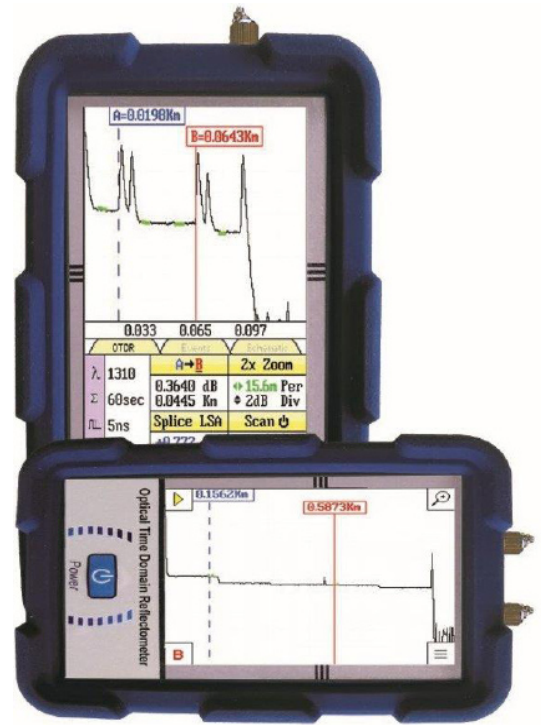


# FTE-7100-CWDM MICROTDR

## Features:

- Up to 10 CWDM Wavelengths
- 1 Meter Dead Zone
- Touch Screen
- Video Scope Option With Auto Pass/Fail
- VFL & Power Meter Options
- Bluetooth Operation Android Devices
- Fib-R-Map Event Analyzer
- Macro Bend and Bidirectional Analysis
- Full Auto and Expert Modes
- Instant On, Immediate Scan
- Live Fiber Detection



## CWDM OTDR

**Advanced features in a small package:** The FTE-7100 CWDM MICROTDR is the smallest OTDR of its type on the market today. This micro package can support up to 10 CWDM wavelengths. This full-featured OTDR with color touchscreen 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 user-friendly and supports portrait or landscape trace viewing. It operates in simple fault finder mode 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. Other optional features include a broadband power meter and visual fault locator. The CWDM MICROTDR is available in 4, 8 or ten wavelengths. Select from our stand wavelength offerings or design the OTDR as needed by ordering custom wavelength configurations.

**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.



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# FTE-7100-CWDM MICROTDR

<b>Specifications</b>	
Wavelength	1271-1611nm +/- 3nm
Dynamic Range	32 - 34 dB (wavelength dependent)
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	$\pm(0.75m + 0.005\% \times \text{distance} + \text{sampling resolution})$
Full Scale Distance Range	0.25-260km 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	~40,000
Memory Type	Internal
Power Supply / Charger	5V, 1.2A USB Wall Charger
Battery	Li-ion 6hr 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)
Communication ports	Bluetooth and USB
Connector Styles	Choice of FC, SC
Accessories Provided	Choice of FC and SC Adapters, 2 Stylus, 5V, 1.2A USB Wall Charger with USB Cable, Android Application, Windows Compatible Software, Rubber Boot and Manual on CD

*TTI reserves the right to change specifications without notice*

<b>Light Source</b>	
Fiber Type	Singlemode
Wavelengths	1271-1611nm +/- 3nm Depending on (OTDR Wavelength Configuration)
Output Power	-1 dBm
Laser Safety Classification	Class I Safety Per FDA/CDRH and IEC-825-1 Regulation
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz

<b>VFL (Option)</b>	
Emitter Type	Laser
Wavelength	650nm $\pm$ 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



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# FTE-7100-CWDM MICROTDR

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

Ordering Information	
FTE-7100-CWDM-10	1471-1611 CWDM MICROTDR - Plus Two Selectable Wavelengths From 1271-1451
FTE-7100-CWDM-8	1471-1611nm CWDM MICROTDR
FTE-7100-CWDM-CL	1551/1571/1591/1611nm CWDM MICROTDR
FTE-7100-CWDM-S	1471/1491/1511/1531nm CWDM MICROTDR

Options	
FTE-7100-VP	VIS-300 Video Probe For Use With Video Inspection System
FTE-7100-PM	Power Meter Option
FTE-7100-VFL	Visible Fault Locator Option

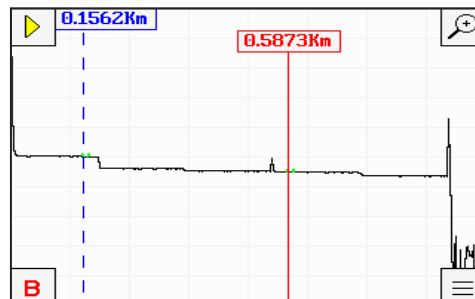
Options must be ordered at at the time of original manufacturing.

## Additional Features

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

Range	1	4	16	64	256
Pulse W.	10	30	100	300	1k
Avg. (s)	◀	30	60	120	▶
Wave L.	850	1300	1310	1550	
D.Unit	Km	kf	Mi		
PW.Unit	Meters	Nanosec's			
Event Sense	Low	Medium	High		
IOR	1	4	6	8	
Loss Thresh	0.2	0.5			
Link Thresh	1	2.5			
Date	June 2013				
Time	11:47				
	Return				

Parameter Settings Screen



Large Trace View

#	P	KM	SPLICE	2POINT	DB/KM	TYPE
1	P	0.3624	+0.511	0.151	+0.455	Splic
2	P	0.3797	+0.063	0.016	-NR-	Splic
3	P	0.7278	+0.596	0.113	+0.337	Splic
4	F	0.9085	+5.462	0.023	-0.140	-49.4
5	P	0.9085	Link	1.423	+1.589	32.44

0.7278	0.9085	0.9085
Splice	ORL: -49	Link
+0.596	+5.462	32.44
	1.423	

λ	1310
Σ	2min
Π	3m
Δ	1Km
IOR	1.468

Trace Analysis Screen



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