MT-7610A

OPTICAL TIME DOMAIN REFLECTOMETER

MT-7610 is an advanced diagnostic tool for optical fibers to help engineers quickly troubleshoot problems, allowing them to visually locate reflective events like connections and fiber breaks and non-reflective events like splices and tight bends by studying the graphical trace.

FEATURES:

- Automatic one-button testing, **wavelength support 1310, 1550nm.**
- Palm design, small, lightweight, easy to carry.
- High contrast **3.5 inch color TFT LCD.**
- Detect short dead zone event accurately .
- High speed signal processing, **short test time and fast analysis.**
- **USB port** connect to PC for software update and data output.
- User-friendly **OTDR simulation software** shows details of events.
- Built-in **visual fault locator** function.
- Comes with **rechargeable lithium polymer battery**, support max 8 working hours.

Measure Info: 1550nm 2.0Km 10ns
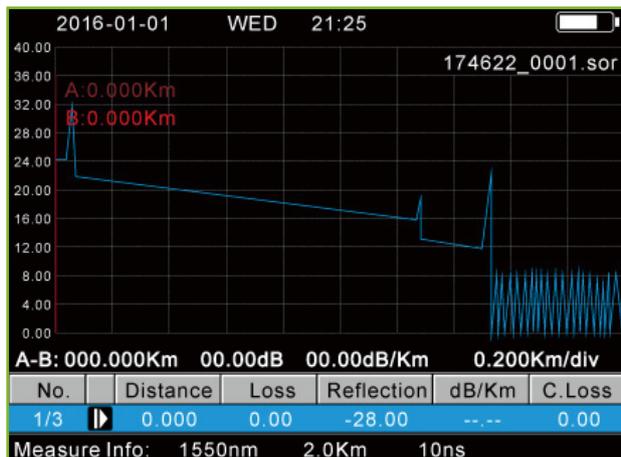
Measurement Interface

- There are 10x10 grid in waveform region, Horizontal grids mean distance, vertical grids mean dB value, As shown in figure, each horizontal grid represents 0.2KM, each vertical grid represents 4dB.
- MT-7610 contains 4GB micro SD card for data storage and also allows to link to PC for records output.

Event List

No.		Dis.	Loss	Ref.	dB/Km	C.Loss
1/6	▶	0.000	0.00	-51.74	-.--	0.00
2/6	↰	0.940	0.08	-51.74	0.24	0.26
3/6	⌐	4.301	0.12	-54.67	0.28	1.18
4/6	M	5.589	-.--	-.--	-.--	-.--
5/6	⌐	18.712	-0.05	-41.03	0.22	4.07
6/6	◀	39.809	-.--	-46.02	0.21	9.41

Press key ENTER to locate the corresponding event.

Event list

▶ **Optic fiber start**

↰ **Reflection event**

⌐ **Attenuation event**

M **Merged event**

⌐ **Gain event**

◀ **Optic fiber ending**

For charging Lithium battery

USB port and Mirco SD card for software update and data output

Accessories

Adjustable back tilt device with hook-up

Model no.	MT-7610A
Optical fiber type	SM optical fiber
Dynamic range	24dB(1310nm) / 22dB(1550nm)
Wavelength	1310nm±20nm, 1550nm±20nm
Optical fiber connector	FC/PC, (SC/PC、ST/PC Optional)
Display	3.5 inch color LCD
Display resolution	320x240
Measuring distance (km)	0.37~80
Distance uncertainty (m)	±(0.8+0.005%*distance+Sampling resolution)
Pluse width	10ns~10us
Measurement time	5s~180s
Attenuation blind area	15m(@minimum plus width)
Event blind area	3m(@minimum plus width)
Loss threshold (db)	0.05dB
Loss resolution (db)	0.01dB
Sampling resolution (m)	0.4 to 1.6
Sampling points	Up to 70866
Typical real-time refresh (hz)	2
Data storage	Micro SD card(4GB), support 16GB, 25000records
Communication connector	Mini USB
VFL power	1mW(650nm±10nm)
Power source	Rechargeable lithium polymer battery 7.4v 3100mAh
Battery working time	standby>15hours, continuous measuring>8 hours
Adaptor	Input AC 100~240 50/60Hz; Output: DC10.5V/1.9A
Auto power off	Y
Low battery warning	Indication for low battery energy
Operation voice prompts	N
Back light	Y
Operation temperature	0~+50°C; <90%RH
Storage temperature	-20~+70°C; <90%RH
Size	195mm×110mm×60mm / 7.7"x4.3"x2.4"
Weight	600g
Package	Color box

The sampling resolution is as follows:
- 30km below (including 30km) sampling resolution is 0.4m
- 30~60km (including 60km) sampling resolution is 0.8m
- above 60km sampling resolution is 1.6m