

Pro'sKit®

Optical Laser Source
MT-7801/MT-7802/MT-7803

English

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USER'S GUIDE
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MT-7801/MT-7802/MT-7803

English

WARNING

You are cautioned that changes or modifications not expressly approved in this document could void your authority to operate this equipment.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

NOTE

As the laser is harmful to the eyes, do not attempt to disassemble the cabinet.



Precautions for Use

Use batteries

At the same time, can not use different style or different capacitance batteries. And only charge the rechargeable batteries.

Avoiding condensation problems

As much as possible, avoid sudden temperature changes. Do not attempt to use the drive immediately after moving it from a cold to a warm location, to raising the room temperature suddenly, as condensation may form with in the drive. If the temperature changes suddenly while using the drive, stop using it and take out batteries for at least an hour.

Storage

When long time no use, must take out the batteries to avoid destroying the device.

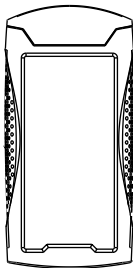
Contents

1. Warning and Note	1
2. Accessories	3
3. Product presentation	4
3.1 Description	4
3.2 Install the battery	5
3.2 On/off and permanent on	6
3.3 Backlight function	7
3.4 Select wavelength	8
3.5 Modulation wave output	9
3.6 Wavelength identification	10
3.7 Battery energy Indicator	11
3.8 Battery charge	12
3.9 Maintenance and solution	13
3.10 Detail parameter	14

Check the accessories Standard Edition



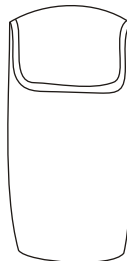
Host



Damping Jacket

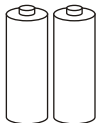


User's Guide

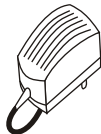


Packet

Optional

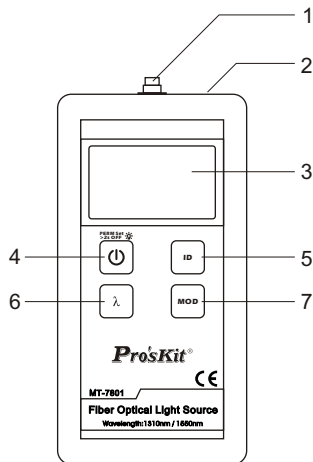


2x AA LR6 1.5V or rechargeable battery



charger/ out put: 5v 500mA

Description



1 Fiber optic adapter

2 Charging Socket

3 LCD

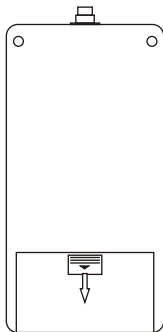
4 Power Button

5 Wavelength ID

6 Output wavelength switch button

7 Load modulation frequency

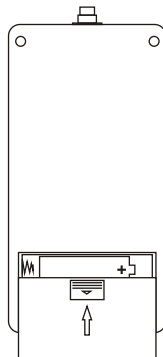
Installing the battery



1.Pull the battery cover



2.Installing the battery



3.Push the battery cover




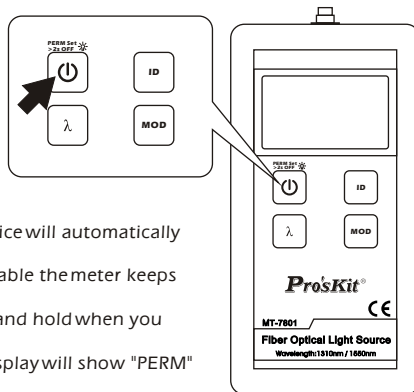
4.Complete

On/Off and Permanent On


Press “  ” button will turn on the meter .

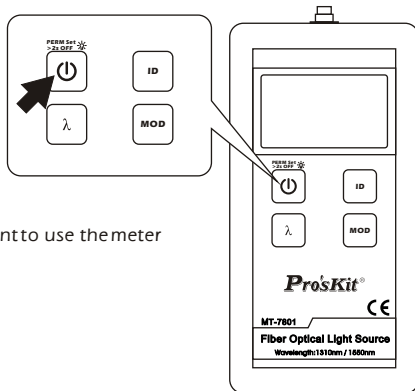
Press button again for two seconds or more will turn off the meter.

This meter has a power-saving function, normal boot and ten minutes without any operation, the device will automatically shut down. If you need to shield this function and enable the meter keeps on working, only need to press the “  ” button and hold when you boot the instrument. After two seconds, the meter display will show "PERM" which means permanent power on.

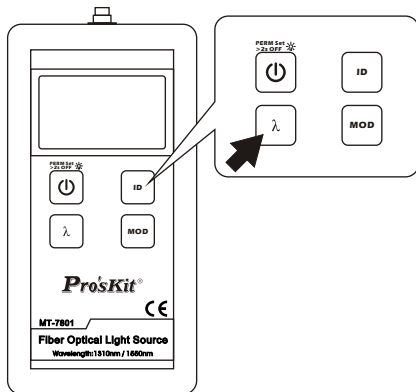


Backlight Function

Under boot status, short press the “” button, you can control the backlight function on or off. The backlight function is used when you want to use the meter at night or darker occasions.



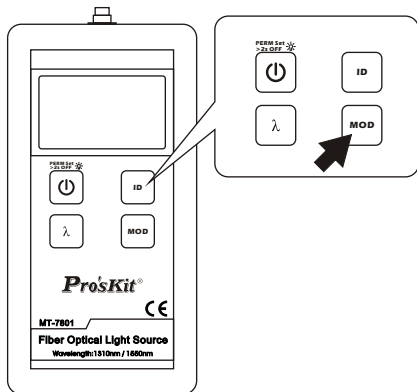
Select Wavelength



After pressing “ λ ” button, you can select the required output wavelengths. Details refer to the parameters table.

The power meter or other measuring equipments should correspond the wavelength of the light source.

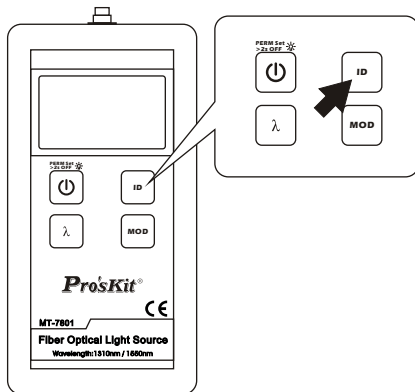
Modulation wave output



After pressing “ MOD ” button, you can load a confirmed carrier frequency in the current output laser.

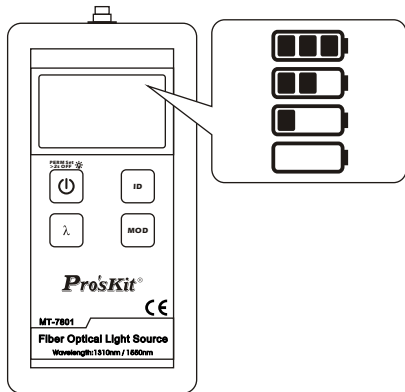
This instrument has three carrier frequencies for selecting: 270Hz, 1KHz, 2KHz.

Wavelength identification



Press “ ID ” Button, it start the wavelength recognition function, and the upper left of the display screen shows 'Id'. When connect with the power meter supporting wavelength recognition function, it can show the current output wavelength of light source, and switch to measure the wavelength automatically.

Power Indicator



Four levels indication of power detection



Represents the remaining 80%---100% electricity



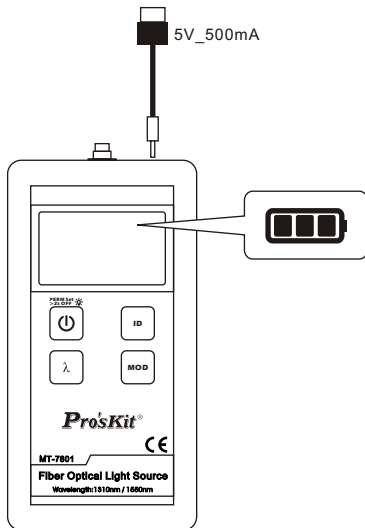
Represents the remaining 40%---80% electricity



Represents the remaining 20%---40% electricity



Represents the remaining electricity less than 20%



Charge

The instrument has a charging function. When use rechargeable batteries and a low battery indication shows on the instrument, you should promptly shut down it and recharge. Long time undervoltage will shorten the lifetime of the rechargeable battery.

Connect the AC adapter to the device correctly, it can charge automatically. Besides, computer USB port can also be used for charging. The battery remaining indicator keeps flashing during charging. It will stop when the charging is finished. The battery has finished the fast recharge and can be used directly. If you do not stop recharging at this time, the instrument will continue the trickle charge state, using small current to supply natural discharge. But this process is not more than 48 hours.

The instrument can still be used while charging. But do not plug in the AC adapter when it is not rechargeable battery inside, or it will cause a high temperature and combustion, even explosion.

Meter Maintenance and Solution

General maintenance

Optical fiber connect the adapter should avoid contacting with hard objects and keep clean.

Should be stored in a dry and ventilated place to avoid moisture.

When un use for long time, should remove the batteries before storage.

Fault and solution

Failure name	Failure Cause	Solution
Cannot boot	Check the battery has power or not	Check the batteries are installed correctly
Immediately shutdown after booting	Check the battery has power or not	Replace or recharge the batteries
Can display, but all operations are valid	The instrument program is disordered	Reboot
Cannot charge	Using non-rechargeable battery.	Reinstall the rechargeable batteries
Garbled	Incorrect reset	Reboot

Detail Parameters

	MT-7801	MT-7802	MT-7803
Wave source type	FP	FP	1310nm/1550nm@FP 1490nm@DFB
Wavelength	1310nm/1550nm(SM)	850nm/1300nm(MM)	1310nm/1490nm/1550nm(SM)
Output power	> -5dBm	> -10dBm	> -5dBm
Optical connector	SC/PC		
Stability	$\pm 0.05\text{dBm}/1\text{ hour}$; $\pm 0.1\text{dBm}/8\text{ hour}$		
Modulation wave	270Hz, 1KHz, 2KHz		
Auto off	10 min (can be cancelled)		
Low battery warning	Low battery energy		
Operation voice prompts	Yes		
Backlight	Yes		
Body protection	Yes		
Battery life	> 40 hour		
Storage Temp.	$-20^{\circ}\text{C}\sim +70^{\circ}\text{C}$, <90%RH		
Operation Temp.	$-10^{\circ}\text{C}\sim +60^{\circ}\text{C}$, <90%RH		
Power source	AA/LR6 1.5V X2 PCS (not include)		
Size	165mm*80mm*35mm		
Weight	280g		
Individual packing	Color box		