

USER MANUAL

OPTICAL FIBER TESTER

PCE-OFT 10

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

PRODUCT DESCRIPTION

- 1 - Light source port
- 2 - OPM port
- 3 - LCD display
- 4 - Reference button
- 5 - Light source / OPM button
- 6 - On / Off button
- 7 - Frequency
- 8 - Red light / Wavelength
- 9 - Unit setting
- 10 - VFL port



PRODUCT FUNCTION

On/Off

- » Under Off state, long press ON/OFF button to turn on it;
- » Under On state, long press ON/OFF button to turn off it.

Note: The default is auto-off after 30mins when it is turned on. (the alarm icon is displayed in the upper right corner of the display). If short press the ON/OFF button again, then the automatic shutdown function will be turn off or turn on.

Light source function

The power-on default is light source mode. (The SL icon is displayed in the upper left corner of the interface);

In other modes:

- » Short press SL/OP button to enter into Light source test function.
Short press λ/RL button to switch the wavelength (1310/1150nm);
- » Short press OSL button to switch the frequency (00/270/1000/ 2000Hz).

RED LIGHT FUNCTION

Red light mode

In any modes, long press λ /RL button to enter red light test mode (The RL icon is displayed in the upper left corner of the interface), the wavelength of red light is 650nm.

Frequency setting

In red light mode, short press OSL button to switch the frequency to 00/01 Hz (Steady on / flashing).

OPM TEST FUNCTION

OPM mode

Under the SL mode, short press the button OP/SL button can enter into OPM function (The OP icon is displayed in the upper left corner of the interface). This function is mainly test optical power and light attenuation value.

Unit setting

In OPM function mode, short press dBm/W button to switch the unit dBm/(m,u) nW, the mW/uW/nW units can be automatically switched according to the current laser light intensity.

Wavelength setting

In OPM function mode, short press λ /RL button to switch the wavelength to 850/980/1270/1300/1310/1490/1550/1577/1625/1650nm.

REF setting

- » REF is used to test the attenuation value of light (i.e. relative power (loss) test). This mode is mainly used for relative power or insertion loss testing.
- » In REF mode, subtract the reference value from the measured power value, and the instrument will display the device under test insertion loss or fiber link loss.
- » Each wavelength needs to set the reference value separately. Insert the unattenuated end of the socket under this option. Press and hold the REF key for 1 second to save the current unattenuated optical power (i.e. reference value) and display the value.
- » After setting the reference value, insert the attenuation end into the test end to test the insertion loss of the device or the loss of the optical fiber link.
- » In REF mode, press REF button to switch to display the attenuated data (i.e. relative power data and the unit is default to dB); Press REF again to switch to the normal power data.

Optical Power Meter Calibration

- » When the device is powered off, press and hold the OP/SL and ON/OFF buttons simultaneously for about 2-3 seconds to enter the optical power calibration interface, then release the buttons.
- » Briefly press the λ /RL button to select the wavelength you want to calibrate.
- » Insert the fiber optic cable with a signal, then use the dBm/W or OSL buttons to adjust to the desired value.
- » After that, briefly press the button to save. The screen will display a green **Calibrating** message.
- » Briefly press the OP/SL button to view the calibrated wavelengths.
- » Briefly press the λ /RL button to return to the calibration interface.
- » Press and hold the ON/OFF button to power off the device, then restart it.

Restore optical power calibration to factory settings

- » In the optical power calibration interface, press and hold the REF button to restore factory calibration.
- » When the screen displays REF, the factory optical power calibration has been successfully restored.
- » Then, press and hold the ON/OFF button to power off and restart the device.

OPM + SOURCE LIGHT COMBINE FUNCTION

OPM + SL mode

Short press CP/SL button to enter OPM+SL mode (OP/SL), Users can test optical power indifferent wave length.

Unit Switch

Short press dBm/W button under OPM+SL mode to switch the unit among dBm/(m,u) nW; the unit will auto-change according to the source unit.

Wavelength Switch

Short press λ /RL button to change the wavelength between 1310nm and 1550nm.

Frequency Switch

Short press OSL button to switch among the frequency among 0/270/1000/2000 HZ.

PRODUCT PARAMETERS

Display	Color
Red light function	Steady on / Flashing
	Wavelength 650nm
Light source function	Wavelength 1310 / 1550 nm
	Frequency 270 / 1000 / 2000 Hz
OPM test function	Unit dBm / (m,u) nW
	Wavelength 850 / 980 / 1270 / 1300 / 1310 / 1490 / 1550 / 1577 / 1625 / 1650 nm
	REF function
OPM + Source Light Combine function	Wavelength 1310 / 1550 nm
	Frequency 270 / 1000 / 2000 Hz
	Unit dBm / (m,u) nW
Auto-Off	Shut off if no any operate for 30 mins (this function can be set on / off)
Low battery indicator	Yes
Working temperature	-20°C ... 50°C
Power supply	3.7V 1500mA lithium
Dimension	139 x 84 x 29mm

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DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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