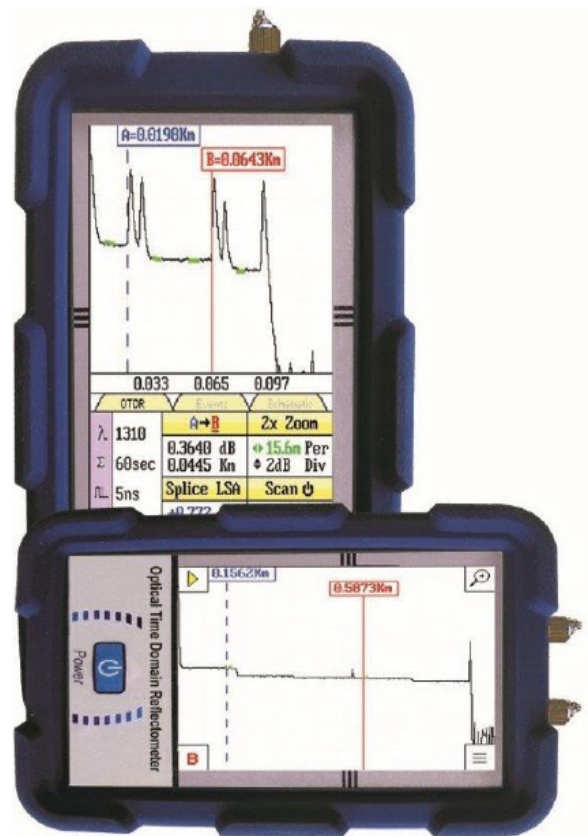# FTE-7100

Features:

- **Up to 38 dB Dynamic Range**
- **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 a variety of styles, including standard SM, MM and QUAD configurations as well as CWDM and PON 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.

FTE-7100 OTDR

Specifications

Wavelength	850, 1300, 1310,1550nm
Dynamic Range	26/27dB MM, 34/32dB, 36-34 dB or 37/38 dB SM
Pulse Width	5 - 20,000 ns
Units of Measurement	km, ft, kf, mi
Event Dead zone	1m
Attenuation Dead Zone	5m
Resolution	.125 - 32m
Distance Uncertainty	±(0.75m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	0.25-64km MM , 0.25-256 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	100-240V USB Charger 5V, 2.1A Output
Battery	Li-Poly 8hr 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	USB Charge Adapter, 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

Light Source

Fiber Type	Singlemode, and/or Multimode As per Laser Configuration
Wavelengths	850,1300,1310,1490,1550 and 1625 nm ±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

VFL (Option)

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

Made In the USA

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

To Order: FTE-7100-xxxx-xx-xxx

Wavelength

8513 - 850/1300nm

1315 - 1310/1550nm

QUAD - 850/1300/1310/1550nm

1310/1550nm Dynamic Range

34 - 34/32dB

36 - 36/34dB

38 - 37/38dB

MM (850/1300nm is 26/27dB Dynamic Range)

Options*

1 - With Video Inspection Probe

X - No Video Inspection Probe

1 - Visible Light Source

X - No VFL

1 = Power Meter

X-No Power Meter

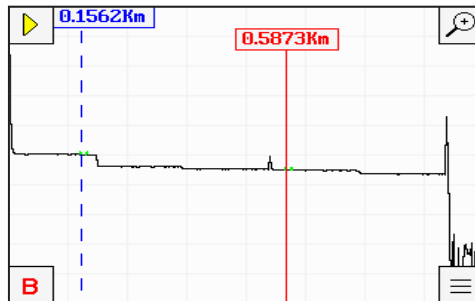Dual Wavelength products can support up to 3 of the options above and Quad Wavelength products support up to 2 of the options above.

Additional Features

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

Parameter Settings Screen

Large Trace View

Trace Analysis Screen

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