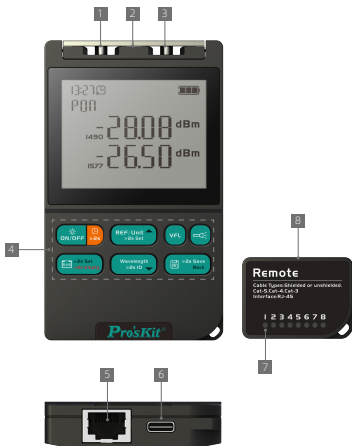


MT-7606/MT-7606PRO XGPON Optical Power Meter

User's Manual

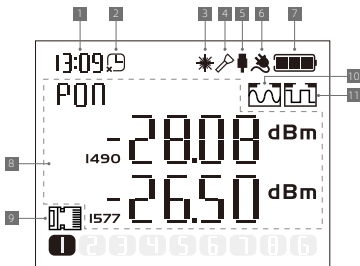


Appearance

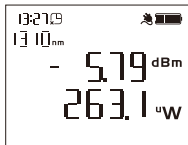


- | | | | |
|---|----------------------|---|------------------|
| 1 | OPM connector | 2 | LED light |
| 3 | VFL connector | 4 | Function key |
| 5 | RJ45 connector | 6 | Type-C connector |
| 7 | RJ45 cable indicator | 8 | RJ45 connector |

Display Description



- | | |
|--------------------------------------|---|
| 1 Time | 2 Power-saving mode |
| 3 VFL | 4 LED |
| 5 Data | 6 Power |
| 7 Battery level indicator | 8 Optical power meter information area |
| 9 RJ45 sequence testing | 10 Analog tracing (optional) |
| 11 Digital tracing (optional) | |



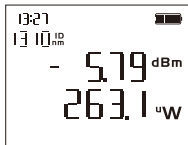
Short press the '' button to turn on the device and automatically turn on the power saving function. It will automatically shut down if there is no operation for 10 minutes.

To turn off the power saving function, long press '' when the device is off. The '' icon lights up at the top, indicating that the power saving function is turned off. After powering on, short press the '' button to turn on or off the screen backlight. Long press the '' key to shut down the device in any interface.

Connect the recommended power adapter to the Type-C port. '' icon lights up when power is connected. '' icon animates while charging, stays static when fully charged.

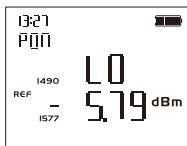
*Recommended power adapter specifications: 5V/1A

OPM Wavelength and Wavelength/Carrier Identification



After booting up, enter the XGPON optical power meter interface and short press '  ' to switch the measurement wavelength. The device supports the measurement of the following calibration wavelengths: Measurement of 1270nm, 1300nm, 1310nm, 1490nm, 1550nm, 1577nm, 1625nm, 1650nm and simultaneous measurement of 1490nm and 1577nm.

The wavelength/carrier identification function can only be used normally in combination with the matching laser light source. The carrier wavelength can be automatically identified when measuring with the matching laser light source. "Wavelength identification" can automatically identify the corresponding wavelength to match the optical power meter. Long press '  ', and ' **ID** ' lights up, indicating that the wavelength recognition function is turned on. Long press '  ' again to turn off the wavelength identification function.

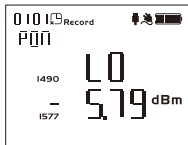


The reference value setting is generally used to remove the attenuation value that is not calculated in the actual line loss before measuring the actual line, or to compare the difference with the set standard power.

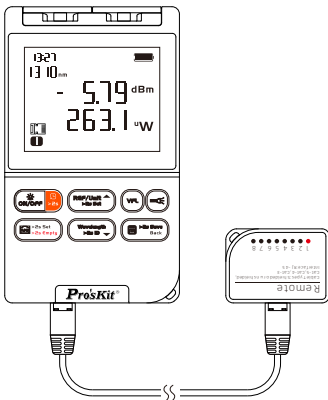
Short press ' , the PON interface polls the current power, the actual measured relative difference (dB) and mW display. The normal measurement wavelength interface polls and displays the current power, REF value and the actual measured relative difference (dB).

Long press ' , to set the current measured value as the new REF value.

OPM Storage and Viewing, along with Data Communication

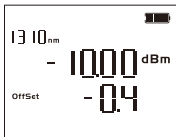


- **Storage:** In the optical power meter interface, long press the ' Save Back' key to store the current measurement information, and the current storage number will be displayed on the interface. The device can store up to 1,000 records, and the first record will be overwritten when there are more than 1,000 records.
- **View:** In the optical power meter interface, short press the ' Save Back' key to enter the storage value viewing interface. Use the ' RSP/Unit' and ' Wavelength' keys to turn pages, and long press to quickly turn pages. Long press ' 2x Set' to clear the storage record, and the interface displays "ALL ZERO". This operation cannot be undone. Short press ' Save Back' to exit the storage interface.
- **Data Communication:** Use a USB-C data cable to connect the host to the PC. Install the host software on the PC to perform data communication related operations. The '' icon flashes, indicating that communication is in progress.

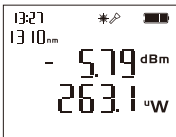


Short press the '  >2s Set >2s Empty ' button to turn on/off the network cable test function, and the '  ' icon will display the status synchronously.

Connect both ends of the network cable to the host and module respectively. You can determine whether the network cable is qualified based on the host UI and module indicator light status.



(Time/Offset Settings)



(VFL/LED Light)

In the optical power meter interface, long press ' >2s Set >2s Empty' to enter the setting interface. The hour is selected by default. At this time, short press the ' >2s Set >2s Empty' key to cyclically switch to the minute/optical power offset*8 wavelength setting. Short press ' RSP/Unit >2s Set' and ' Wavelength >2s ID' to adjust the value. Long press is supported for quick adjustment. The setting function takes effect in real time. Short press ' >2s Save Back' to save and return to the optical power meter page.

*Each wavelength offset adjustment range: -5dB~5dB

Short press ' VFL' to switch the VFL status: ON/GLINT /OFF.

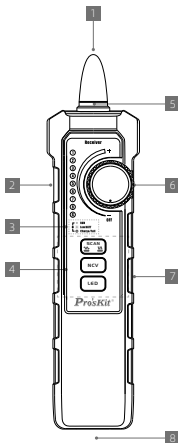
The '' icon will display the status synchronously.

Short press '' to switch the LED light status: ON/OFF.

The '' icon will display the status synchronously.

Receiver

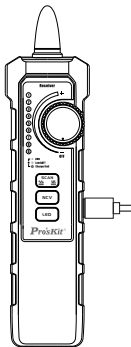
MT-7606PRO only



- | | | | | | |
|---|-------------|---|--------------|---|------------------|
| 1 | Probe | 2 | Headset Jack | 3 | Status Indicator |
| 4 | Keypad | 5 | LED Light | 6 | Power Switch |
| 7 | Type-C Port | 8 | RJ45 Socket | | |

Charge(Receiver)

MT-7606PRO only



Use the recommended power adapter and cable to connect to the Type-c interface. The icon lights up, indicating that the power supply is connected.

● **RUN** Green light, battery power is normal.

☀ **Low BATT** The green light flashes, indicating low battery power.

● **Charge/Full** Red light, charging status.

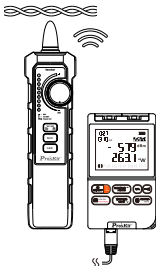
*Recommended power adapter specifications: 5V/1A

Network Cable Test

MT-7606PRO only



[Network Cable Test]



[Network Cable Tracing]

Short press " >2s Set <2s Empty" to enable the network cable test, and the " " icon will display the synchronization status. Connect the host and receiver to the two ends of the network cable respectively. You can determine whether the network cable is qualified by observing the status of the indicator lights on the host UI and receiver.

Press the " >2s Set <2s Empty" key twice to activate the analog line finding function; the " " icon will display the status accordingly. Connect one end of the network cable to the host and use the receiver to assist in cable finding.

Press the " >2s Set <2s Empty" key three times to activate the digital line finding function. the " " icon will display the status accordingly. Connect one end of the network cable to the host and use the receiver to assist in cable finding.

Network Cable Tracing-Receiver Settings (Analog)

MT-7606PRO only



The red indicator light is on, indicating that the receiver is in analog signal receiving mode, and the green indicator light is on, indicating that the receiver is in digital signal receiving mode.

Turn the receiver knob clockwise to turn the receiver on. Short press "  " to turn on the cable tracing function (analog). The receiver will then emit a beep. When the button backlight turns red, it indicates that the analog cable finding mode is activated.

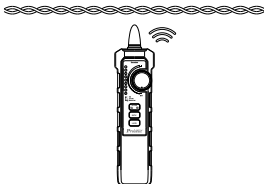
When the probe gradually approaches the test network cable, the receiver will emit regular beep reminders and the light ring above will flash. The adjustment knob on the receiver is used to adjust the sensitivity (clockwise to the end for the highest sensitivity).

▲Note: When searching for cables in the network, due to the network switch (the transmitter transmits the signal and transmits it to other network cable ports through the internal circuit of the switch), several network cables close to the target network cable may have audio signals. In this case, you can try to turn the receiver sensitivity knob counterclockwise to reduce the receiving sensitivity to find the target network cable.

Note: The modes of the host and receiver need to be consistent, otherwise the signal will not be received.

Network Cable Tracing-Receiver Settings (Digital)

MT-7606PRO only



Turn the receiver knob clockwise to turn the receiver on. Short press "  " to turn on the cable tracing function (digital). The receiver will then emit a beep. When the button backlight turns green, it indicates that the digital cable search mode is activated.

When the probe gradually approaches the test network cable, the receiver will emit regular beep reminders and the light ring above will flash. The adjustment knob on the receiver is used to adjust the sensitivity (clockwise to the end for the highest sensitivity).

▲Note: When searching for cables in the network, due to the network switch (the transmitter transmits the signal and transmits it to other network cable ports through the internal circuit of the switch), several network cables close to the target network cable may have audio signals. In this case, you can try to turn the receiver sensitivity knob counterclockwise to reduce the receiving sensitivity to find the target network cable.

Note: The modes of the host and receiver need to be consistent, otherwise the signal will not be received.

Receiver- NCV Function

MT-7606PRO only



Turn the receiver knob clockwise to turn the receiver on. Short press " **NCV** " to turn on the NCV mode. When a voltage greater than the threshold is detected, the receiver horn will make a "beep" sound, and the ring light on the probe will flash.

▲Note: Nearby external interference sources (such as the charger without grounding, etc.) may trigger non-contact voltage detection.

Even if there is no indication, voltage may still be present. Don't rely solely on a non-contact voltage detector to determine whether voltage is present on a wire. Detection operations may be affected by factors such as socket design, insulation thickness and type.

Specification

Model	MT-7606	MT-7606PRO
OPM		
Detector Type	InGaAs	
Wavelength Response Range	700nm~1700nm	
Measurement Wavelength	1270/1300/1310/1490/1550/1577/1625/1650nm (Dual-wavelength measurement at 1490/1577nm)	
Measurement Range	-70~+10dBm	
Accuracy	±0.2dB (1550nm)	
	±0.3dB (1310/1490nm)	
	±1dB(1270/1300/1577/1625/1650nm)	
Wavelength Isolation	1490vs 1577nm > 30dB, 1577vs 1490nm > 30dB	
Resolution	0.01dBm	
Modulation Detection	270/330/1K/2KHz	
OPM Connector	2.5mm universal connector	
WAVE ID	Yes(only for Pro'sKit light source products)	
Data Storage	1000 groups	
Wavelength Memory	Yes	
User Self-Calibration	Yes	
Power Source	3.7V/600mAh Li-ion	
Charging Socket	Type-C	
VFL		
Output Power	15mW	
Wavelength	650±20nm	
Operation Mode	CW/2Hz Glint	

Specification

Model	MT-7606	MT-7606PRO
Network Test		
Interface	RJ45	
Mapping	testing distance 600m	
Cable Tracing	600m; Analog/Digital mode	
Detection Frequency	455KHz	
Remote Adaptor	Yes	Yes
Cable Tracing Receiver	No	Yes
Other Features		
LED Lighting	Yes	
NCV Test	No	Yes
Auto power off	Yes(no operation in 10 minutes, can be disable)	
Back Light	Yes	
Size	100x59x15mm	
Weight (approx)	100g	

*Test conditions: 23°C±2°C, 40%-60%RH,with standard test cable.

*Accuracy Range:+3dBm~-60dBm; other as follows:

±0.8dB: +3dBm ~ +6dBm, -60 dBm ~ -65dBm @1550nm test wavelength.

±3.0dB: +6dBm ~ +10dBm, -65 dBm ~ -70dBm @1550nm test wavelength.

*Cable tracing and mapping distances may vary depending on on-site electromagnetic radiation and humidity.



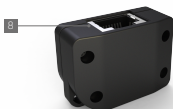
MT-7606/MT-7606PRO XGPON光功率计

操作手册



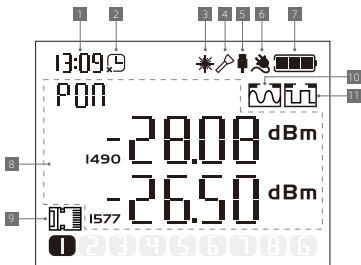


- | | | | | | |
|---|-------|---|--------|---|----------|
| 1 | OPM接口 | 2 | LED灯 | 3 | VFL接口 |
| 4 | 功能键 | 5 | RJ45网口 | 6 | Type-c接口 |

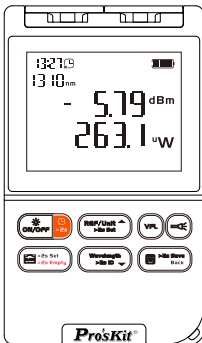


7 线序测试指示灯

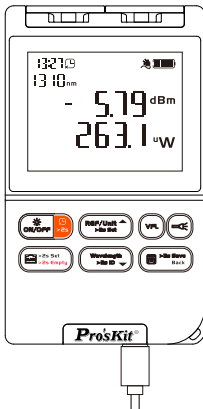
8 RJ45网口



- | | |
|---------------|---------------|
| 1 时间图标 | 2 省电功能图标 |
| 3 VFL图标 | 4 LED图标 |
| 5 数据通信图标 | 6 电源图标 |
| 7 电量指示图标 | 8 光功率计信息区域 |
| 9 线序测试图标 | 10 模拟寻线图标(选配) |
| 11 数字寻线图标(选配) | |

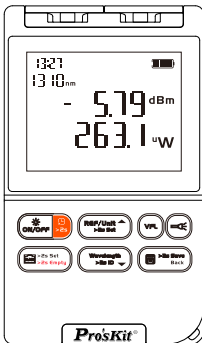


短按 “  ” 键开机，并且自动开启省电功能，无操作10分钟自动关机。若要关闭省电功能，需在关机状态下，长按 “  ” 键开机。 “  ” 图标在顶部亮起，表示省电功能关闭。开机后短按 “  ” 键开启或关闭屏幕背光。在任意界面下长按 “  ” 键关机。



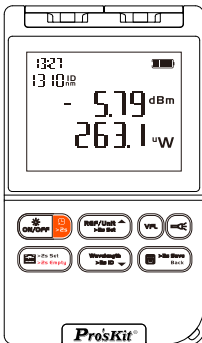
使用推荐规格电源适配器及线材接入Type-c接口，“”图标亮起，表示电源已连接。“”图标显示动态递增，充满电时“”图标静止。

*推荐的电源适配器规格：5V/1A

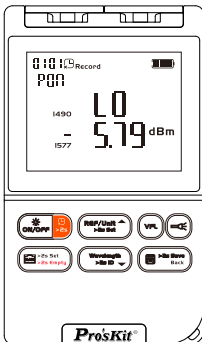


根据工程的需要，我们需要测量不同波长的光信号，此时需要选择对应波长来测量光功率，如果被测光波长和光功率计选择的波长不符，将导致测量值无意义。

开机后进入XGPON光功率计界面，短按 “ **Wavelength** **>to ID** ” 键切换测量波长，设备支持以下校准波长的测量：
1270nm、1300nm、1310nm、1490nm、1550nm、1577nm、1625nm、1650nm以及1490nm和1577nm的双波长同时测量。



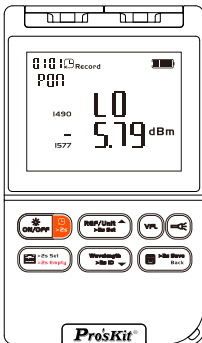
波长/载波识别功能均需与配套激光光源组合才能正常使用。载波使用配套激光光源测量时可自动识别。“波长识别”可以自动识别对应波长来匹配光功率计，长按“**Wavelength** >25 ID”键，“ID”图标亮起，表示开启波长识别功能，再次长按“**Wavelength** >25 ID”键关闭波长识别功能。



参考值的设定一般用于测量实际线路前，预先去除不计算在实际线路损耗中的衰减值，或用于比对与设定标准功率的差异。

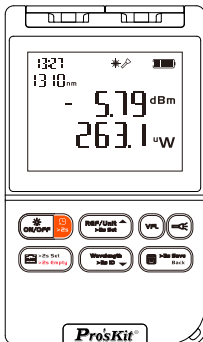
短按 “ **REF/Unit** ” 键,PON界面轮询当前功率，实际测量的相对差值（dB）和mW显示。普通测量波长界面轮询显示当前功率,REF值和实际测量的相对差值(dB)。

长按 “ **REF/Unit** ” 键可将当前测量值设定为新的REF值。

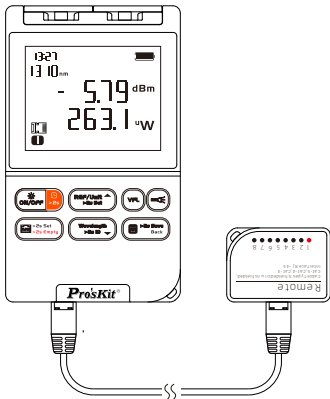


- 存储：光功率计界面下长按 “ ” 键可存储当前测量信息，界面上会显示当前存储序号。设备可存储多达1000条数据，超过1000条之后会覆盖第一条记录。

- 查看：光功率计界面下短按 “ ” 键进入存储值查看界面。使用 “ ” 、 “ ” 键进行翻页操作，支持长按快速翻页。长按 “ ” 键清空存储记录，界面显示“ALL ZERO”，此操作不可撤回。短按 “ ” 键退出存储界面。

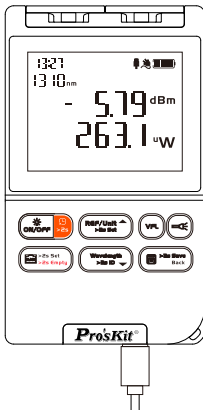


- 短按 “” 键切换VFL状态：开启/闪烁/关闭。
- “” 图标会同步状态显示。
- 短按 “” 键切换LED手电筒状态：开启/关闭。
- “” 图标会同步状态显示。

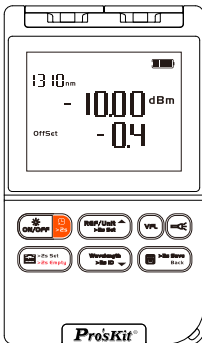


短按 “ >2s Set / >2s Empty” 键开启或关闭网线测试功能，“ ”图标会同步状态显示。

将网线两端分别接入主机和模块，根据主机UI和模块指示灯点亮状态可判断网线是否合格。



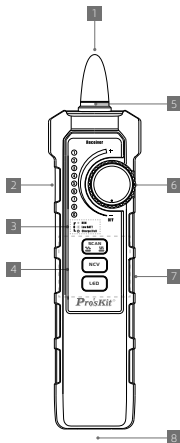
PC端通信：使用USB-C数据线将主机连接到PC端，在PC端安装上位机软件以进行数据通信相关操作，“”图标闪烁，表示正在通信中。



在光功率计界面下，长按 “ >2s Set >2s Empty” 键进入设置界面，默认选中小时，此时短按 “ >2s Set >2s Empty” 键会循环切换至分钟/光功率偏移量*8波长设置。短按 “ REF/Unit >2s Set” 、 “ Wavelength >2s ID” 键调节数值，支持长按快速调节,设置功能实时生效。短按 “ >2s Save Back” 键保存并返回光功率计面。(各波长偏移量调整范围:-5dB~5dB)

接收器

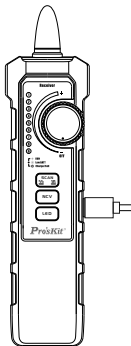
仅MT-7606PRO 配置



- | | | | | | |
|---|--------|---|----------|---|-------|
| 1 | 探头 | 2 | 耳机孔 | 3 | 状态指示灯 |
| 4 | 按键区 | 5 | LED环灯 | 6 | 开关旋钮 |
| 7 | Type-C | 8 | RJ45测试插座 | | |

接收器充电

仅MT-7606PRO 配置



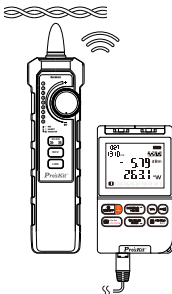
使用推荐规格电源适配器及线材接入Type-c接口,指示灯亮起,表示电源已连接。

- **RUN** 绿灯, 电池电力正常
- ☀ **Low BATT** 绿灯闪烁, 电池低电量提示
- **Charge/Full** 红色, 充电状态

*推荐的电源适配器规格: 5V/1A



[对线功能]



[寻线功能]

短按一次 “  >2s Set >2s Empty ” 键，开启网线对线功能，“  ” 图标会同步状态显示。将网线两端分别接入主机和接收器，根据主机UI和接收器指示灯点亮状态可判断网线是否合格。

短按两次 “  >2s Set >2s Empty ” 键，开启模拟寻线功能，“  ” 图标会同步状态显示。将网线一端接入主机，使用接收器配合寻线。

短按三次 “  >2s Set >2s Empty ” 键，开启数字寻线功能，“  ” 图标会同步状态显示。将网线一端接入主机，使用接收器配合寻线。



红色指示灯亮，表示接收器在模拟信号接收模式，绿色指示灯亮，表示接收器在数字信号接收模式。

顺时针旋转接收器旋钮，打开接收器。短按“”键开启寻线模式，此时接收器会发出蜂鸣声，当按钮背光亮起红色时，表示开启模拟寻线模式。

当探测器逐渐靠近测试网线时，接收器会发出规律的蜂鸣提醒，并且上面的灯环会闪烁。接收器上的调节旋钮用于调节灵敏度大小（顺时针到底灵敏度最大）。

▲注意：在网络中寻线时，因为网络交换机原因（发射器发射信号，通过交换机内部电路传输到其它网线端口），与目标网线临近的几根网线可能都有音频信号，此时，可以尝试逆时针旋转接收器灵敏度旋钮，降低接收灵敏度的方法来查找目标网线。

注意：主机和接收器的模式需要一致，否则接收不到信号。

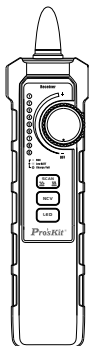


顺时针旋转接收器旋钮，打开接收器。短按 “” 键切换寻线模式，此时接收器会发出蜂鸣声，当按钮背光变为绿色时，表示开启数字寻线模式。

当探测器逐渐靠近测试网线时，接收器会发出规律的蜂鸣提醒，并且上面的灯环会闪烁。接收器上的调节旋钮用于调节灵敏度大小（顺时针到底灵敏度最大）。

▲注意：在网络中寻线时，因为网络交换机原因（发射器发射信号，通过交换机内部电路传输到其它网线端口），与目标网线临近的几根网线可能都有音频信号，此时，可以尝试逆时针旋转接收器灵敏度旋钮，降低接收灵敏度的方法来查找目标网线。

注意：主机和接收器的模式需要一致，否则接收不到信号。



顺时针旋转接收器旋钮，打开接收器。短按“NCV”键开启NCV模式，当探测到大于阈值电压时，接收器喇叭发出“滴滴声”，并且探头上环灯会闪烁。

▲注意：临近的外部干扰源（如无接地的充电器等），可能会触发非接触电压的探测。

即使没有指示，电压仍然可能存在。不要仅仅依靠非接触电压探测器来判断导线是否存在电压。探测操作可能会受到插座设计、绝缘厚度及类型不同等因素的影响。

产品规格

型号	MT-7606	MT-7606PRO
光功率计		
探测器类型	InGaAs	
响应波长	700nm~1700nm	
校准波长	1270/1300/1310/1490/1550/1577/1625/1650nm (1490/1577nm同时测量)	
显示范围	-70~-+10dBm	
准确度	±0.2dB（1550nm）	
	±0.3dB（1310/1490nm）	
	±1dB(1270/1300/1577/1625/1650nm)	
隔离度	1490对1577nm > 30dB，1577对1490nm > 30dB	
显示精度	0.01dBm	
频率识别	270/330/1K/2KHz	
光纤接口	2.5mm通用接口，兼容PC/APC端面	
波长(ID)识别	指定光源（宝工产品）	
存储	1000条	
波长记忆	有	
自助校准	有	
电池	3.7V/600mAh 充电锂电池	
充电接口	Type-C	
红光源		
功率	15mW	
波长	650±20nm	
开启模式	常开/2Hz闪烁	

产品规格

型号	MT-7606	MT-7606PRO
网线测试		
接口	RJ45	
对线测试	最大600m; 远端适配器LED显示	
寻线	最大600m; 普通/抗干扰模式	
频率	455KHz	
远端适配器	有	有
寻线接收器	无	有
其它辅助功能		
LED辅助照明	有	
非接触测量(NCV)	无	有
自动关机	有(无操作10分钟自动关机,可取消)	
屏幕背光	有	
尺寸	100x59x15mm	
重量	100g	

*测试条件: 23°C±2°C, 40%-60%RH, 使用标准测试线。

*准确度范围: +3dBm~-60dBm, 其余参考如下:

±0.8dB: +3dBm~+6dBm, -60dBm~-65dBm@1550nm测试波长

±3.0dB: +6dBm~+10dBm, -65dBm~-70dBm@1550nm测试波长

*寻线与对线测试距离受现场环境电磁辐射强度及湿度等影响。

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