# AOE TECH CO.,LTD

## PON optical power meter

## 1. General:

JF-H660i PON optical power meter is testing instrument targeted at FTTX application and maintenance. It can simultaneously test the signal of the voice, data and video. It is an ideal choice for FTTX net project, construction and maintenance.

## 2. Accessories

1. JF-H660i PON optical power meter ----------1pcs
2. FC/SC/ST adaptor interface----------1pcs
3. Operation instruction----------1pcs
4. 7.4v lithium battery----------1pcs
5. Power supply adaptor----------1pcs
6. USB cable----------1pcs
7. CD----------1pcs

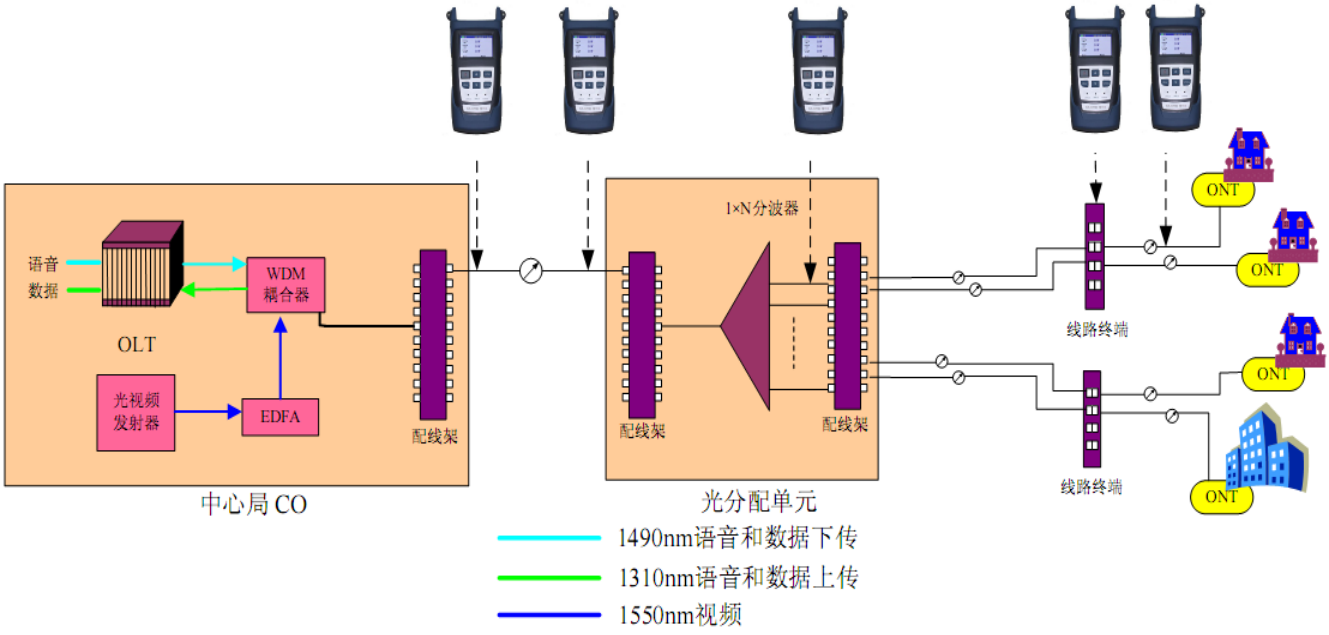
## 3. Parameter

| Type | | JF-H660i | |
|---|---|---|---|
| Calibrated wavelength | 1310upstream | 1490downstream | 1550down stream |
| bandwidth | 1260~1360 | 1470~1505 | 1535~1570 |
| Measurement range | -40~+10 | -40~+10 | -40~+20 |
| Isolation 1310nm(dB) | - | >40 | >40 |
| Isolation 1490nm（dB） | >40 | - | >40 |
| Isolation 1550nm（dB） | >40 | >40 | - |
| Measurement accuracy | | | |
| Uncertainty(dB) | | ±0.5 | |
| PDL(dB) | | <±0.25 | |
| Linearity(dB) | | ±0.1 | |

| | |
|---|---|
| Insertion loss(dB) | <1.5 |
| General index | |
| Relative measurement | 0.01dB |
| Unit | dB dBm |
| Input voltage | DC 8.4V |
| Rechargeable battery | 7.4V |
| AC adaptor | 8.4V |
| Fiber type | SM |
| Operation temperature（℃） | -10~+60 |
| Storage temperature（℃） | -25~+70 |
| Dimension | 198*99.4*49.8 |

## 1. Panel Board

## 4.1 Operation instruction





## 4.2 Button instruction:

| identification | function |
|---|---|
| ⏻ | Power on/off or auto power off setting |
| MENU | Menu or function choose |
| ENTER | Enter menu or choose present operation |
| CANCEL | Do not save, quit present operation |
| ▲ | Function choice, data increasing |

| | |
|---|---|
| dB/dBm ▼ | Function choice, data decreasing |

## 2.Specified function

### 5.1 Power on

Press ⏻ into power on state, display as follows:

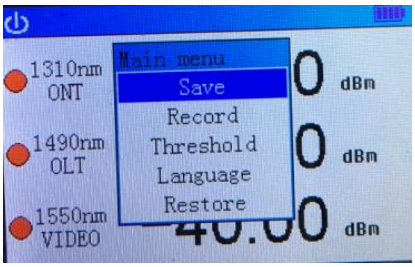
Simultaneously display results of three wavelength,1310nm upstream and 1490nm/1550nm downstream. when the light through into the light channel, it will display testing value. it displays ”-40.00dBm “without light.


### 5.2 Power off

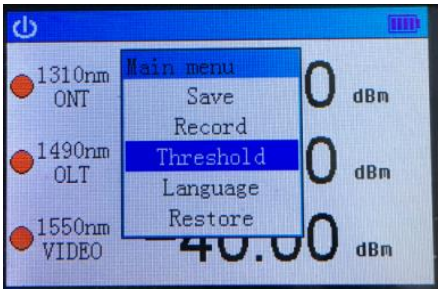
Optical power meter in open state, long press ⏻ for about 2s, it will power off.

### 5.3 Threshold value setting

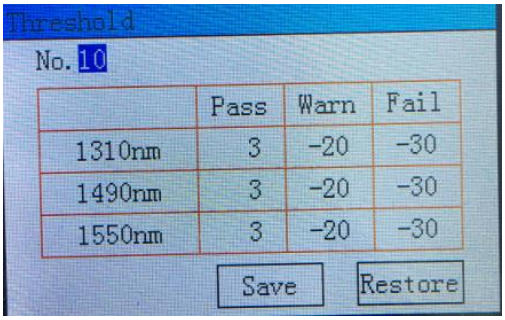
5.3.1 when in main page, press MENU button, will display as follows:



5.3.2 by press ▲and ▼, choose threshold, press ENTER,it will enter setting page as follows:

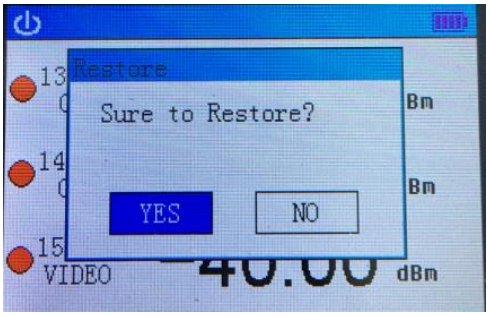



5.3.3 In this page, you can save data, history record, threshold, language,restore factory settings. Threshold setting as follows:

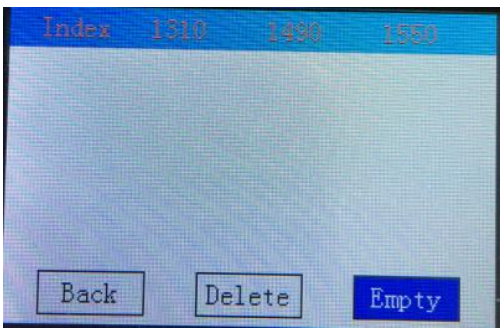



MENU can choose threshold setting menu, it can choose threshold data group(1-10group optional), it also can resetting every specified threshold data in every group. press ▲and ▼,you can increase and decrease threshold data. when it display save, press ENTER,it will come into effect.

5.3.4 when it displays factory settings, press ENTER,the threshold will restore factory settings.




5.3.5 when it displays history record, press ENTER into this page as follows:



MENU can choose “delete” and “empty” history data,if you don’t need this operation you can choose return by press ENTER,then return to main page.

**5.4 Data uploading**

The results of the measurement can be stored on the machine or stored in the machine and uploaded to the PC. As long as the cable end up in the machine PC Link interface, the other end connected to the USB port of your PC. Open the PC software, according to the default Settings and then directly upload in PC software , it can upload data to the PC.

**5.5 Measurement**

5.5.1Press the power meter, enter the threshold setting page, setting the threshold.

5.5.2 access to be tested the optical fiber

It can simultaneously operate 1310nm upstream, 1490nm and 1550nmdown stream testing.

For example: the threshold (+3dBm，-20dBm，-30dBm), power meter testing results shows that 1310nm upstream optical power meter value is +1dBm, the scope of threshold value between+3～-20dBm, means the light path is normal, so the color of the 1310nm power value in testing page displays green; If the threshold value is between -20dBm ~ 30dBm, the light path may exist a problem but can be used, and the color of the 1310nm power value in the test page is yellow. If the test light power value is beyond the scope of threshold value, namely >+3dBm or <-30dBm, meaning light path is abnormal. Power value of optical path is too strong or too weak, the color of the 1310nm power value in testing page shows red. The test of 1490nm, 1550nm, is the same.

## 3.**Application range**:

FTTX/PON: in the opening phase, all the PON signals are measured, validated and guaranteed to meet the network standards;

FTTX/PON maintenance: various transmission issues in daily maintenance, such as: connector face dirty, fiber optical curve, breakage, light terminal failure, etc. There is a decrease in signal loss or transmission performance.