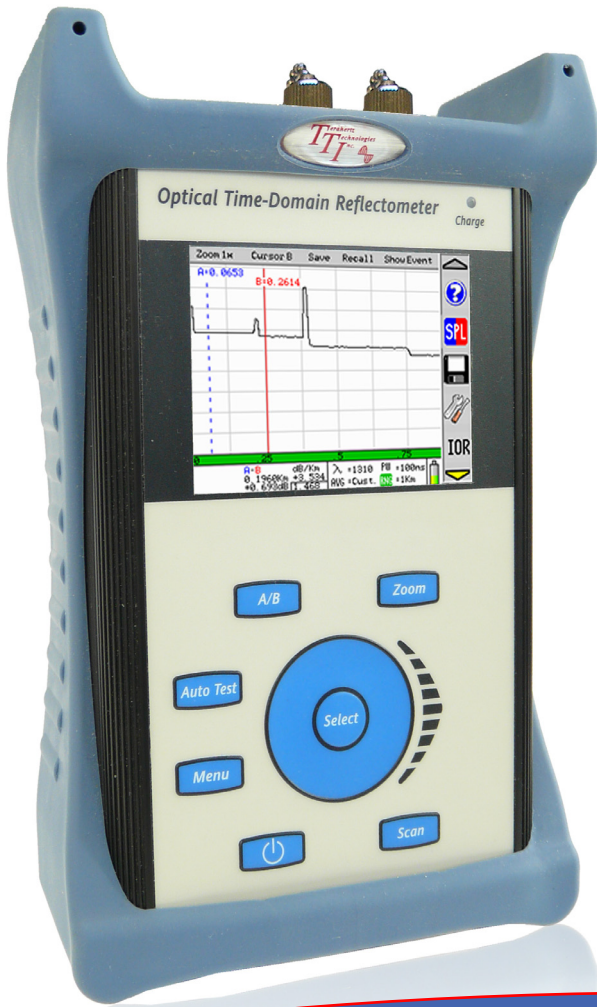


# FTE-7500A-CWDM Optical Time Domain Reflectometer



## Features:

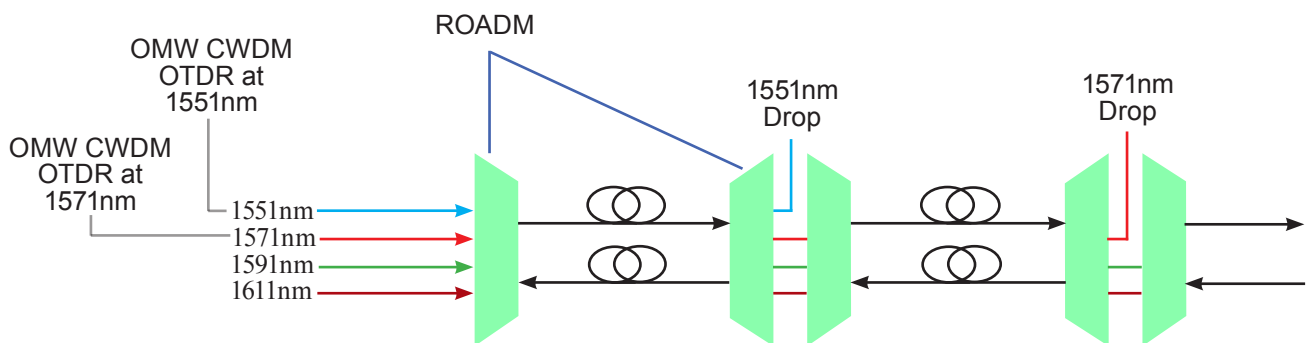
- 12 CWDM Wavelengths Available in One Unit.
- 35 dB Dynamic Range
- Fib-R-View Auto Pass/Fail Fiber Inspector
- Visible Fault Locator
- Broadband Power Meter
- CW Light Source
- Fib-R-Map Comprehensive Event Analysis
- Report Generating Software Included

## Applications:

- Fiber Characterization
- Wavelength Provisioning
- Test through OADMs
- In service CWDM Network Trouble shooting
- Suitable for Short and Medium Range Networks
- Test through MUX/DMUX Channels

Maintain and Troubleshoot CWDM Networks Easily and Cost Effectively

Regular SM OTDR wavelengths of 1310nm or 1550nm will be blocked at the optical filters



Made In the USA

Terahertz Technologies Inc.  
169 Clear Rd., Oriskany NY 13424  
Toll Free 888-U.S.-OTDRS (876-8377)  
Phone: 315-736-3642 Fax: 315-736-4078  
E-mail: sales@teratec.us  
Web: www.teratec.us

# **FTE7500A-CWDM** *Optical Time Domain Reflectometer*

The FTE7500A-CWDM is a CWDM OTDR with up to twelve wavelengths from the ITU-T G.694.2 available in a single hand-held piece of test equipment. This is the only non-tunable OTDR to offer this larger number of wavelengths in a single unit. Use the FTE7500A-CWDM for commissioning and troubleshooting CWDM Networks.

## **12 CWDM Wavelengths in One Hand Held OTDR**

These OTDRs offer features and options that include auto pass/fail connector end face testing with video scope and probe, broadband power meter, CW source and VFL.

### **OTDR -**

Test up to 12 Wavelengths with one handheld OTDR.  
Pass/Fail Summary with Fib-R-Map Trace Analysis  
Test through MUX - DEMUX units at up to 18 channels on the ITU grid

**Broadband Power Meter -** Calibrated at all the CWDM wavelengths

**CW Laser Source -** Loss test analysis with Broadband Power Meter

**Cert-Soft Software -** Complete professional network documentation

**Video Scope -** Fib-R-View Auto pass/fail analysis  
Automatic image centering

**VFL -** Check for near end connector integrity



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Rev. B 6/2017

# FTE7-7500A-CWDM *Optical Time Domain Reflectometer*

## OTDR Specifications

Standard Wavelengths	As Configured with Wavelengths 1271-1611nm +/- 3nm
Dynamic Range	35 dB
Pulse Width	5 - 20,000 ns
Units of Measurement	km, 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	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 (Internal)	~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 (197mm L x 114mm W x 57mm H)
Weight	2 lbs
Communications ports	USB-PC and USB Flash Drive Ports
Connector Styles	FC, SC Interchangeable
Accessories Provided	Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Interchangeable FC and SC Adapters, Windows/Telcordia SR4731 Software, Rubber Boot and Manual on CD

TTI reserves the right to change specifications without notice.

## Test Through OADMs

*OTDRs may be configured with up to 12  
CWDM wavelengths included in the  
ITU -T G.694.2 Standard*



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# FTE7500A-CWDM *Optical Time Domain Reflectometer*

## Visible Light Source

Emitter Type	Laser Photodiode
Wavelength	650nm ±5nm
Connector Type	2.5mm Universal
Output Power	1mW Max.

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## Laser Safety

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



## Power Meter Specifications

Detector Type	InGaAs
Connector Type	Interchangeable to include FC, ST, SC, 2.5mm universal and 1.25mm universal
Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Calibrated Wavelengths	CWDM Wavelengths, 1271-1611nm plus 850 and 1300nm
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

TTI reserves the right to change specifications without notice.

## Light Source Specifications

Fiber Type	Single mode
Standard Wavelengths	All Wavelengths Configured for OTDR Application +/- 3nm
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.

## Ordering Information

FTE-7500A-CWDM-12	12 Wave CWDM OTDR, 1471 - 1611nm + 4 Configured W/VFL, LTS, Video Scope
FTE-7500A-CWDM-10	10 Wave CWDM OTDR, 1431 - 1611nm W/VFL, LTS, Video Scope
FTE-7500A-CWDM-8	8 Wave CWDM OTDR, 1471 - 1611nm W/VFL, LTS, Video Scope
VIS300	Video Probe for FTE Series Fiber Optic Test Equipment (Sold Separately)



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