

# Viper - Loss Test Set/ ORL Meter

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## Features:

- Optical Loss/ORL Tester
- ORL Measurement Range to -55 dB
- PM with -77 dBm Dynamic Range
- IEC61300-3-35 method "B" Video Scope  
(Probe Sold Separately)
- Auto Test Up To Three Wavelengths
- Automated Loss Measurements
- Auto Wavelength Switching
- Universal PM and LS Adapters
- Storage for 5,000 Test
- Bright Color Display
- Rechargeable NiMH Batteries
- USB Interface
- Free Report Software
- On-Board Help Feature



Probe Sold Separately



The FTE-5000 combines four functions for testing optical networks together in one unit. It brings together a -55dB ORL meter, power meter, laser source and video scope capability with IEC61300-3-35 method "B" Pass/Fail End face Grading Map (probe sold separately).

The FTE-5000 is a full featured ORL Loss Test Set. It has 4" super bright color touch screen display with large easy to read characters. It performs optical return loss measurements to -55db at up to three wavelengths and is an automated loss test set with dual or triple wave Light sources. The power meter uses an InGaAs detector which is calibrated at 850, 1300, 1310, 1490, 1550 and 1625nm, with a dynamic range of -77dBm. These units are available in single, dual, triple or quad wavelength configurations and displays measurements up to three wavelengths at one time. In the Autotest mode, the master unit changes wavelengths at a fixed rate and informs the slave unit of the wavelength currently being measured. Use this method to test up to three wavelengths at a time and store the loss measurements for each of the lasers fired during the test. Up to 5000 tests may be stored and recalled via the unit's USB port. Use TTI's CertSoft PC application software for downloading stored data and organizing the information or use the Android Bluetooth virtual instrument application for remote operation.

The information from OTDR, LTS, ORL and video scope may be combined to offer a comprehensive report for all of your network testing needs.

The FTE-5000 also includes a video scope (probe sold separately). Use the video scope to ensure the integrity and cleanliness of the connectors being tested.

Use the modulation feature to perform fiber identification function. The power meter will identify modulated signals at 270, 1000 and 2000 Hz produced a modulate light source.



Made In the USA

Terahertz Technologies Inc.  
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# FTE-5000 Specifications

Power Meter	
Power Meter Detector Type	InGaAs
Power Meter Dynamic Range	+5 to -77 dB (CATV +25 to -57 dB)
Auto Test Range	0 to -36 dB
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm
Units of Measurement	dBm, dB, mW, $\mu$ W and nW
Resolution	0.01dB
Power Measurement Uncertainty	$\pm$ 0.18 dB under reference conditions, $\pm$ 0.25 dB from 0 to -65 dBm, $\pm$ 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Modulation Modes Detected	CW, 270 Hz, 1000 Hz, 2000 Hz

Light Source	
Laser Output Power	0 dBm, 1mw
Output Stability	$\pm$ .05 dB / 24 hrs @ constant temp., $\pm$ .02 dB/C temperature coefficient
Laser Wavelengths Provided	850, 1300, 1310, 1490, 1550 and 1625nm ( $\pm$ 20 nm)
Transmitted Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz
Laser Safety Classification	Class I safety per FDA/CDRH and IEC-825-1 regulation
Spectral Width	<3nm typ.

Optical Return Loss Meter	
Optical Return Loss Dynamic Range	0-55 dB
ORL Wavelengths	Source Wavelengths
Optical Return Loss Accuracy	$\pm$ .75dB @ -40db reflection
Resolution	0.01 dB

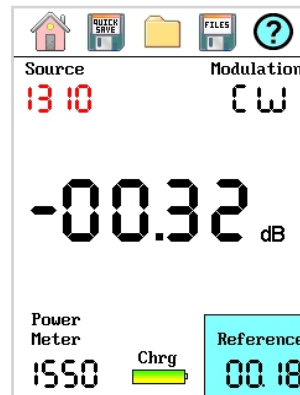
TTI reserves the right to change specifications without notice.

Ordering Information	
FTE-5000-8513	LTS with 850/1300nm Light Source and Video Scope (Probe Sold Separately)
FTE-5000-1315	LTS with 1310/1550nm Light Source and Video Scope (Probe Sold Separately)
FTE-5000-345	LTS with 1310/1490/1550nm Light Source and Video Scope (Probe Sold Separately)
FTE-5000-QUAD	LTS with 850/1300/1310/1550nm Light Source (No Video Scope Capability)

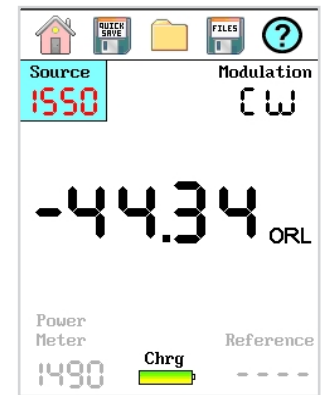
Add a "C" to the end of the Part number for CATV Versions.

General Specifications	
Display	4 in Color TFT
Storage Locations	5000
Battery/Operating Time	4 AA Rechargeable NiMH / 6 hrs
Power Requirements	Wall Mount, Universal 100-240V 47-63 Hz 9 VDC Center Positive with, US, UK, Continental Europe, and Australian Plugs
Operating Temperature Range	-10 to 45 C
Dimensions (w/o rubber boot )	7.62" L x 3.88" W x 1.56" H (194mm L x 99mm W x 40mm H)
Weight	0.52 Kg
Accessories Provided	FC, ST, SC adaptors for both Power Meter and Light Source, rubber boot, battery, power supply/charger, manual and software on CD and USB cable

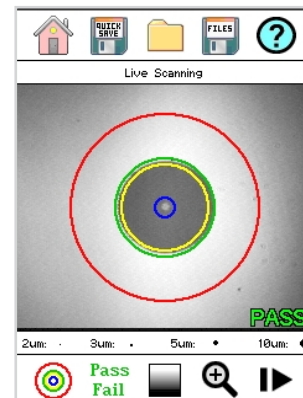
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Easy Operation with Color Touch Screen



Use the ORL Mode for Accurate Optical Return Loss Measurements to -55dB



IEC61300-3-35 Video Inspection system



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