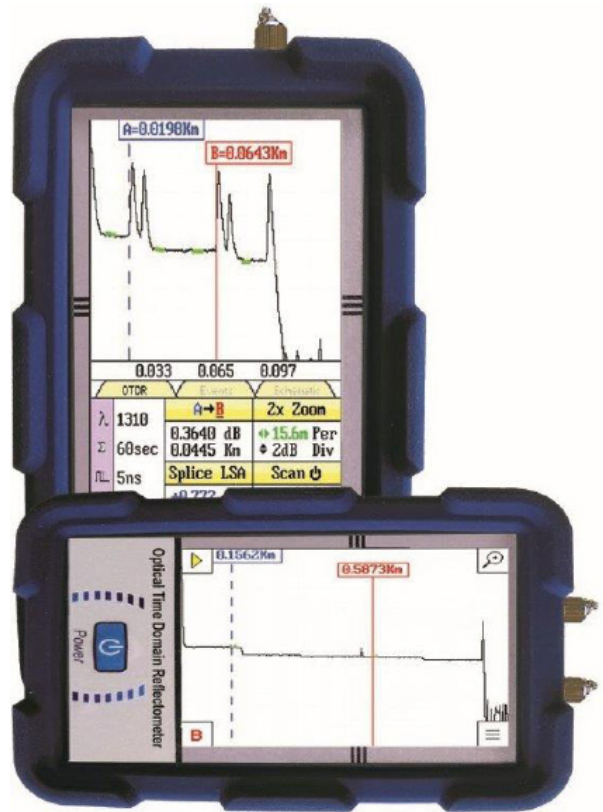


FTE-7100-PON

Features:

- Up to 38 dB Dynamic Range
- 1 Meter Dead Zone
- Touch Screen
- Video Scope With Auto Pass/Fail Option
- VFL & Power Meter Options
- CW / Fiber Identifier Light Source
- Bluetooth Android Tablet Operation
- Fib-R-Map Event Analyzer
- Full Auto, Construction and Expert Modes
- Instant On, Immediate Scan
- Live Fiber Detection



PON Optical Time Domain Reflectometer

Advanced features in a small package: The PON MICROTDR is the smallest full-featured color touchscreen PON OTDR on the market. The FTE7100-PON has a 38/37/38db dynamic range. It is also available in an economy version at 33/34/34dB dynamic range. This unit includes all the features expected in today's hand held OTDR and more: bright color touch screen, project management, file storage, Fib-R-Map schematic event analysis, pass/fail threshold settings and onboard context-sensitive express help system.

Easy-to-use: The PON MICROTDR is a user-friendly touch screen unit with a bright color display and automatic screen rotation for portrait or landscape trace viewing. It operates in simple fault finder mode, construction or expert modes.

Powerful and customizable: When equipped with the optional video scope, it is a powerful video inspection system with IEC61300-3-35 auto pass/fail capabilities. Additional optional features include a broadband power meter and visual fault locator. The PON MICROTDR can support up two of these optional features.

Bluetooth compatible with Real-Time functionality: The OTDR is operated/charged with a standard 5V USB charging system, or use the USB cable to connect the OTDR to a laptop for full real-time operation with Windows™ operating system. It can also be operated via Bluetooth with a compatible Android phone or tablet.



Terahertz Technologies Inc.
169 Clear Rd., Oriskany NY 13424 Toll Free: 888-U.S.- OTDRS
Phone: 315-736-3642 Fax: 315-736-4078
sales@teratec.us www.teratec.us



Made In the USA

FTE-7100-PON OTDR

Specifications

Wavelength	1310, 1550 and 1625 $\pm$ 20nm
Dynamic Range	37/38/37 dB (Economy Version 33/34/34 dB)
Pulse Width	5 - 20,000 ns
Units of Measurement	km, ft/kf, mi
Event Dead zone	1m
Attenuation Dead Zone	4m
Resolution	.125 - 32m
Distance Uncertainty	$\pm(0.75m + 0.005\% \times \text{distance} + \text{sampling resolution})$
Full Scale Distance Range	0.25-256km SM
Typical Real-time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	$\pm .05$ dB/dB
Memory Capacity	~40,000
Memory Type	Internal
Power Supply / Charger	Universal
Battery	Li-ion 5hr typ.
Storage Temperature	-20 to 60 C
Operating Temperature Range	0 to 40 C
Dimensions (w/out rubber boot)	6.25" L x 4.125" W x 1.875" H (159mm L x 105mm W x 48mm H)
Weight	1.5 lbs (0.7 kg)
Communications ports	USB and Bluetooth
Connector Styles	Choice of FC, SC (APC Available)
Accessories Provided	USB Power Adapter, USB Cable, Choice of FC or SC Adapters, Android Application, Windows Compatible Software, Rubber Boot and Manual and 2 Stylus.

TTI reserves the right to change specifications without notice

Light Source

Fiber Type	Singlemode
Wavelengths	1310, 1550 and 1625 nm $\pm$ 20nm
Output Power	0 dBm
Laser Safety Classification	Class I Safety Per FDA/CDRH and IEC-825-1 Regulation
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz

TTI reserves the right to change specifications without notice

VFL (Option)

Emitter Type	Laser
Wavelength	650nm $\pm$ 5nm
Laser Safety Class	Class II FDA21 CFR1040.10 & 1040.11 IEC 825-1: 1993
Connector Type	2.5mm Universal
Output Power	1mW Max.

TTI reserves the right to change specifications without notice

Laser Safety

Class II FDA21 CFR1040.10 & 1040.11
IEC 825-1: 1993



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FTE-7100-PON OTDR

Power Meter (Option)

Detector Type	InGaAs
Connector Type	ST, FC, SC, 1.25mm and 2.5mm Interchangeable
Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Calibrated Wavelengths	850,1300,1310,1490,1550 and 1625nm
Power Measurement Uncertainty	± 0.18 dB under reference conditions, ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Units of Measurement	dBm, dB
Resolution	.01 dB

TTI reserves the right to change specifications without notice

Ordering Information

FTE-7100-PON	1310/1550nm and 1625nm Active Port 37/38/37dB PON Touch Screen MICROTDR W/Video Scope Capability (Probe Sold Separately)
FTE-7100-PON-E	Economy 1310/1550nm and 1625nm Active Port 33/34/34dB PON Touch Screen MICROTDR W/Video Scope Capability (Probe Sold Separately)

Add -A to the part number for APC adapters

Configurable Options (PON OTDR will support two options)

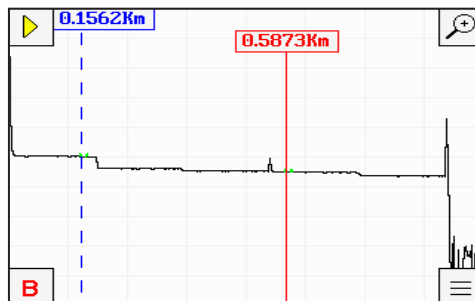
FTE-7100-VP	Video Scope with VIS-300 Video Probe Option
FTE-7100-PM	Power Meter Option
FTE-7100-VFL	Visible Fault Locator Option

Additional Features

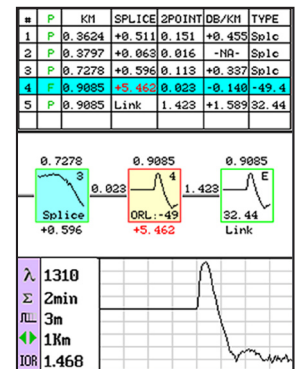
- Onboard Memory of ~40,000 traces
- CW / Fiber Identifier Light Source
- CertSoft Report Software
- Real Time System ORL

Range	1	4	16	64	256
Pulse W.	10	30	100	300	1k
Avg. (s)	30	60	120		
Wave L.	850	1300	1310	1550	
D.Unit	Km	kf	Mi		
P.W.Unit	Meters	Nanosec's			
Event Sense	Low	Medium	High		
IOR	1.468	ORL Thresh	60.0		
Loss Thresh	0.25	Link Thresh	12.5		
Date	June 2013				
Time	11:47				
Return					

Parameter Settings Screen



Large Trace View



Trace Analysis Screen



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