

FTE7500A-CWDM Optical Time Domain Reflectometer



Features:

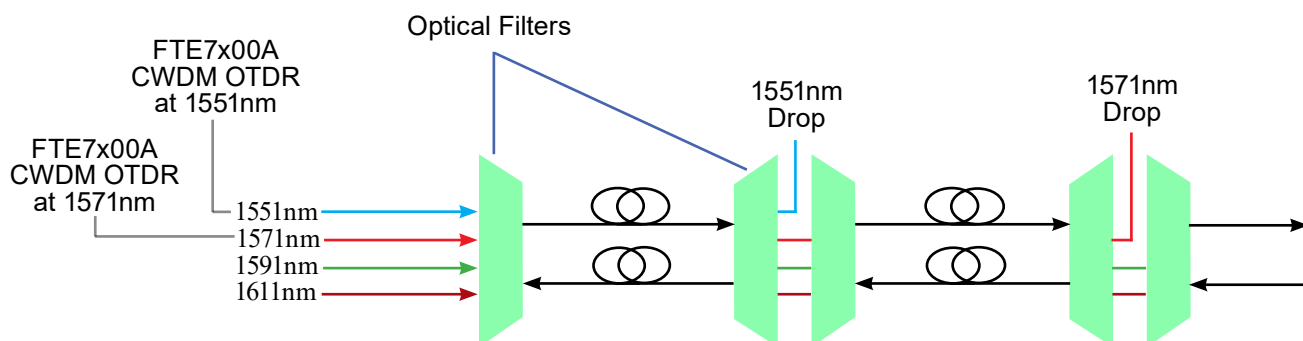
- 12 CWDM Wavelengths Available in One Unit.
- 36 dB Dynamic Range
- Fib-R-View Auto Pass/Fail Fiber Inspector
- Visible Fault Locator
- Broadband Power Meter
- CW Light Source
- Fib-R-Map Comprehensive Event Analysis
- Report Generating Software Included

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
Phone: 315-736-3642 Fax: 315-736-4078
E-mail: sales@teratec.us
Web: www.teratec.us

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 -

One-Touch auto test will test up to 12 CWDM wavelengths
Automatic 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 - Auto pass/fail analysis
Automatic image centering

VFL - Check for near end connector integrity



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FTE7500A-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
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	1-240km 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.

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



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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

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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

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Ordering Information

FTE-7500A-CWDM-12	1471 - 1611nm + 4 additional Wavelengths, CWDM OTDR W/VFL, LTS, Video Scope and Probe
FTE-7500A-CWDM-10	1431 - 1611nm, 10 Wavelength CWDM OTDR W/VFL, LTS, Video Scope and Probe
FTE-7500A-CWDM-OE	1271 - 1411nm, 8 Wavelength CWDM OTDR W/VFL, LTS, Video Scope and Probe
FTE-7500A-CWDM-SCL	1471 - 1611nm, 8 Wavelength CWDM OTDR W/VFL, LTS, Video Scope and Probe
FTE-SCASE-LG	Soft Case for FTE-7500, FTE-6000 and FTE-8000 Series
VIS300	Video Probe for FTE7500 and FTE7000 Series

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