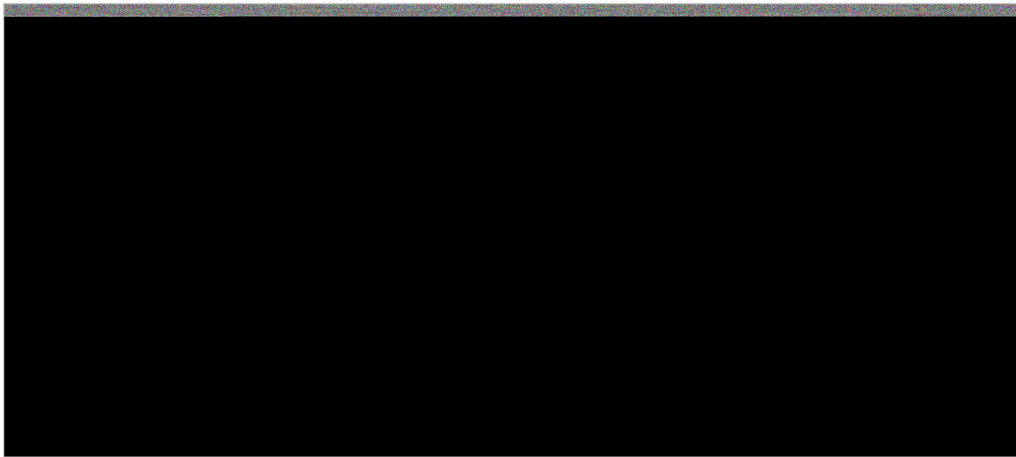
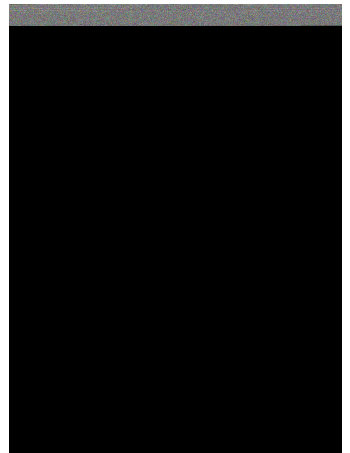


General Description

The PDR Nano OTDR is an ultra-compact, 4-in-1 handheld test instrument combining an Optical Time Domain Reflectometer (OTDR), Optical Power Meter (OPM), Optical Light Source (OLS), and Visual Fault Locator (VFL) in a single pocket-sized device. Operating at 1550 nm with a 22 dB dynamic range, it delivers fast and accurate fibre characterisation for FTTH, telecom, railway, and ISP networks. The device pairs wirelessly with Android smartphones via the dedicated Smart-OTDR app, providing real-time trace display, loss analysis, and ORL measurement on a familiar touchscreen interface. Its USB-C rechargeable 1000 mAh battery and nano form factor make it ideal for rapid field testing and fault localisation.



Smart-OTDR smartphone app — real-time trace display, loss analysis and ORL measurement on Android

Key Features

- 4 in 1 — OTDR + OPM + OLS + VFL combined in a single pocket-sized instrument
- Handheld, pocket-sized, and extra compact for true field portability
- 1550 nm wavelength with 22 dB dynamic range for comprehensive fibre testing
- Distance range up to 80 km with pulse widths from 5 ns to 20 μ s
- Integrated with Mobile Application — Smart-OTDR app for Android
- OPM function: +26 to -50 dBm across 10 wavelengths (850–1650 nm)
- VFL function: 20 mW output for quick visual fault detection
- USB-C rechargeable 1000 mAh lithium-ion battery for field operation
- Ultra-lightweight at approx. 100 g for all-day comfortable use
- Excellent for field operations in telecom, FTTx, railway, and ISP networks

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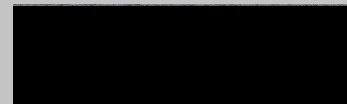
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Technical Specifications

Parameter	Specification
Fiber Type	Single-Mode (ITU-T G.652 / G.657)
Wavelength	1550 nm
Dynamic Range	22 dB
Distance Range	Max. 80 km
OTDR Connector	SC/UPC
Pulse Width	5 ns – 20 µs
Event Dead Zone	2 m (typical)
Attenuation Dead Zone	8 m (typical)
OLS Function	Same wavelength and connector as OTDR
OPM Function	+26 to –50 dBm 850 / 980 / 1270 / 1300 / 1310 / 1490 / 1550 / 1577 / 1625 / 1650 nm 2.5 mm UPC
VFL Function	20 mW 2.5 mm UPC
App Compatibility	Android (Smart-OTDR app via Bluetooth / Wi-Fi)
Power Supply	3.7 V, 1000 mAh Li-ion USB Type-C charging
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +70°C
Dimensions (L×W×H)	102 mm × 72 mm × 17 mm
Weight	Approx. 100 g

Applications

- Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) acceptance testing
- Telecommunications network construction, commissioning, and maintenance
- Railway and industrial fibre optic communication systems
- ISP and broadband passive optical network (PON) verification
- Data centre interconnect fibre certification and fault localisation
- Field restoration and emergency repair of damaged fibre optic links

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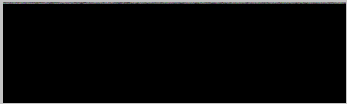
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Ordering Information

Standard Package Contents

Item	Quantity
Nano OTDR Unit	1
USB Type-C Charging Cable	1
User Manual	1

Optional Accessories

Optional Accessory	Notes
SC/APC Adapter	For SC/APC connector compatibility
Additional Connector Adapters	FC, LC, ST — on request

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