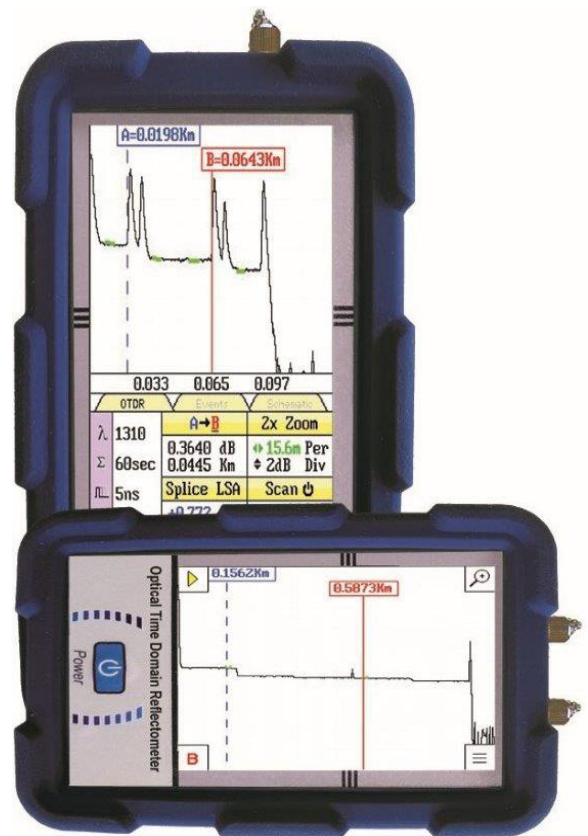


# FTE-7100

## Features:

- 36 dB Dynamic Range W/1 Meter Dead Zone
- Touch Screen
- Video Scope With Auto Pass/Fail Option
- VFL & Power Meter Options
- Bluetooth Android Tablet Operation
- Fib-R-Map Event Analyzer
- Macro Bend and Bidirectional Analysis
- Full Auto, Construction and Expert Modes
- SM, MM, Triple, Quad & CWDM Units Available
- Instant On, Immediate Scan
- Live Fiber Detection



## Optical Time Domain Reflectometer

**Advanced features in a small package:** The MICROTDR series is the smallest full-featured color touchscreen OTDR on the market. 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 to keep the learning curve as short as possible.

**Easy-to-use:** The 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 MICROTDR is available in SM or MM dual wavelength configuration or as a SM/MM or CWDM Quad wavelength versions.

**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 on Windows™. 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 OTDR

<b>Specifications</b>	
Wavelength	850, 1300, 1310, 1550 and 1625 ±20nm (CWDM Wavelengths 1471-1611nm ±3nm)
Dynamic Range	26/27dB MM, 33/33dB SM, (1310/1550/1625 PON 37/38/385dB) (CWDM wavelengths 35dB)
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	±(0.75m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	0.25-64km MM, 0.25-260km SM
Typical Real-time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	± .05 dB/dB
Memory Capacity	~40,000
Memory Type	Internal
Power Supply / Charger	Universal
Battery	Li-ion 6hr typ.
Storage Temperature	-20 to 60 C
Operating Temperature Range	-10 to 50 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, ST, SC
Accessories Provided	Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Choice of FC/ST and SC Adapters, Android Application, Windows Compatible Software, Rubber Boot and Manual on CD

TTI reserves the right to change specifications without notice

<b>Light Source</b>	
Fiber Type	Singlemode, Multimode
Wavelengths	850, 1300, 1310, 1490, 1550 and 1625 nm ±20nm
Output Power	0 dBm (-3dBm @ 1625nm)
Laser Safety Classification	Class I Safety Per FDA/CDRH and IEC-825-1 Regulation
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz

<b>VFL (Option)</b>	
Emitter Type	Laser
Wavelength	650nm ± 5nm
Laser Safety Class	Class IIFDA21 CFR1040.10 & 1040.11 IEC 825-1: 1993
Connector Type	2.5mm Universal
Output Power	1mW Max.

## Laser Safety

Class IIFDA21 CFR1040.10 & 1040.11  
IEC 825-1: 1993



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# FTE-7100 OTDR

Power Meter (Option)	
Detector Type	InGaAs
Connector Type	ST, FL, 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

Ordering Information	
FTE-7100-1315	1310/1550nm Dual Wavelength MICROTDR
FTE-7100-8513	850/1300nm Dual Wavelength MICROTDR
FTE-7100-QUAD	850/1300/1310/1550nm QUAD Wave MICROTDR
FTE-7100-PON	1310/1550nm with 1625nm Active PON MICROTDR
FTE-7100-CWDM-CL	1551/1571/1591/1611nm QUAD Wavelength MICROTDR
FTE-7100-CWDM-S	1471/1491/1511/1531nm QUAD Wavelength MICROTDR

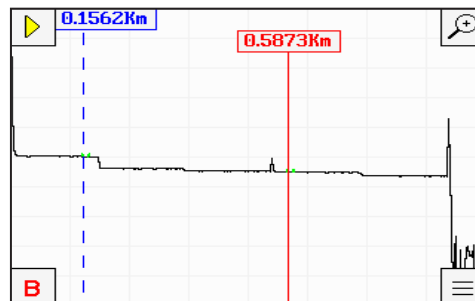
Configurable Options	
FTE-7100-VP	Video Scope with VIS-300 Video Probe Option
FTE-7100-PM	Power Meter Option
FTE-7100-VFL	Visible Fault Locator Option

## 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		
PW.Unit	Meters	Nanosec's			
Event Sense	Low	Medium	High		
IOR	1	6	8	0.0	0.0
Loss Thresh	0.2	5	1	2.5	
Date	June 2013				
Time	11:47				
	Return				

Parameter Settings Screen



Large Trace View

#	P	KM	SPLICE	ZPOINT	DB/KM	TYPE
1	P	0.3624	+0.511	0.151	+0.455	Splice
2	P	0.3797	+0.063	0.016	-NR-	Splice
3	P	0.7278	+0.596	0.113	+0.337	Splice
4	F	0.9085	+5.462	0.023	-0.140	-49.4
5	P	0.9885	Link	1.423	+1.589	32.44

The figure shows a trace analysis screen with a graph. The graph has three main markers: a green marker at 0.7278 labeled 'Splice +0.596', a red marker at 0.9085 labeled 'ORL: -49 +5.462', and a green marker at 0.9885 labeled 'Link 32.44'. Below the graph, there are settings for wavelength (λ: 1310), Zmin, Zmax, and IOR (1.468).

Trace Analysis Screen



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