



## Turbotest 500B Optical Loss/Return Loss Test Sets

The Turbotest 500B Series offers the latest technology in a single fiber bi-directional loss and return loss testing. The T500B is a handheld fiber optic test and measurement instrument. It performs Optical Power, Optical Return Loss, and Optical Loss measurements. Five compact models are available, including the three wavelength (1310/1550/1625) T506B and (1310/1550/1490) T506B-FTTH. An optional dedicated digital talk option is available for full time/full duplex communication between test operators while testing other fibers in a bundle.

The T500B can store up to 1000 records (40 files) in any combination of its four operating modes and if any configuration other than TRIPLE wavelength is selected. If the configuration is TRIPLE wavelength, the T500B can store up to 500 records (40 files). Stored test results can be transferred to a PC for a complete report generation.

Powered by an internal rechargeable Lithium-Ion battery, the T500B comes with protective rubber boots, PC software and manual, AC adapter/charger, RS-232 serial cable, APC/UPC reference cable, adapter cap, mandrel, screwdriver, hex screwdriver, warranty registration card, user's guide, and carry case.

### Features

- Rugged, handheld, designed for field use
- Passive Optical Networks (PON) testing
- Single fiber, bi-directional loss and return loss testing at 1310/1490/1550 nm or 1310/1550/1625 nm
- TRIPLE wavelength test mode
- Talk Set option
- Up to 1000 test records (40 files) storage and download
- Free Windows® compatible software to view, print, and archive test records
- Lithium-Ion or AC adapter
- Cost-effective, easy to use

### Ordering Information

MODEL	INCLUDES
All T500B models	(1) T500B, protective rubber boot, APC/UPC test jumper, adapter cap, serial cable, hex driver, screwdriver, mandrel, AC adapter, PC software, user's guide, and carry case.

When ordering, specify connector type after the model number, (e.g. T504B-Y-SC is a 1310/1550/ Turbo with 1550 nm Talk Set Option and a SC connector).

### Specifications

MODEL	T503B	T504B	T505B	T506B	T506B-FTTH
Calibrated wavelengths (nm)	1310, 1550	1310, 1550	1550, 1625	1310, 1550, 1625	1310, 1550, 1490
Output power (dBm)	-5	-5	-5	-5	-5
Emitter type	Laser	Laser	Laser	Laser	Laser
Safety class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03				
Detector type	InGaAs	InGaAs	InGaAs	InGaAs	InGaAs
Insertion loss measurement range (dB)	45	45	45	45	45
Measurement range (dBm)	+6 to -70	+26 to -50	+26 to -50	+26 to -50	+26 to -50
Measurement units	dB, dBm, µW				
ORL dynamic range (dB)	65				
Available connector types	ASC or AFC				
Power	Lithium-Ion or AC Adapter				
Li-Ion battery pack charging temp.	-10 to +45°C				

*Li-Ion battery pack charging time will increase by 25% at a temperature below -5°C.*

*Do not charge the Li-Ion battery pack at a temperature above +45°C.*

*After the model number:*

*Add -T for 40 dB 1310 nm Talk Set option.*

*Add -Y for 40 dB 1550 nm Talk Set option.*

*Example: T506B-Y is 1310/1550/1625 Turbo with 1550nm Talk Set option.*

*T500B instruments are sold individually but normally used in pairs*



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