

PMT-200 Manual



Button Function:

| Button | Function |
|--------------------|--|
| LED LIGHT | Turn on/off the LED Light |
| VFL | Turn on/off the VFL function, press again to change the VFL working mode |
| ОРМ | Switch the OPM calibrated wavelength(850nm/1300nm/1310nm/1490nm/1550nm/1577nm) |
| POWER R/G/E | Turn on/off the built-in emulation ONU power |
| POWER | Turn on/off the PMT-200 power |
| - 5.5 3 dBm | The power value measured by the OPM function is displayed on the screen |

Indicator description:

| POWER AUST POWER AUGT OF SIGNAL OF OF RESOURCE WIFI ID CHECK | Power light and Power R/G/E light and WiFi light will always be on after press power button and power R/G/E button. Signal Red light flashing indicate the ONU port does not receive the downlink registration signal(1490nm). Net G/E light always be on indicate the ONU is successfully registered. Net G/E light flash indicate the ONU is successfully registered. "Rescource check" and "ID" light function is not open. |
|--|--|
|--|--|



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Interface Description:



| Interface(from left to right) | Function |
|-------------------------------|---|
| 1 | Emulation ONU SC/APC port |
| 2 | OPM universal 2.5mm optical port |
| 3 | VFL universal 2.5mm optical port |
| 4 | USB port, 5V/1A, Emergency power supply |
| 5 | Charging micro USB port |
| 6 | LED Light |



| Interface(from left to right) | Function |
|-------------------------------|-------------------|
| 1 | Function not open |
| 2 | Function not open |
| 3 | Function not open |





| Device Type | GPON |
|-------------|---------|
| WiFi Name | GW-0123 |

Operation Steps

PMT-200 support GPON ONU emulation allows field technicians to troubleshoot and validate GPON network installations (from PON ID analysis, optical power readings and ODN total loss).



button to turn on the PMT-200, at this time, VFL/OPM and LED light can use normally.

| | | | GHE SIGNAL |
|----------|----------------------|------------------------|------------|
| Grandway | 1490nm ¹⁴ | | ••• |
| | 10 | | |
| PMT-200 | 60 | RESOURCE WIFI CHECK | • • |
| | | | |
| | | | |
| LED VF | L OPM | POWER R/G/E | |
| | | | |

2、Short Press

button to turn on the built-in emulation ONU power, when the power is on,

The "Power R/G/E" indicator will on.

POWER R/G/E

POWER

| 8 8 1490 am | POWER RVG/E G/E SIGNAL |
|---------------------------------|------------------------|
| PMT-200 | |
| | |
| LED LIGHT VFL OPM | POWER R/G/E POWER |
| Constant of the owned where the | |



- Wait about 90 seconds, connect the mobile phone APP with the PMT-200 via WiFi connection.
 The WiFi name of PMT-200 is GW-0123.
- 4. After the PMT-200 connected with the mobile phone APP, open the APP, Mobile app displays the initialization status. Click ONU setting enter the ONU setting interface, Input and save the ONU SN or Password that has been already registered in the OLT PON port.

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|---------------------------------------|------------------|--------------|
| PMT-200 | | |
| | | |
| ONU RX Power C | LT TX Power | ODN Loss |
| | | |
| OLT | | |
| PON ID : ODN Class OLT TX Power | | |
| ONU | | |
| | Activation: Init | ial-state |
| SN:ZTEG01004009 Password:000101 | | |
| | | ONU Settings |
| | | |
| | | |
| | | |
| | | 0 |
| [×=] Test | | Setting |

Initialization status

ONU setting interface

5. Insert the FTTH fiber to the ONU SC port, The built-in emulation ONU will extract the PON ID,OLT Tx power And the ODN Class in the downstream 1490nm signal. If the emulation ONU successfully registered in OLT, The activation status of the ONU will change to "**Operation-state**". Otherwise, ONU state change to "**Stand-by**".



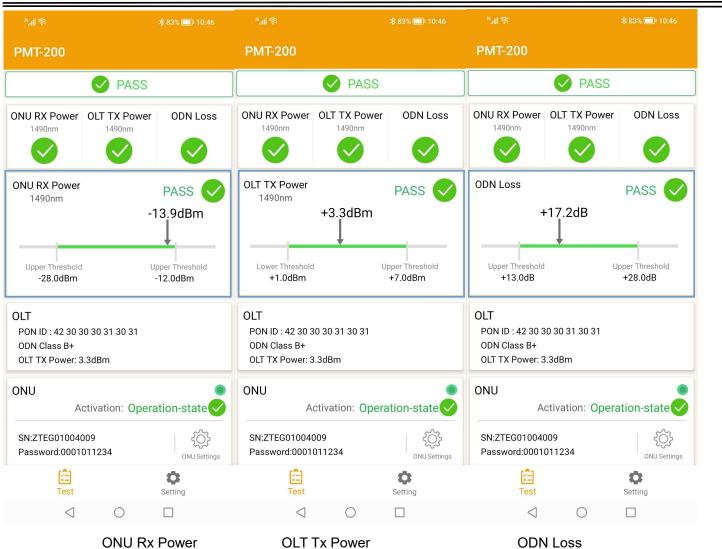
Let's go in the grandway!

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|--|-------------------------|--|------------------------|--------------|
| PMT-200 | | PMT-200 | | |
| | PASS | | 🗴 Fail | |
| ONU RX Power OI | 1490nm | ONU RX Power | OLT TX Power 1490nm | |
| OLT PON ID : 42 30 30 3 ODN Class B+ OLT TX Power: 3.3d | | OLT PON ID : 42 30 3 ODN Class B+ OLT TX Power: 3 | | |
| ONU Activ | vation: Operation-state | ONU | ctivation: Stanc | lby-state (|
| SN:ZTEG01004009 Password:0001011 | 234 ONU Settings | SN:ZTEG010040 Password:0001 | | ţĊŗ |
| | | | | |

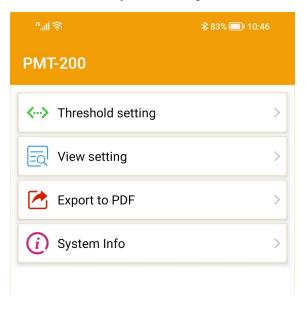
6. The PMT-200 mobile phone APP will display the comprehensive analysis results"PASS/FAIL", If the OLT Tx power, the ONU Rx power, and ODN total loss meet the setting threshold, and the activation status of the ONU is successful, PASS will be displayed; otherwise, if there is a problem with one parameter, FAIL will be displayed.
7. Click the above "ONU Rx power" and "OLT Tx power" and ODN loss, the detail infromation will display.



Let's go in the grandway!



8、 Click "Setting" button below to enter the system setting interface



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9、"Threshold": change the OLT Tx power and ONU Rx power Pass/Fail threshold, the ODN loss Pass/Fail

threshold is according to the "ODN Class type". Generally speaking, ODN upper loss for Class B+ is 28dB and for Class C+ is 32dB.

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|-----------------|-----------------------|
| ← Threshold s | etting |
| OLT TX Power | |
| Lower Threshold | Upper Threshold |
| +1.0 dBm | +7.0 dBm |
| SETTING | SETTING |
| | |
| ONU RX Power | |
| Lower Threshold | Upper Threshold |
| -28.0 dBm | -12.0 dBm |
| SETTING | SETTING |
| | |

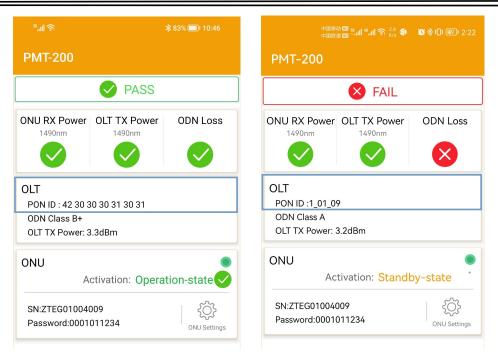
10、 "View Setting": Set the PON ID display mode: Hex or String. The below left screenshot show the Hex mode to display PON ID and the right screenshot show the String mode to display PON ID.

| ÷ | View setti | ng | |
|-------|------------|----------|--|
| PON I | D | | |
| | Hex | O String | |

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11、"Export to PDF", Click "export to PDF" to export the test report as PDF format.

| Tue Jun 07 10:47:04 GM | T+06:00 2022 PMT | 200 TEST RESULT | |
|--|---|--|--|
| | | PASS | |
| RESULTS | | | |
| OLT | | ONU | |
| PON ID DON CLASS 017 TX Proser | 41504693913091 Classe R4 7.3 | Status SN Permant | Operation state 2 Transcision 002/011134 |
| | ONU RX Power 1490nm Upper Threshold -28.0dBm | PAS -13.9d Upper Thr -12.0de | Bm eshold im |
| | Lower Threshold +1.0dBm | 3.3dBm | rethold |
| | ODN Loss +17. Upper Threshold +13.0dB | PAS 2dB Upper Thr +28.0 | eshold |
| SETTING | | | |
| SNUBL Poser Lawer Threshold SNUBL Poser Lawer Threshold SUTT Power Loart Threshold STT Power Loart Threshold STT Power Spect Threshold SNUDDL and Threshold SNUDDL and Threshold SNUTCH MESSAGE | | 25.3 d8m 11.3 d8m 2 6 d3m 7 6 d8m 2 6 u8 26 u8 | |
| Desta metal Sera metal Desta hanaste tentos Desta Solucio espon CE socia APA seraos | | 144/200 CANCO F09-03-06-099-0396/30050244 001-79/0508-071 V1.00 V1.0 V1.0 V1.0 V1.0 | |
| | EXPO | RT TO PDF | |
| | LAFU | | |
| | EXPO | | _ |



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12、"System info", click"system info" to check the PMT-200 system information.

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|-------------------------|----------------------|
| ← System Info | |
| Device model | PMT200-CMCC |
| Serial number F084 | C9-56789F084C90B02A9 |
| Device hardware version | 0013V-00008-21 |
| Device software version | V1.00 |
| CFE version | V1.0 |

APP version:V3.3.9