

# OFT-920 Ruggedized Optical Test Set

**NATO supplier code: 1583G**

## Description:

The OFT-920 ruggedized optical test set is designed for testing of optical networks terminated with connectors operating in harsh environment. It combines both light source and optical power meter in one common box. The test set is designed to meet the tactical military, and broadcast industry demand. The ruggedized aluminium case makes the unit ideal for field operation.

The memory capacity allows storage and uploading of up to 2000 measurements including memory position or fiber number, wavelength, absolute value or relative value and insertion loss. The tester supports memory download and test report generating. The rechargeable battery ensures long term working with minimal operation costs.



OFT-920-SM-HMA4-LD31

## Features:

- Expanded Beam and ferrule technology harsh environmental connectors
- Ruggedized aluminium case
- Multimode (MM) and/or singlemode (SM) applications
- Simultaneous testing of all 2/4 fibers
- Internal memory
- Displayed units: dBm, dB
- High dynamic range
- Up to 4 light sources combinations
- Built-in charger, battery status indicator
- Easy to use with menu navigation

## Standard accessories:

- Power charging adaptor
- Soft carrying case
- USB Cable
- Cleaning swabs

## Options:

- Reference patchcord

## Specifications

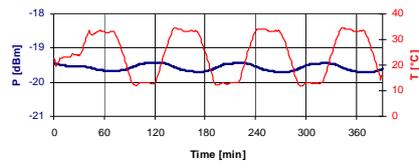
Light Source:		
Output power		<b>Note:</b>
LD 850 nm, LED 850, 1300 nm	-26 dBm (62.5/125 $\mu$ m fiber)	typ. value
LD 1310, 1490, 1550, 1625 nm	-16 dBm	
Stability (1 hour, delta/2):		tested after 20 min warm up temperature 23 $\pm$ 1°
LD 850 nm, LED 850, 1300 nm	$\pm$ 0.03 dB	
LD 1310, 1490, 1550, 1625 nm	$\pm$ 0.05 dB	

Power Meter:		
Photodetector	1 mm InGaAs	
Working wavelengths	MM: 850, 1300 nm SM: 1310, 1490, 1550, 1625 nm	can be customized
Uncertainty	$\pm$ 12%	1310, 1550 nm @ -20 dBm
Resolution	0.1	
Dynamic range	-55 dBm to +10 dBm -53 dBm to +17 dBm	1300, 1310, 1490, 1550, 1625 nm 850 nm

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

### Application:

- Optical networks measurements
- Fiber continuity testing



temperature drift of output level

### Ordering Code:

**OFT-920 - XX - XXXX - XXX**

<b>M5</b> (MM)	MM 50/125 $\mu\text{m}$
<b>M6</b>	MM 62.5/125 $\mu\text{m}$
<b>SM</b>	Singlemode

**Source wavelength**  
as below

#### Connector type<sup>2</sup>

- HMA2** HMA<sup>1</sup> Expanded Beam connector (non-contact optics), 2 fibers
- HMA4** HMA<sup>1</sup> Expanded Beam connector (non-contact optics), 4 fibers

Note: 1) HMA-J compatible  
2) Other connector types available on request

light source code	Description <sup>1</sup>	application
<b>LD650</b>	650 nm visible laser	visual checking
<b>LD850</b> <b>LED850</b> <b>LED30</b> <b>LED850-30</b>	850 nm LD (VCSEL) 850 nm LED 1300 nm LED 850 nm + 1300 nm LED	MM fiber testing
<b>LD31</b> <b>LD55</b> <b>LD62</b> <b>LD31-55</b>	1310 nm LD 1550 nm LD 1625 nm LD 1310 + 1550 nm LD	SM fiber testing

Note: 1) other wavelengths and port combinations on demand

Czech Army part number:                      NATO stock number:  
OFT 920-MM-HMA2-LD850-LED30    NSN: 6650-16-006-2311  
OFT 920-MM-HMA4-LD850-LED30    NSN: 6650-16-006-2316



SM + MM loss test set:  
OFT 920-M5/SM-HMA4-LED850-30/LD31-55

### Accessories:



Soft carrying case



Complete test set, including: OFT-920 tester, power charging adaptor, soft carrying case, USB Cable, reference patchcord<sup>2</sup>

Note: 2) reference patchcord – would be ordered according to STR\_03-10\_EN-HMA\_Master

