PMT-200 Manual

Button Function:

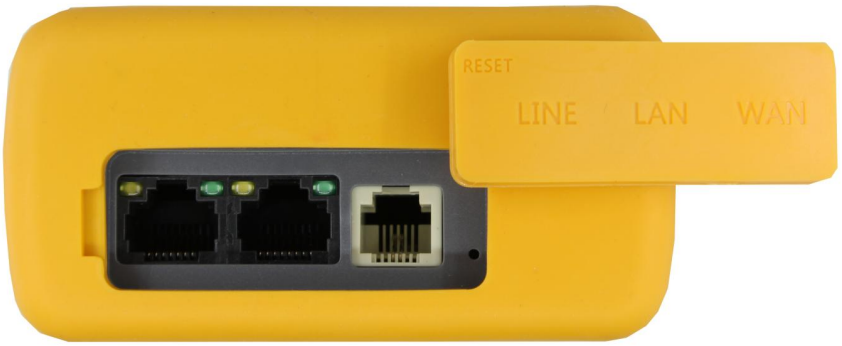
Button	Function
	Turn on/off the LED Light
	Turn on/off the VFL function, press again to change the VFL working mode
	Switch the OPM calibrated wavelength(850nm/1300nm/1310nm/1490nm/1550nm/1577nm)
	Turn on/off the built-in emulation ONU power
	Turn on/off the PMT-200 power
	The power value measured by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

Indicator description:

	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.

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).

1、Short Press 

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

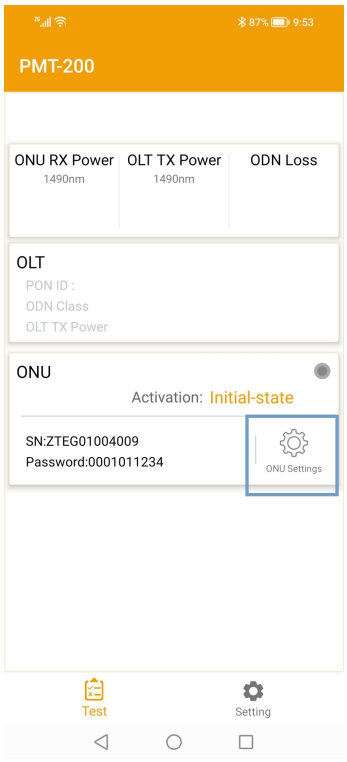
2、Short Press 

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

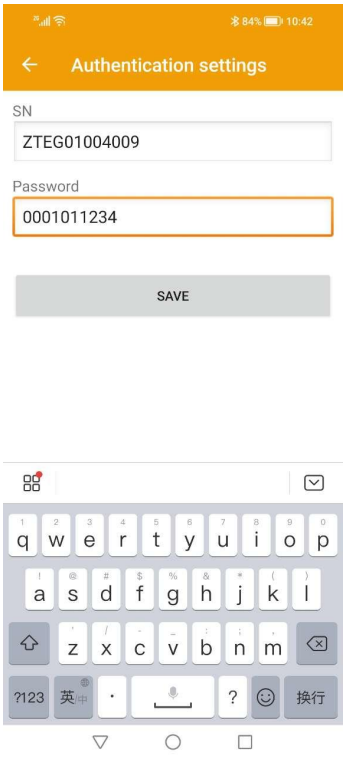
The "Power R/G/E" indicator will on.

3、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.

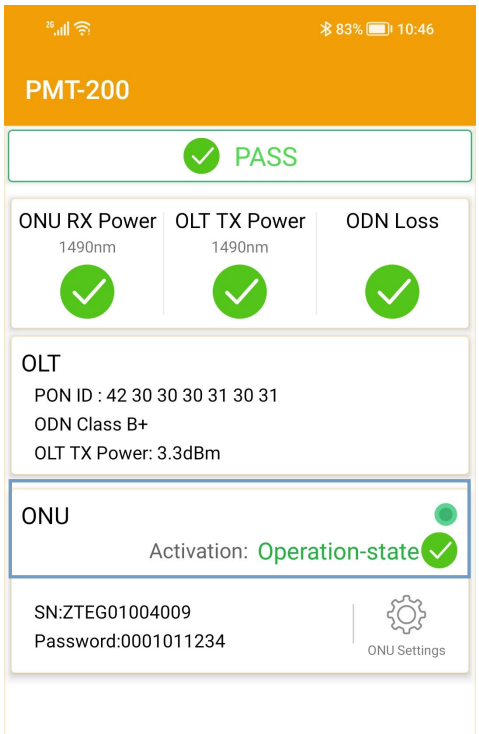


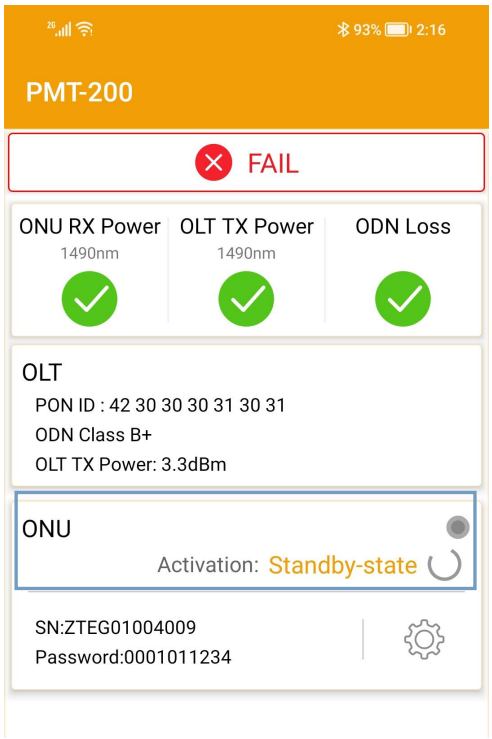
Initialization status



ONU setting interface

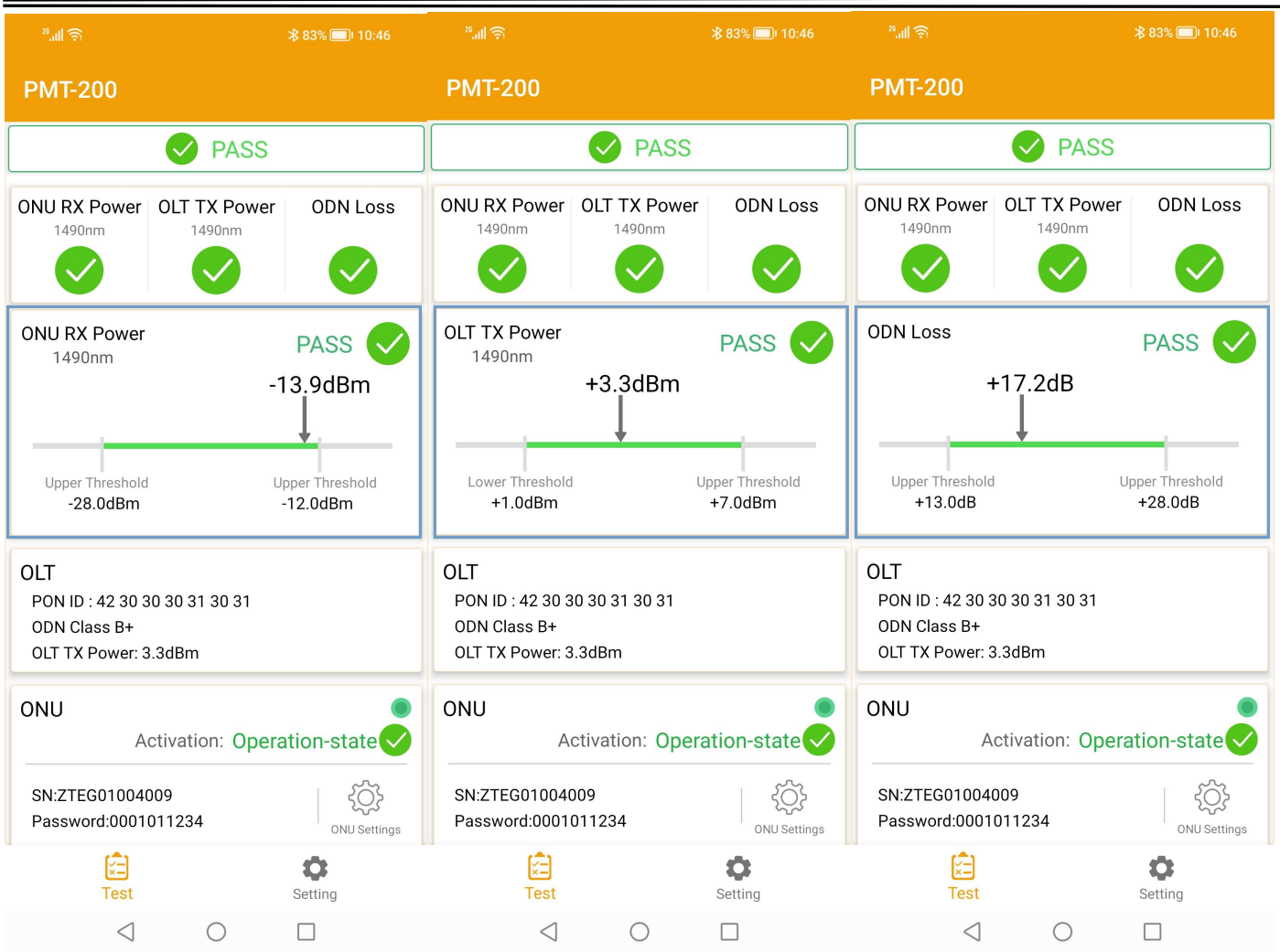
5、Insert the FTTH fiber to the ONU SC port, The built-in emulation ONU will extract the PON ID,OLT Tx power And the ODN Class in the downstream 1490nm signal. If the emulation ONU successfully registered in OLT, The activation status of the ONU will change to "**Operation-state**". Otherwise, ONU state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





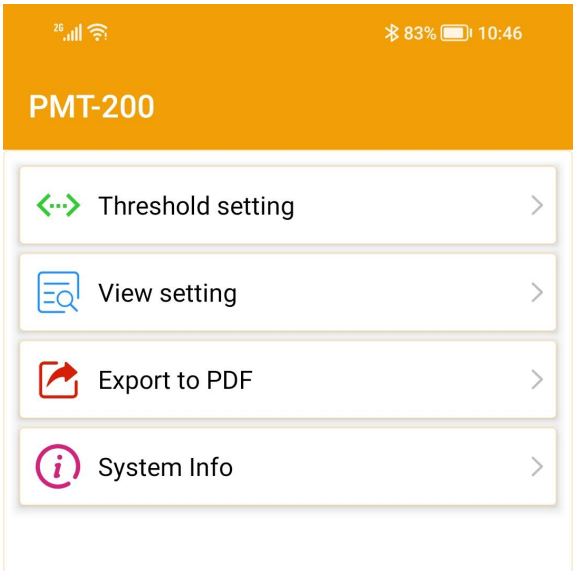
6、The PMT-200 mobile phone APP will display the comprehensive analysis results"PASS/FAIL", If the OLT Tx power, the ONU Rx power, and ODN total loss meet the setting threshold, and the activation status of the ONU is successful, PASS will be displayed; otherwise, if there is a problem with one parameter,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

7、Click the above "ONU Rx power" and "OLT Tx power" and ODN loss, the detail infromation will display.

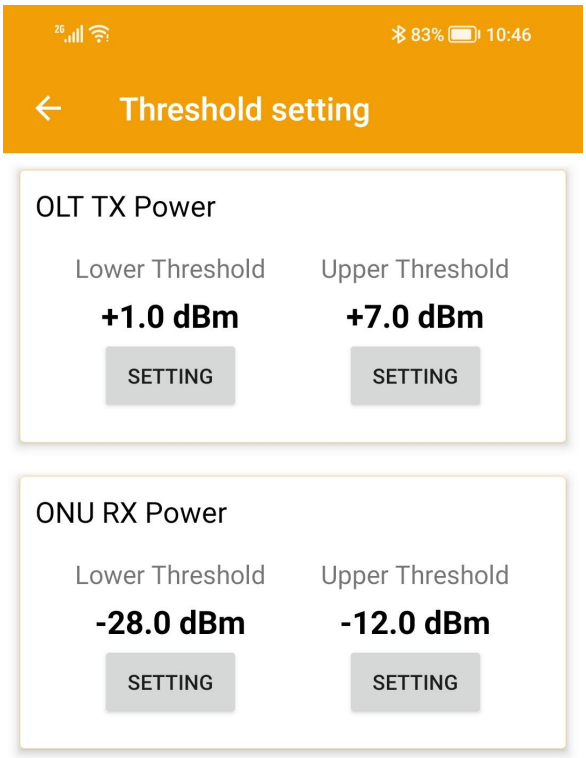


ONU Rx Power OLT Tx Power ODN Loss

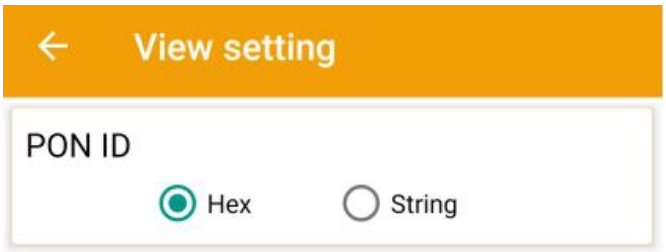
8、Click "Setting" button below to enter the system setting interface

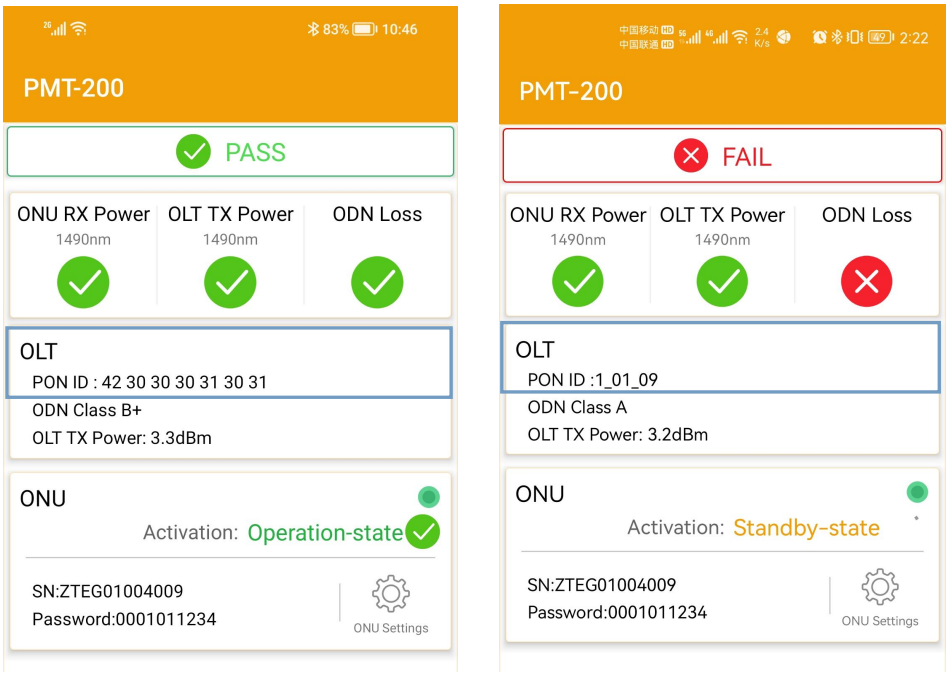


9、"Threshold": change the OLT Tx power and ONU Rx power Pass/Fail threshold, the ODN loss Pass/Fail threshold is according to the "ODN Class type". Generally speaking, ODN upper loss for Class B+ is 28dB and for Class C+ is 32dB.

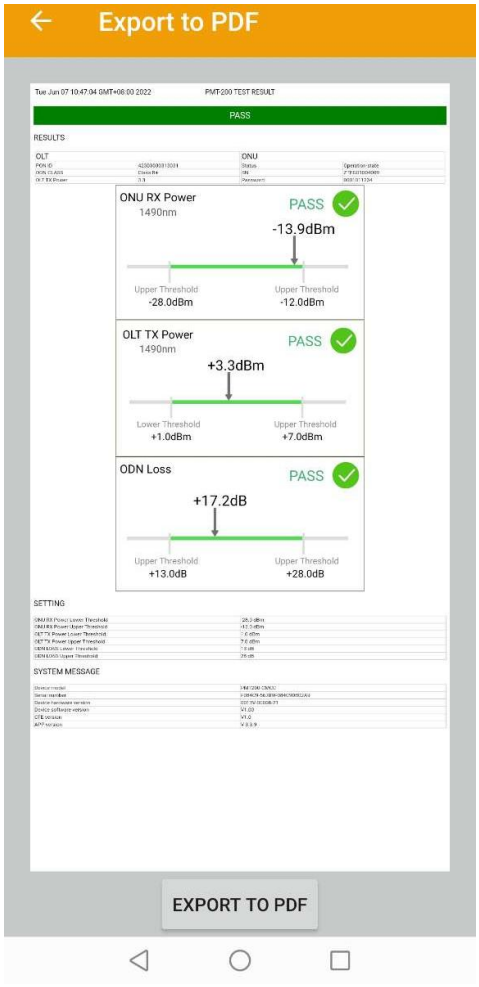


10、"View Setting": Set the PON ID display mode: Hex or String. The below left screenshot show the Hex mode to display PON ID and the right screenshot show the String mode to display PON ID.





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



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