

# CWDM Optical Time Domain Reflectometer

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## Features:

- 36 dB Dynamic Range
- 10 Hour Battery Life w/2 Hour Quick recharge
- Auto-Grade Fault Finder
- Express Help System
- Bluetooth Operation with Android Devices
- Video Scope With Pass/Fail Grading Map
- Fib-R-Map Event Analyzer
- Full Auto, Construction and Expert Modes
- Instant On, Immediate Scan
- Live Fiber Detection
- Onboard Memory of ~4000 traces
- CW / Fiber Identifier Light Source
- CertSoft Report Software with .sor Capability
- Real Time System ORL

The FTE7000A Optical Time Domain Reflectometer is designed for your CWDM networks with 4 CWDM lasers per unit. These units have 36dB dynamic range to meet your CWDM testing requirements. The FTE7000A series is a simple to operate touch screen unit with intuitive operation. As with our other FTE7000A units, it has an IEC61300-3-35 method "B" video inspection system for use with the optional VIS300 video probe.

The FTE7000A-CWDM units have our rechargeable lithium Ion battery pack that supports up to 10 hours of operation with a quick 2 hour recharge cycle. 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 short and simple.

This OTDR may also be operated with our Android app which is a real time application for your compatible Android tablet or phone.

The FTE7000A weighs less than 2.0 pounds and with a hardened water resistant enclosure in a sturdy rubber boot, this OTDR is great for all working conditions. You can print professional reports that include; Fib-R-Map schematic analysis and loss tests set measurements with the included "CertSoft" certification software suite.



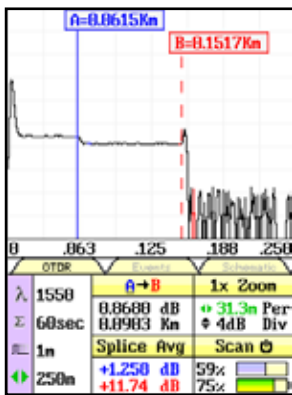
Made In the USA

Terahertz Technologies Inc.  
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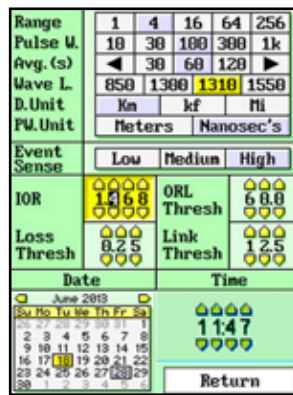
# Specifications

|                                 |  |
|---------------------------------|--|
| Wavelength                      | 1471/1491/1511/1531 or 1551/1571/1591/1611nm +/-3nm  |
| Dynamic Range                   | 36dB   |
| 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       | 0.25-240km SM  |
| Typical Real-time Refresh Rate  | 2 Hz   |
| Group Index of Refraction (GIR) | 1.024 - 2.048  |
| Linearity                       | ± .05 dB/dB  |
| Memory Capacity                 | ~4000  |
| Memory Type                     | Internal   |
| Power Supply / Charger          | Universal  |
| Battery Type/Operation          | Li-ion 10 hr typ.  |
| Storage Temperature             | -20 to 60 C  |
| Operating Temperature Range     | 0 to 40 C  |
| Dimensions (w/rubber boot )     | 8.75" L x 4.25" W x 2.125" H<br>(222mm L x 108mm W x 554m H)   |
| Weight                          | 1.7 lbs (0.8 kg)   |
| Communications ports            | USB and Bluetooth  |
| OTDR and PM Connector Style     | Interchangeable  |
| Accessories Provided            | Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Interchangeable adapters -OTDR FC, ST and SC, Power Meter 1.25 and 2.5mm univ, FC,ST and SC, Windows Compatible Software, Rubber Boot and Manual on CD |

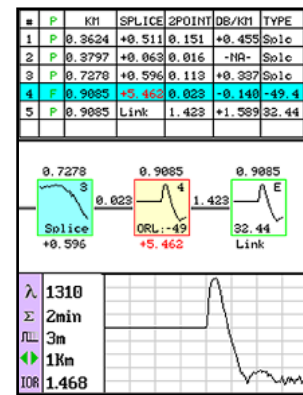
TTI reserves the right to change specifications without notice.



Large - Easy to Read Trace/Events, Icons and Measurements



Intuitive Expert Parameter Screen



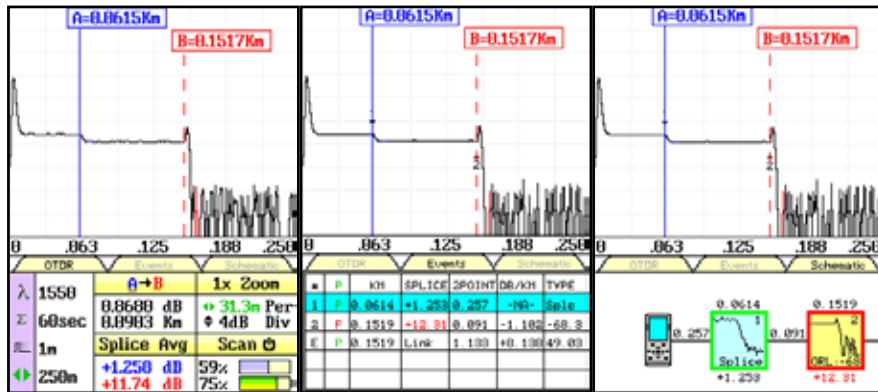
Fib-R-Map Schematic Event Analysis

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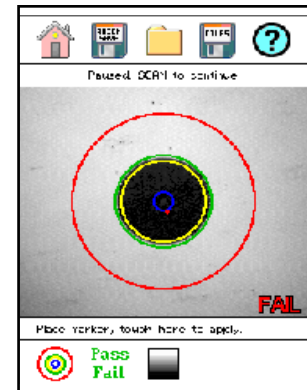


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Simple Tab Selection to Change Between Views of the Trace event overlay with Parameters and Measurements, Event Table or Schematic View.



IEC61300-3-35 Method "B" Pass Fail Video Inspection System Included

## Power Meter Specifications

|                               |   |
|-------------------------------|---|
| Detector Type                 | InGaAs  |
| Connector Type                | Interchangeable - 1.25mm and 2.5mm univ, FC, ST, and SC included  |
| Dynamic Range                 | +5 to -77dB (CATV - +25 to -57dB)   |
| Calibrated Wavelengths        | 850, 1300, 1310, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611, 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  |

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## Light Source Specifications

|                             |  |
|-----------------------------|--|
| Fiber Type                  | Single mode  |
| Wavelengths                 | As ordered with OTDR                                 |
| 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                         |

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## Ordering Information

|              |  |
|--------------|--|
| FTE-7000A-S  | 1471/1491/1511/1531nm SM 36dB Dual Wavelength OTDR with Video Scope and LTS (Probe Sold Separately)    |
| FTE-7000A-CL | 1551/1571/1591/1611nm with 1625 Active, 39dB PON OTDR with Video Scope and LTS (Probe Sold Separately) |
| VIS300       | Video Probe  |

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