



OTDR FOR OPTICAL FIBRE

OPTICAL REFLECTOMETERS FOR 850, 1300, 1310, 1550 AND 1625 nm
UP TO 8 GB OF STORAGE CAPACITY FOR MEASUREMENT DATA

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PROLITE-53B

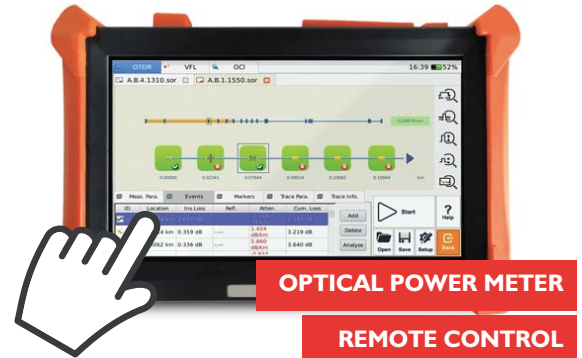
SINGLE & AND MULTIMODE OTDR (850, 1300, 1310, 1550 nm) WITH VISUAL FAULT LOCATOR (VFL) AND 10 H OF AUTONOMY

Includes optical power meter (OPM) and Ethernet remote control

The PROLITE-53B ORDRs allow performing automatic or manual tests and feature smart, multifunctional analysis.

Their ergonomic design allows users to easily hold them thanks to its handle. The 8 GB internal memory allow to store data that can be copied and processed in the PC to generate reports and analysis over the measurements. It allows connecting external storage USB devices.

The PROLITE-53B introduces exclusive features for an OTDR, such as the ability of controlling the device via an external USB keyboard and mouse.



WAVELENGTHS

850, 1300 nm (MM) and 1310, 1550 nm (SM) (± 20 nm)

FIBER TYPE

Single mode (SM) and Multi mode (MM)

INTERNAL MEMORY

8 GB

PC CONNECTION

USB port, Ethernet RJ45

- ✓ Selectable margins: 1.3 to 240 km (SM) / 1.3 to 40 km (MM)
- ✓ Event dead zone: 0.8 m
- ✓ Attenuation dead zones: 4,5 m / 4,5 m / 4 m / 4 m
- ✓ Pulse width: 5 ns to 20 μ s (SM) / 5 ns to 2,5 μ s
- ✓ Screen: Touchscren 8" LCD
- ✓ Battery operation time: 10 h

PROLITE-51B

SINGLE MODE OTDR (1310/1550/1625 nm) WITH VISUAL FAULT LOCATOR (VFL) AND 10 H OF AUTONOMY

WAVELENGTHS

1310, 1550 and 1625 nm (± 20 nm)

FIBER TYPE

Single mode

INTERNAL MEMORY

2 GB (expandable via USB *pendrives*)

PC CONNECTION

USB port, Ethernet RJ45

- ✓ Selectable margins: 1.3 / 2.5 / 8 / 10 / 20 / 40 / 80 / 160 / 240 km
- ✓ Event dead zone: 0.8 m
- ✓ Attenuation dead zone: 4 m
- ✓ Pulse width: 5 ns / 10 ns / 30 ns / 100 ns / 300 ns
1 μ s / 2,5 μ s / 10 μ s / 20 μ s



PROLITE-50B / 52

COMPACT AND SINGLE MODE (1310,1550,1625 nm) WITH 8 H OF BATTERY OPERATION TIME

The perfect tool for field work

They are the perfect tool for the characterisation of optical fibers, from a single cable up to a large network evaluation.

It is perfect to use both in field and laboratory, as well in fiber manufacturing and network deployment or maintenance.

They allow storing and transferring the distribution curves to a PC. The included software allows it analysis and including them in reports and printing out them.



| | | |
|--|-------------------------------|--|
| WAVELENGTHS 1310, 1550 nm (PROLITE-50B) 1625 nm (PROLITE-52) | Selectable margins: | 0.3 / 1.3 / 2.5 / 5 / 10 / 20 / 40 / 80 / 160 / 240 km y 120 km (PROLITE-52) |
| FIBER TYPE Single mode | Event dead zone: | 2.5 m (PROLITE-50B), 0.8 m (PROLITE-52) |
| INTERNAL MEMORY 1000 records storage capacity | Attenuation dead zone: | 8 m (PROLITE-50B), 4.5 m (PROLITE-52) |
| PC CONNECTION USB port | Pulse width (PL-50B): | 30 / 100 / 300 ns; 1 / 2.5 μs |
| | Pulse width (PL-52): | 5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 μs |
| | PON module: | PROLITE-52 |

ASK YOUR DEALER FOR PROMAX LAUNCH CABLES ESSENTIAL TO WORK WITH OTDRs



| | PROLITE-53B | PROLITE-52 | PROLITE-51B | PROLITE-50B |
|------------------------|-------------------------------|--------------------|-----------------------|--------------------|
| WAVELENGTHS (±20 nm) | 850/1300 (MM), 1310/1550 (SM) | 1625 nm | 1310 / 1550 / 1625 nm | 1310 / 1550 nm |
| DYNAMIC RANGE | 23 / 28 / 38 / 36 dB | 37 dB | 43 / 42 / 42 dB | 28 / 28 dB |
| FIBER TYPE | SM / MM | SM | SM | SM |
| VISUAL FAULT LOCATOR | Included | - | Included | - |
| SELECTABLE MARGINS | From 1.3 to 240 km | From 0.3 to 240 km | From 1.3 to 240 km | From 0.3 to 240 km |
| STORAGE | 8 GB | 1000 records | 2 GB | 1000 records |
| SCREEN | Touch screen 8" TFT | 3.5" TFT LCD | Touch screen 8" TFT | 3.5" TFT LCD |
| CONNECTIVITY | 2xUSB, 1xRJ45 | USB | 2xUSB, 1xRJ45 | USB |
| BATTERY OPERATION TIME | 10 h | 8 h | 10 h | 8 h |



| SPECIFICATIONS | PROLITE-50B | PROLITE-51B | PROLITE-52 | PROLITE-53B |
|---|--|--|--|---|
| WAVELENGTHS (± 20 nm) | 1310 / 1550 nm | 1310 / 1550 / 1625 nm | 1625 nm | 850/1300 (MM), 1310/1550 (SM) |
| DYNAMIC RANGE | 28 / 28 dB | 43 / 42 / 42 dB | 37 dB | 23 / 28 / 38 / 36 dB |
| FIBER TYPE | Singlemode | Singlemode | Singlemode | Singlemode (SM), Multimode (MM) |
| DEAD ZONE EDZ (event) ADZ (attenuation) | 2.5 m 8 m | 0.8 m 4 m | 1.5 m 10 m | 1 m 4.5 / 4.5 / 4 / 4 m |
| ACCURACY Distance measurement Attenuation detection Reflection detection | $\pm(1\text{m} \times 5 \times 10^{-5} \times \text{Dist.} + \text{sample space})$ ± 0.05 dB / dB ± 4 dB | $\pm(1\text{m} \times 5 \times 10^{-5} \times \text{Dist.} + \text{sample space})$ ± 0.05 dB / dB ± 4 dB | $\pm(1\text{m} \times 5 \times 10^{-5} \times \text{Dist.} + \text{sample space})$ ± 0.05 dB / dB ± 4 dB | $\pm(1\text{m} \times 10^{-5} \times \text{Dist.} + \text{sample space})$ ± 0.05 dB / dB ± 4 dB |
| CONNECTOR TYPE | SC/APC Interchangeable SC, FC, ST, LC | SC/APC Interchangeable SC, FC, ST, LC | SC/APC Interchangeable SC, FC, ST, LC | SC/APC (SM), SC/UPC (MM) Interchangeable SC, FC, ST, LC |
| VISUAL FAULT LOCATOR (VFL) Output power Modulation Detection distance | - - - | ≥ -3 dBm 1 Hz 5 km | - - - | ≥ -3 dBm 1 Hz 5 km |
| SELECTABLE MARGINS Single mode fibre Multi mode fibre | 0.3 / 1.3 / 2.5 / 5 / 10 20 / 40 / 80 / 160 / 240 km - | 1.3 / 2.5 / 8 / 10 / 20 / 40 / 80 160 / 240 km - | 0.3 / 1.3 / 2.5 / 5 / 10 / 20 / 40 80 / 120 / 160 / 240 km - | 1.3 / 2.5 / 5 / 10 / 20 / 40 / 80 160 / 240 km 1.3 / 2.5 / 5 / 10 / 20 / 40 km |
| PULSE WIDTH Single mode fibre Multi mode fibre | 30 / 100 / 300 ns 1 μ s / 2.5 μ s - | 5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 μ s - | 5 / 10 / 12 / 30 / 100 / 275 / 300 ns 1 / 2.5 / 10 / 20 μ s - | 5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 μ s 5 / 10 / 30 ns - 1 / 2.5 μ s |
| STORAGE CAPACITY | 1000 records | 2 GB | 1000 records | 8 GB |
| SCREEN | TFT LCD 3.5" | 7" touch screen TFT | TFT LCD 3.5" | TFT Táctil 8" |
| AVERAGE TIME | 15 / 30 / 60 / 120 / 180 s | Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s | 15 / 30 / 60 / 120 / 180 s | Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s |
| OPTICAL POWER METER | - | - | - | Included |
| CONNECTIVITY | USB | 2x USB, 1x 10/100 Mbps RJ45 | USB | 2x USB, 1x 10/100 Mbps RJ45 |
| POWER SUPPLY | Rechargeable battery or AC adapter | | | |
| BATTERY OPERATION TIME | 8 h | 10 h | 8 h | 10 h |
| DIMENSIONS AND WEIGHT | 110 x 220 x 70 mm / 1 kg | 220 x 110 x 70 mm / 2,1 kg | 110 x 220 x 70 mm / 1 kg | 235 x 159 x 75 mm / 1.5 kg |



| LAUNCH CABLES | AF-016 | AF-017 | AF-018 |
|--------------------|----------------------|------------------------|----------------------|
| FIBER TYPE | Singlemode | Multimode | Singlemode |
| LENGTH | 150 m | 150 m | 1000 m |
| CONNECTORS | SC/SC | SC/SC | SC/SC |
| WAVELENGTH | From 1310 to 1650 nm | From 850 nm to 1300 nm | From 1310 to 1650 nm |
| ATTENUATION | -0.3 dB/km max. | -0.9 dB/km max. | -0.3 dB/km max. |
| CONNECTOR LIFETIME | > 1000 mating cycles | > 1000 mating cycles | > 1000 mating cycles |