

OFT-850

SMPTE Hybrid Cable Test Set

Description:

The OFT-850 set consists of SMPTE SOURCE and SMPTE TESTER unit. The hybrid cable tester is designed for testing of loss in optical fibers and checking of continuity of copper pairs in hybrid cables. It combines optical light source on one side, optical power meter on other side and copper wires checker. It is ideal for testing large spaces of LEMO SMPTE Hybrid System for Broadcast Infrastructure Networks.

The ruggedized aluminium case makes the unit ideal for field operation. The memory capacity allows storage and uploading of more than 1000 measurements including cable number, result of metallic wires check and optical power value or insertion loss. The tester supports memory download and test report generating. The Lithium rechargeable battery ensures long term working with minimal operation costs.



SMPTE source

SMPTE tester

OFT-850 set

Features:

- Hybrid cables – fiber optic testing and copper pairs checking
- Ruggedized aluminium case
- MM or SM applications
- Simultaneous testing of 2 fibers
- Manual operation allows individual fiber or wire check
- Auto operation mode with optical loss pass/fail indication and „ALL OK, SHORT, PINOUT message for metallic wires check
- Able to detect incorrect fiber and wire connection, disconnection and short circuit connection
- Internal memory
- Displayed units: dBm, dB
- High dynamic range
- Built-in charger, battery status indicator
- Easy to use with menu navigation

Specifications:

Optical Light Source:		
Output power		Note:
850 nm, 1300 nm	-26 dBm (62.5/125 µm fiber)	typ. value
1310, 1490, 1550, 1625 nm	-16 dBm	
Stability (1 hour, delta/2):		tested after 20 min warm up temperature 23 ± 1°
850 nm, 1300 nm	± 0.03 dB	
1310, 1490, 1550, 1625 nm	± 0.05 dB	
Optical Power Meter:		
Photodetector	1 mm InGaAs	
Working wavelengths	MM: 850, 1300 nm SM: 1310, 1490, 1550, 1625 nm	can be customized
Uncertainty	± 12%	1310, 1550 nm @ -20 dBm
Resolution	0.01	
Dynamic range	-60 dBm to +10 dBm -53 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm

Electrical wires checking:
Electrical wires continuity
Short circuit
Isolation
Electrical contacts –pins interconnection

General specifications:		
Dimensions	145 x 145 x 56 mm	without connectors
Weight	400 g	with battery
Temperature operating	-10 to +50 °C	
storage	-40 to +70 °C	
Humidity (non condensing)	0 to 95%	
IP rating	IP 54	
Battery working time	> 20 hrs	between battery charging

Ordering Code:

OFT-850 - XX - XXXXX - XXX

M5 (MM)	MM 50/125 µm	Source wavelength as below
M6	MM 62.5/125 µm	
SM	Single mode	

3K93C	Connector type SMPTE compatible HDTV connection system 3K.93C series
other	on request

light source code	Description ¹	application
850	850 nm	MM fiber testing
30	1300 nm	
31	1310 nm	SM fiber testing
55	1550 nm	
62	1625 nm	

Note: 1) other wavelengths on demand

Standard accessories:

- Power charging adaptor
- Carrying case
- USB Cable

Options:

- Reference patchcord

Application:

- Broadcast Infrastructure networks measurements
- SMPTE compatible HDTV system

