WANGLU®

TECHNOLOGY

MT-7300 Plus | Multi-functions Optical Time Domain Reflectometer

- ◆ Handheld, lightweight and convenience for carrying
- ◆38dB high dynamic range
- ◆ ≤2m extra-short event dead zone
- ◆ 0.05m high distance resolution,128k sampling points
- ◆ Fast auto measurement, one-button operating
- ◆Test up to four wavelengths with a single unit
- ◆Communication light check automatically
- ◆Remote function via Ethernet
- ◆USB interfaces, supporting USB stick and printer and direct cable download to PC via ActiveSync
- ◆Supporting Bellcore GR196 file format in writing or reading
- ◆ Built-in lithium battery with high capacity for over 8 hours of operating life
- ◆Integrated Visible fault locating (VFL)

Features

- Automatic Measurement Mode: Only by selecting the measurement wavelength, the measurement parameters are automatically set, and the trace data is automatically saved and automatically analyzed.
- Multi-wavelength Measurement Mode: In the parameter setting, the wavelength can be automatically switched into the multi-wavelength measurement mode. Under this mode, the analysis can be achieved on the attenuation state of the same fiber section under different wavelengths.
- Trace Fixing Function: It can achieve the same-screen comparison and display of one trace with another real-time trace or the trace under the average measurement, which is very useful for the installation of multi-core fiber or the checking of the aged fiber in the optical fiber network already been installed.
- Multi-wavelength Analysis Function: It can achieve the comparison, display and analysis functions of any trace file.
- FTTx online testing, able to identify the splitter and the fiber's end.
- Large-capacity lithium-ion rechargeable battery, with the long standby time over 8 hours.
- Bellcore file format (.sor), with the storage of greater than 10,000 traces.
- Communication Light Detection: It can effectively protect the test instrumentation and communication equipments.
- Connection State Detection: To promptly know the connection status of the instrumentation and the fiber for test.
- The Switching of Measurement Mode: Through the shortcut key operation, it can achieve the flexible switching of real-time measurement mode and average measurement mode.

OTDR Traces Manager PC software:

- To achieve easily the function of bulk amendment and batch printing.
- Able to generate different forms of test reports according to user needs.
- To provide various flexible printing modes: The single-page single-trace printing mode, the batch printing mode, the single-page multi-trace printing mode, the printing mode of multi-waveform display. To provide the personalized selection of printing options and page setup.

- The Function of Waveform Difference Comparison: It can open several waveforms in the same window, making more easily the comparison of parameter change caused by fiber aging or other reasons.

Specifications

Technical Specifications	**MT-7300 Plus**									
Wavelength (nm)	850/1300	1310/1550				1310/1490/1550		1625		
Dynamic range (dB)[2]	23/21	32/30	34/32	36/34	38/36	34/32/32	38/36/36	30[4]	32[5]	34[4]	36[5]
Pulse width (ns)	5,20,40,80,160,320,640,1280	5,20,40,80,160,320,640,1280,2560,5120,10240,20480								
Event dead zone (m)[3]	2m	2m								
Attenuation dead zone (m)[3]	9m	9m								
Linearity (dB/dB)	±0.05 dB/ dB									
Loss threshold (dB)	0.05									
Loss resolution ratio (dB)	0.01									
Sampling resolution ratio (m)	0.125 to 8									
Sampling point	32K									
Distance uncertainty (m)	±(1 m + 5×10^{-5}×distance + sampling interval)									
Distance scope (km)	0.3 to180									
Typical real-time refreshing duration (s)	0.2									
Memory capacity of trace	SD Card (2G), > 10000 pieces									
Duration of measurement	Defined by user; 5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable									

General specification			**Interface category**	
Dimension (H×W×D)	150×235×66		Optical interface	FC/UPC (PC, and APC are selectable)
Weight	1.5kg		Data interface	USB interface, SD card interface
Temperature	Running temperature -10℃ to 50℃			
	Memory temperature -40℃ to 70℃		**Visible failure orientation VFL**	
Relative humidity	0% to 95% (non condensation)		Wavelength	650nm
Power supply	Lithium battery; continuing working duration ≥ 8 hours		Output power (dBm)	≥-3
Warranty period	12 months		Maximum testing distance	3km

Remarks: 1. The technical specification describes the ensured performance of the instrument when using typical PC model

connector to measure. Without considering the uncertainty caused by optical fiber refractivity.

2. Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 180km/20480ns/3min.

3. Measuring conditions of blind zone: reflection event is within 4Km, reflection strength < -35dB. Measured by the minimum pulse width.

4. Dynamic range measured when there is filter.

5. Dynamic range measured when there is no filter.