

MT-7615/MT-7616 4合1多功能光功率计 Optical Power Meter

操作说明书 User's Manual



警告

进行任何本手册未明确允许的改变或改装将使您丧失操作本设备的权利。要减少火灾或电击的危险,切勿将此设备暴露在雨中或潮湿的环境中。为防止触电,请不要打开外壳,必须由有资格的人员进行维修。

注意

由于本机的激光束对眼睛有害,不要试图拆卸外壳,或直视激光输出口。

使用注意事项

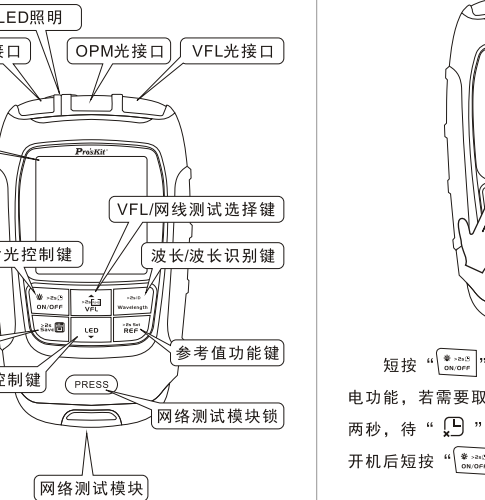
使用电池

- 1.使用正确的锂电池充电器;不使用时,不要让产品长期保持充电状态;长期存放后使用时,请在使用前将电池充满电。
- 2.切勿将产品放入水中;不要将产品靠近火源或在高温环境下使用。
- 3.不要拆卸、打开或破坏内部锂电池;不要焚烧或毁坏电池,可能会爆炸或释放有毒物质;不要让产品受到强烈冲击。
- 4.产品废弃请遵循当地法律法规要求。

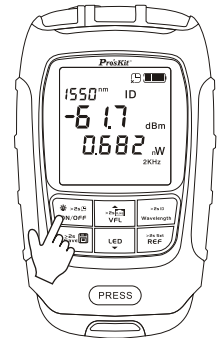
避免结露

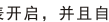
应尽可能避免温度的突然变化。将设备从冷的地方移到热的地方后,或房间内突然升温后,不要立即使用,因为设备内可能结露。

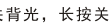
外观



开机和省电

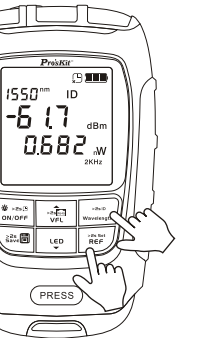


短按“ ON/OFF”键后仪表开启,并且自动启动省电功能,若需要取消该功能,则在开机时按住此键两秒,待“ ”图标亮起后表示取消自动关机。

开机后短按“ ON/OFF”键开关背光,长按关机。

关机状态下,长按“ ON/OFF”键+“ Wavelength”键开机进入偏移量设置界面,短按上下键,调整设置偏移量,设置范围[-5,+5],短按“ ON/OFF”键,确认偏移量设置。

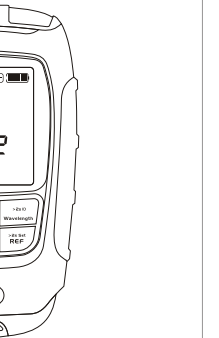
光功率计和偏移量(用户自校准)设置

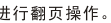
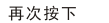


开机后则进入光功率计界面,短按“ LED REF”键可切换单位和查看REF设定值,长按此键可将当前测量值设定为新的REF值,短按“ Wavelength”键可切换测量波长,长按可开启波长识别功能。

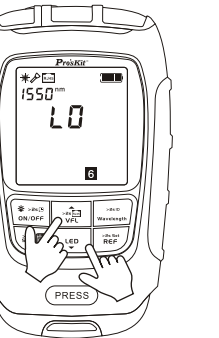
关机状态下,长按“ ON/OFF”键+“ Wavelength”键开机进入偏移量设置界面,短按上下键,调整设置偏移量,设置范围[-5,+5],短按“ ON/OFF”键,确认偏移量设置。

光功率存储和查看

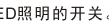


光功率计界面下长按“ SAVE”可将当前测量值存储在仪表内,仪表可存储500条数据,存储按序号自动排列,超过500条则重新从第一条开始存储并将原来的记录替换。短按该键可查看存储记录,用“ VFL”“ LED”键进行翻页操作。再次按下“ SAVE”退出存储界面。

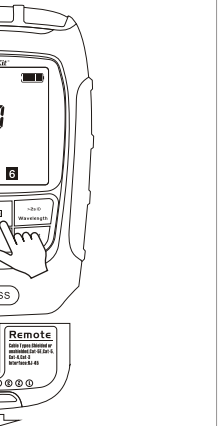
VFL/网线测试和LED照明



开机后短按“ VFL”键可控制VFL红光源的开关/闪烁,长按可进入网线测试界面。

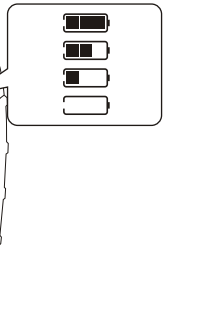
按“ LED”键可控制LED照明的开关。

网线测试模块



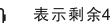
按住“PRESS”键不放,向下拔出网络测试模块,不用时按反方向插入到收纳槽中即可。长按“ VFL”键打开网络测试,将网线连接好后自动开始测量。

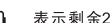
电量指示

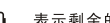


电量检测有四级指示

 表示剩余80%---100%的电量

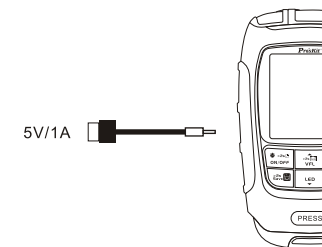
 表示剩余40%---80%的电量

 表示剩余20%---40%的电量

 表示剩余的电量不足20%

充电

本仪表具有充电功能,当仪表上指示电量不足时,应及时关机进行充电,长时间欠压将会导致电池的寿命缩短。
充电时采用Micro USB充电线插入5V 1A以上适配器、充电宝或笔记本电脑的USB端口进行,充电时间不宜超过24小时。



产品保固卡

购买日期		店章
公司名称		
联络电话		
电子邮箱		
联络地址		
产品型号	☐ MT-7615 ☐ MT-7616	
产品序列号		

在正常使用情况下,自原购买日起12个月免费维修保证(不含耗材、消耗品及另配工具)。

产品保固卡需盖上店章、日期章,其保固效力始生效。

本卡请妥善保存,如需维修服务时,请出示本卡以为证明。

购买发票可作为服务依据。

保固期满后,属调整、保养或是维修性质之服务,则酌收检修工时费用。若有零件需更换,则零件费另计。

产品保固说明

保固期限内,如有下列情况者,维修中心则得酌收材料成本或修理费(由本公司维修人员判定):

对产品表面的损伤,包括外壳裂缝或刮痕;
因误用、疏忽、不当安装或测试,未经授权打开产品修理,修改产品或者任何其它超出预期使用范围的原因所造成的损害;
因事故、火灾、电力变化、其它危害,或自然灾害所造成的损害。

非服务保证内容:

机件本体之外之附件:挂绳,USB充电线等。

超过保证期限之检修或服务,虽未更换零件,将依公司保固维修政策酌收服务费。

制造商:

宝工实业股份有限公司

销售/生产商:

上海宝工工具有限公司

上海市浦东新区康桥东路1365弄25号

400服务热线: 400-1699-629

电话: 021-68183050

网址: www.prokits.com.tw

MT-7615/MT-7616 4 In 1 Fiber Optical Power Multimeter

User's Manual



WARNING

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

To reduce the risk of fire or electric shock, do not expose this device 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

1. Please use right original AC/DC adapter to charge; Do not keep the device in charging status when not use; and be sure fully charge the device if re-use after long-term placed.

2. Keep the device away from water, fire or high temperature environment.

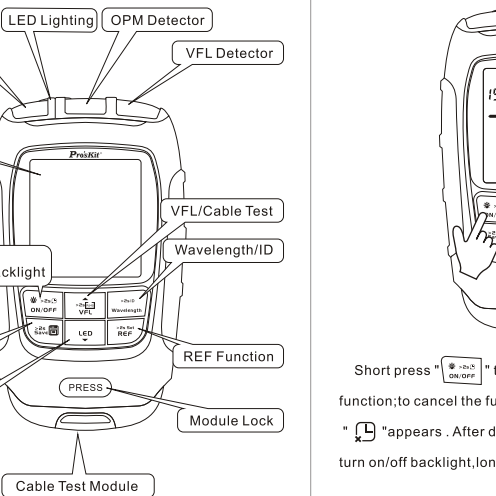
3. Do not disassemble, open or destroy the inside lithium battery, or set it on fire, which may lead to explosion or release toxic substances; Please keep the device away from strong shock or vibration.

4. Please obey local laws and regulations to solve the discarded products.

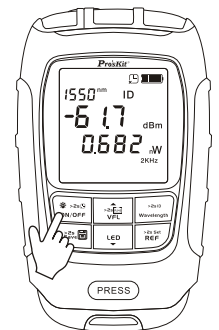
Avoiding condensation problems

As much as possible, avoid sudden temperature changes. Do not attempt to use the device immediately after moving it from a cold to a warm location, or raising the room temperature suddenly, as condensation may form with in the device.

Description

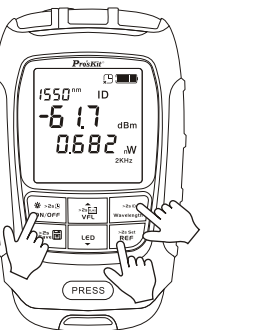


On/Off and Auto-off



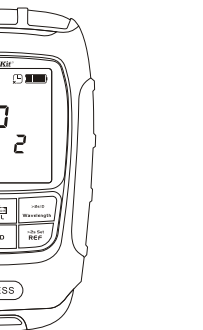
Short press "ON/OFF" to turn on the device with auto-off function; to cancel the function, long press "ON/OFF" until "OFF" appears. After device on, short press "ON/OFF" to turn on/off backlight, long press to turn off the device.

Optical power meter and Offset(self-calibration)Setting



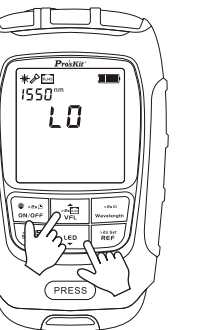
Turn on the device and enter OPM interface, short press "REF" key to switch unit and check REF value; long press to set current value as new REF value. Press "Wavelength" key to select the wavelength; long press to open WAVE ID function. Long press "ON/OFF" and "Wavelength" key at the same time to turn on the device and enter the Offset setting interface; press up/down key to set, the range is [-5, +5]; then press "ON/OFF" key to confirm the setting.

Data Storage



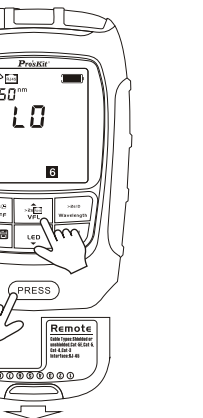
Long press "SAVE" to save the current OPM value, Max 500 data storage; the initial data will be covered after more than 500 data are saved. Short press to check the saved data, switch pages by "VFL" and "LED". Press "Wavelength" again to exit data storage.

VFL/Cable Test and LED Lighting



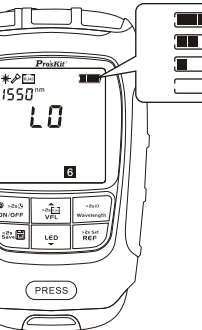
Short press "VFL" to switch VFL output mode. Long press "VFL" to turn on/off cable test mode. Short press "LED" to turn on/off LED lighting.

Cable Test Module



Press the module lock "press" key to pull out the module to test network cable, and push it back after testing; then make sure the module is locked tightly. Long press "VFL" to open the network test, and the measurement will start automatically after the network cable is connected.

Power Indicator



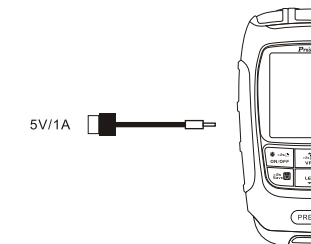
Four levels indication of power detection

- Remain 80%---100%
- Remain 40%---80%
- Remain 20%---40%
- Remain less than 20%

Charge

The device has a charging function. When the power is less than 20%, you should promptly shut down it and recharge. Long time undervoltage will shorten the lifetime of the rechargeable battery.

Insert Micro USB cable to 5V/1A charging adapter, power bank or computer to charge the device, and charging time should be within 24 hours.



Specification

	MT-7615	MT-7616
Detector Type	InGaAs	
Wavelength Response Range	700~1700nm	
OPM Connector	2.5mm universal connector	
Measurement Wavelengths	850/980/1270/1310/1490/1550/1577/1625/1650nm	
Measurement Range	-70~+10dBm	-50~+30dBm
Resolution	0.01dB	
Accuracy*	±0.2dB (1310/1550nm) ±0.3dB (850/980/1300/1490/1625/1650nm) ±1dB (1270/1577nm)	
Unit	dB, dBm, mW, uW, nW	
Modulation Detection	270/1k/2kHz	
Data Storage	500 groups	
Wavelength Memory	Yes	
WAVE ID	Yes (Only for Prokits' light source products)	
User Self-calibration	Yes	
REF	Yes	
Back Light	Yes	
Output Power	15mW	30mW
Testing Distance*	10-12km @SM	14-16km @SM
VFL Connector	2.5mm universal connector	
Wavelength	650±20nm	
Operation Mode	CW/2Hz Glint	
Network Application	UTP network cable	
Interface	RJ45 (UTP/8P8C)	
Testing Type	Network sequence	
Testing Distance	600m	

Specification

Illumination	LED
Auto Power-off	Yes (no operation in 10 minutes)
Low Battery Indicator	Battery level
Charging Socket	Micro USB
Working Time	>50 hours (only OPM)
Power Source	3.7V/450mAh
Operation Temperature	-10~50°C
Size	98*59*27mm
Weight	100g

* at 20°C ±2°C, 40%-60%RH, with standard testing fiber
 * MT-7615 Accuracy range: +3dBm~-60dBm. Others as following:
 ±0.5dB: +3dBm~-60dBm, -60dBm~-65dBm@1550nm wavelength
 ±3.0dB: +6dBm~-10dBm, -65dBm~-70dBm@1550nm wavelength
 * MT-7616 Accuracy range: +23dBm~-40dBm. Others as following:
 ±0.5dB: +23dBm~-26dBm, -40dBm~-45dBm@1550nm wavelength
 ±3.0dB: +26dBm~-30dBm, -45dBm~-50dBm@1550nm wavelength
 * Testing distance will be influenced by environment and visual sensitivity

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