

# Optical Spectrum/Channel Analyzer

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## Features:

- Available for DWDM
- Up To 82 Channels
- 50 or 100 GHz
- Pass/Fail Thresholds and Drift Statistics
- Fast Real Time with <1/2 second Update
- Bar Graph and Table Displays
- Auto Test Zooms in on Active Channels
- Rugged Case w/Impact Resistant Boot
- Solid State Optics-No Moving Parts
- Easy Operation with Help Mode
- Available for C, L Bands
- 4" Color Display
- 8hr Battery Life
- Impact Resistant Boot
- Stores 1000 test
- USB/PC and USB Flash ports



The FTE-8000 Optical Spectrum Analyzer is the most rugged and affordable full featured Mini OSA in the market. It is designed for simple operation and is suited for field or lab use. The Mini OSA is available in up to 82 channels for C or L bands with 50 or 100 GHz channel spacing and displays a full scan twice a second. The FTE-8000 offers high end features such as Power Tilt for channel equalization and Gain Tilt to adjust EDFA gain flatness. With its one button AutoTest feature, a full set of selectable scale limits and thresholds, the FTE-8000 makes zeroing in on channel measurements easy. For flexibility the channel are selected in wavelength or frequency and the information is displayed in graph or table mode on the 4 inch, high brightness color LCD. The unit allows users to set Pass/Fail thresholds and can store up to 1000 tests that can be downloaded via the USB PC or USB flash ports and documented with the included certification software for fast, easy reporting. The onboard Help system guides new users through operation and assists in parameter settings. The FTE-8000 is housed in a rugged metal enclosure with a robust protective boot. TTI also offers a soft carry case with shoulder strap and protective front flap.



Made In the USA

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## FTE-8000 Specifications

	FTE-8000C & FTE-8000L
Wavelength Range	C-Band 1529.60 -1561.05nm (196.00 THz - 192.05THz) L-Band 1574-1608nm (190.5 THz - 186.3 THz)
Channel Spacing	50GHz, 100GHz
Wavelength Accuracy	±0.1nm
Channel Power Range	+10dBm to -50dBm
Absolute Accuracy	±1 dB
Max Composite Power	+28 dBm
PDL	±0.15dB
Optical Rejection Ratio	40dBc (@50GHz)
Measurement Time	< 1/2 Second
Readout Resolution	0.01dB
Return Loss	>40dB

### General

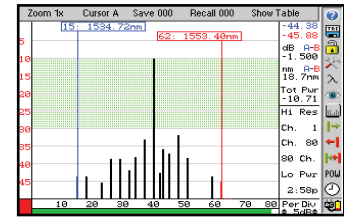
Optical Interface	Universal UPC (FC/SC)
Graphical Display	Bar Graph and Table View
Display	4 in Color TFT
Dimensions	7.75 x 4.5 x 2.25 inches
Weight	2 lbs
Battery	Rechargeable NiMH - 8 hours operating time
Power	100-240 universal US, GB, EU, AU Mains
Environmental	Operation -10°C to 50°C
Accessories Included	Universal power supply with mains for US, UK, CE and AU. Interchangeable FC and SC adapters, Window's™ compatible software, USB cable, manual and rubber boot

*TTI reserves the right to change specifications without notice.*

### Ordering Information

FTE-8000C	C Band Optical Spectrum Analyzer 1529.60-1561.05 nm (196.00 THz - 192.05THz)
FTE-8000L	L Band Optical Spectrum Analyzer 1574-1608nm (190.5 THz - 186.3 THz)
FTE-SCASE-LG	Soft Case With Shoulder Strap

## Graph View



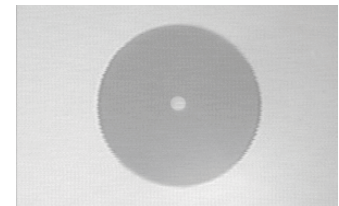
Configured the graph to optimize the view of test information. The user can zoom in on specific channels, mark the display area in which channels meet power criteria and even limit the number of overall channels viewed.

## Table View

Ch	Power	Ch	Power	Ch	Power	Ch	Power
01	-28.88	21	-39.66	41	-26.28	61	-34.84
02	-17.99	22	-29.79	42	-11.99	62	-39.99
03	-11.18	23	-34.97	43	-50.87	63	-17.18
04	-25.15	24	-29.17	44	-21.42	64	-19.15
05	-20.91	25	-33.67	45	-19.67	65	-16.91
06	-36.27	26	-19.59	46	-24.69	66	-33.27
07	-30.18	27	-30.31	47	-11.65	67	-22.18
08	-24.19	28	-41.49	48	-24.99	68	-37.19
09	-22.12	29	-28.82	49	-29.62	69	-16.12
10	-20.06	30	-27.36	50	-19.99	70	-28.06
11	-17.48	31	-17.24	51	-23.98	71	-26.48
12	-17.67	32	-25.52	52	-19.99	72	-30.67
13	-10.84	33	-23.34	53	-24.44	73	-31.84
14	-10.62	34	-31.69	54	-19.99	74	-18.62
15	-32.24	35	-18.51	55	-29.62	75	-24.24
16	-16.41	36	-18.72	56	-29.18	76	-16.41

In the table view, the FTE-8000 displays failed channels in red and when a channel is highlighted, statistical information is displayed including the minimum, maximum and average power levels.

## Video Scope Image



With the optional scope probe attached, a 200X or 400X image of the connector end face may be viewed to ensure cleanliness and quality prior to conducting a test.



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