



# OTDR FOR OPTICAL FIBRE

OPTICAL REFLECTOMETERS FOR 850, 1300, 1310, 1550 AND 1625 nm  
UP TO 2 GB OF STORAGE CAPACITY FOR MEASUREMENT DATA

[www.promaxelectronics.com](http://www.promaxelectronics.com)



# PROLITE-53

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

### Quadruple wavelength with extra large touch screen

The **PROLITE-53** 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 2 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-53** 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) ( $\pm 20$  nm)

#### FIBER TYPE

Single mode (SM) and Multi mode (MM)

#### 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:** 1 m
- ✓ **Attenuation dead zones:** 4.5 m / 4.5 m / 4 m / 4 m
- ✓ **Pulse width:** 5 ns / 10 ns / 30 ns / 100 ns / 300 ns  
1  $\mu$ s / 2.5  $\mu$ s / 10  $\mu$ s / 20  $\mu$ s
- ✓ **Screen:** Touchscreen 7" 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 y 1625 nm ( $\pm 20$  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  $\mu$ s / 2.5  $\mu$ s / 10  $\mu$ s / 20  $\mu$ 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)

#### FIBER TYPE

Single mode

#### INTERNAL MEMORY

1000 records storage capacity

#### PC CONNECTION

USB port

- ✓ **Selectable margins:** 0.3 / 1.3 / 2.5 / 5 / 10 / 20 / 40 / 80 / 160 / 240 km y 120 km (PROLITE-52)
- ✓ **Event dead zone:** 2.5 m (PROLITE-50B), 0.8 m (PROLITE-52)
- ✓ **Attenuation dead zone:** 8 m (PROLITE-50B), 4.5 m (PROLITE-52)
- ✓ **Pulse width (PL-50B):** 30 / 100 / 300 ns; 1 / 2.5  $\mu$ s
- ✓ **Pulse width (PL-52):** 5 / 10 / 30 / 100 / 300 ns  
1 / 2.5 / 10 / 20  $\mu$ s
- ✓ **PON module:** PROLITE-52

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



	PROLITE-53	PROLITE-52	PROLITE-51B	PROLITE-50B
WAVELENGTHS ( $\pm 20$ 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	Singlemode (SM)	Singlemode (SM)	Singlemode (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	2 GB	1000 records	2 GB	1000 records
SCREEN	Touch screen 7" TFT	3.5" TFT LCD	Touch screen 7" TFT	3.5" TFT LCD
CONNECTIVITY	2xUSB, 1xRJ45	USB	2xUSB, 1xRJ45	USB
BATTERY OPERATION TIME	10 h	8 h	10 h	10 h



SPECIFICATIONS	PROLITE-50B	PROLITE-51B	PROLITE-52	PROLITE-53
WAVELENGTHS ( $\pm 20$ 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	0.8 m 4.5 m	1 m 4.5 / 4.5 / 4 / 4 m
ACCURACY Distance measurement Attenuation detection Reflection detection	$\pm(1 \text{ m} \times 5 \times 10^{-5} \times \text{Distance} + \text{sampling space})$ $\pm 0.05 \text{ dB} / \text{dB}$ $\pm 4 \text{ dB}$			
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	- - -	$\geq -3 \text{ dBm}$ 1 Hz 5 km	- - -	$\geq -3 \text{ dBm}$ 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 / 8 / 10 / 20 / 40 / 80 160 / 240 km 1.3 / 2.5 / 8 / 10 / 20 / 40 km
PULSE WIDTH Single mode fibre Multi mode fibre	30 / 100 / 300 ns 1 $\mu\text{s}$ / 2.5 $\mu\text{s}$ -	5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 $\mu\text{s}$ -	5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 $\mu\text{s}$ -	5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 $\mu\text{s}$ 5 / 10 / 30 ns - 1 / 2.5 $\mu\text{s}$
STORAGE CAPACITY	1000 records	2 GB	1000 records	2 GB
SCREEN	3.5" TFT LCD	7" touch screen TFT	TFT LCD 3,5"	7" touch screen TFT
AVERAGE TIME	15 / 30 / 60 / 120 / 180 s	Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s	Quick / 15 / 30 / 60 / 120 / 180 s	Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s
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
MECHANICAL FEATURES Dimensions (W. x H. x D.) 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	220 x 110 x 70 mm 2.1 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

