

# CWDM Optical Time Domain Reflectometer

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## Features:

- Instant On
- 33 dB Dynamic Range
- Short 1 meter Dead Zone
- Fiber Inspection Video Probe Port
- Visible Fault Locator
- Onboard Memory of ~500 traces
- Broadband Power Meter
- CW Light Source
- Event Table with Pass/Fail Feature
- Light Weight Rugged Enclosure
- CertSoft Report Software
- Full Auto, Construction and Expert Modes

The FTE-7500A CWDM Optical Time Domain Reflectometer performs a wide variety of functions as well as being a fast, simple

to use OTDR. Its instant on feature, ease of use, rugged housing and affordable price make this the best day to day unit on the market. This unit includes a integrated Video Scope, Visual Fault Locator, Broadband Power Meter and CW Light Source. It is available in standard models with 1471/1491/1511/1531nm and 1551/1571/1591/1611nm. Other combination of CWDM wavelengths may be order based on individual needs.

The FTE-7500A-CWDM has a 33dB dynamic range and a 1 meter dead zone. These specifications, and a full set or operational modes, such as; one button fault finder, construction, real time and full manual mode, make it perfect for testing and troubleshooting requirements, in LAN networks to Metro networks.

The FTE-7500A-CWDM OTDR also includes a Visual Fault Locator, Broadband Power Meter, Stable Light Source and a Video Inspection Scope.

This unit includes all the features expected in today's hand held OTDR; bright 4" color display, immediate start up, USB flash, internal storage, event table with pass/fail threshold setting and onboard context sensitive help which keeps the learning curve as short as possible.

The FTE-7500A weighs less then 2.0 pounds and with a hardened water resistant enclosure, this OTDR is great for all working conditions. The rubber boot with bail adds protection and provides the ideal angle for viewing the display while operating on a work bench.

Print professional reports that can include; loss tests set measurements and connector end face images with the included "CertSoft" certification software suite.



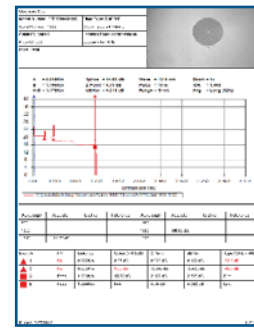
Made In the USA

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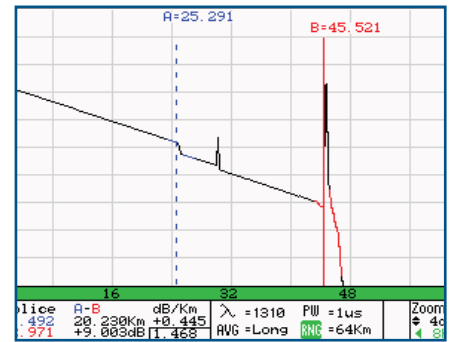
# FTE750A-OTDR Specifications:

|                                 |  |
|---------------------------------|--|
| Standard Wavelengths            | 1470/1491/1511/1531 or<br>1551/1571/1591/1611nm +/- 3nm  |
| Dynamic Range                   | 33dB   |
| Pulse Width                     | 5 - 20,000 ns  |
| Units of Measurement            | km, kf, mi   |
| Event Dead zone                 | 1m   |
| Attenuation Dead Zone           | 4m   |
| Data Points                     | up to 120,000  |
| Resolution                      | .125 - 32m   |
| Distance Uncertainty            | $\pm(0.75m + 0.005\% \times \text{distance} + \text{sampling resolution})$   |
| Full Scale Distance Range       | 1-64km MM , 1-240km SM   |
| Typical Real-time Refresh Rate  | 2 Hz   |
| Group Index of Refraction (GIR) | 1.024 - 2.048  |
| Linearity                       | $\pm .05 \text{ dB/dB}$  |
| Memory Capacity                 | ~500   |
| Memory Type                     | Internal and Flash Drive   |
| Power Supply / Charger          | Universal  |
| Battery                         | 8hr  |
| Storage Temperature             | -20 to 60 C  |
| Operating Temperature Range     | -10 to 50 C  |
| Dimensions (w/out rubber boot ) | 7.75" L x 4.5" W x 2.25" H<br>(197mm L x 114mm W x 57mm H)   |
| Weight                          | 2 lbs  |
| Communications ports            | USB and USB Flash Drive Ports  |
| Connector Styles                | FC, ST, SC Interchangeable   |
| Accessories Provided            | Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Interchangeable FC/ST and SC Adapters, Windows/Telcordia SR4731 Software, Rubber Boot and Manual on CD |

TTI reserves the right to change specifications without notice.



Use TTI's CertSoft™ Software Suite to Generate OTDR Test Reports that contain Connector Image and Loss Test Set Readings,



Large Trace Display

| # | P/F | KM     | SPLICE | 2POINT | DB/KM  | TYPE  |
|---|-----|--------|--------|--------|--------|-------|
| 1 | X   | 25.278 | +1.491 | +8.613 | +0.345 | Splic |
| 2 | ✓   | 30.719 | +0.535 | +1.689 | +0.334 | -39.4 |
| 3 | X   | 45.521 | +2.971 | +5.174 | +0.359 | -11.5 |
| 4 | ✓   | 45.521 | -NA-   | +17.73 | +0.392 | Link  |

Trace Analysis with Pass Fail Feature



Integrated Video Scope

| Filename     | WL   | Rng  | PW  | Date        |
|--------------|------|------|-----|-------------|
| Admin_HPE~1  | 1310 | 64km | 1us | 09/21 09:13 |
| Admin_HPE~2  | 1550 | 64km | 1us | 09/21 09:13 |
| Admin_HPE~3  | 1310 | 64km | 1us | 09/21 09:14 |
| Admin_HPE~4  | 1550 | 64km | 1us | 09/21 09:14 |
| Admin_HPE~5  | 1310 | 64km | 1us | 09/21 09:15 |
| Admin_HPE~6  | 1550 | 64km | 1us | 09/21 09:16 |
| Admin_HPE~7  | 1310 | 64km | 1us | 09/21 09:16 |
| Admin_HPE~8  | 1550 | 64km | 1us | 09/21 09:17 |
| Admin_HPE~9  | 1310 | 64km | 1us | 09/21 09:17 |
| Admin_HPE~10 | 1550 | 64km | 1us | 09/21 09:18 |

Cable #4 SM 24 fiber LT

User Friendly File Management



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## Visible Light Source

|                |   |
|----------------|---|
| Emitter Type   | Laser Photodiode 1100 - 1700nm InGaAs -70-+9dBm with interchangeable FC Adapter |
| Wavelength     | 650nm ±5nm  |
| Connector Type | 2.5mm Universal   |
| Output Power   | 1mW Max.  |

## Laser Safety

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



## Power Meter Specifications

|                               |   |
|-------------------------------|---|
| Detector Type                 | InGaAs  |
| Connector Type                | 2.5mm Interchangeable   |
| Dynamic Range                 | +5 to -77dB (CATV - +25 to -57dB)   |
| Calibrated Wavelengths        | 850,1300,1310,1471,1491,1511,11531,1551,1571,1591,1611,1625nm   |
| Units of Measurement          | dBm, dB   |
| Resolution                    | .01 dB  |
| 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 |
| Auto Test Range               | 0 to -40dB  |

## Light Source Specifications

|                             |  |
|-----------------------------|--|
| Fiber Type                  | Single mode, Multimode                               |
| Standard Wavelengths        | 1470/1491/1511/1531and1551/1571/1591/1611nm +/- 3nm  |
| 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                         |

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## Ordering Information

|                |   |
|----------------|---|
| FTE-7500A-LMNO | 1471/1491/1511/1531nm CWDM OTDR W/VFL, LTS, Video Scope and Probe |
| FTE-7500A-PQRS | 1551/1571/1591/1611nm CWDM OTDR W/VFL, LTS, Video Scope and Probe |
| FTE-SCASE-LG   | Soft Case for FTE-7500, FTE-6000 and FTE-8000 Series              |
| CI1100         | Video Probe for FTE7500 and FTE-8000 Series                       |

For CATV power meter specifications, add "-C" to the end of the part number  
Please call for other wavelength configurations

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