SOLID OPTICS

SO-OSA-DWDM-48Ch

Tech Specs

1. PRODUCT INTRODUCTION

- Automatic wavelength & Power detection
- Compact size and light weight for portable
- Easy for hand operating
- Storage of large data
- Auto shut off function
- Fast response
- High-quality graphics
- CE approved

1.1 Accessories

Description	Quantity
Body	1EA
Body Rubber Case	1EA
USB Data Cable	1EA
Typical 5pin Charger	1EA
User's Manual	1EA

1.2 Optical Standards | Wavelength

Parameter	Unit	Specification
Number of Channels	-	48
Channel Spacing	GHz	100
Channel Frequencies	THz	fc 196.4 ~ 191.7 (1526.43 ~ 1563.86 nm)

1.3 Optical Standards | Optical Power

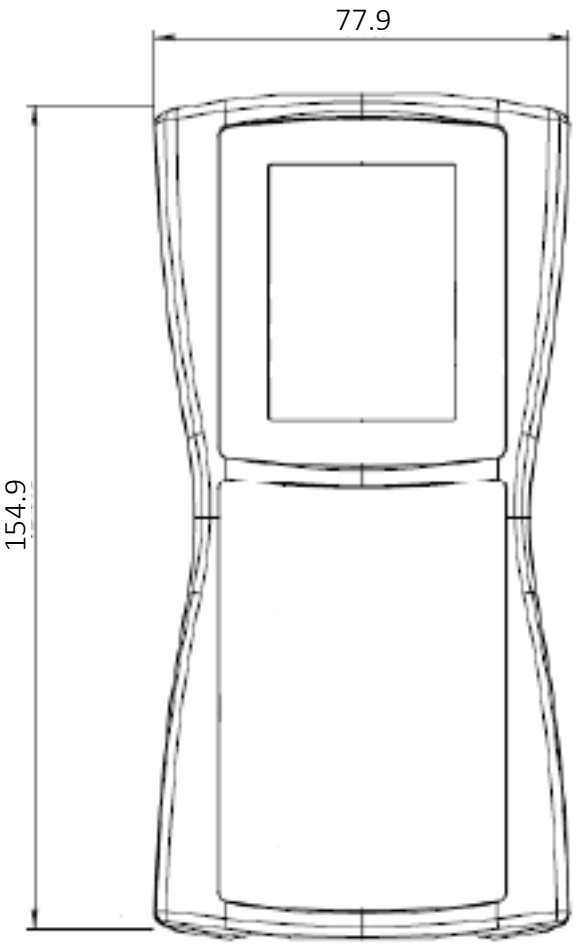
Parameter	Unit	Specification
Range of Display	dBm	+10 ~ -40
Absolute Power Accuracy	dB	±1.0@ -30
Optical Power Resolution	dB	0.01
Measuring Unit		dB / dBm

- Optical Connector

Optical connector interchangeable adapter. FC, ST, SC, LC

1.4 Specification

- Input voltage : 1800mAh 3.7v
- Current consumption : MAX 0.25A
- Electric consumption : MAX 0.925W
- Weight : 300g | Width : 77.9mm | Length : 154.9mm
- Display size : 2.8 inch
- Operating Temperature -20°C ~ +55°C
- Guaranteed time of operating : 420 mins when fully charged - Relative Humidity



1.5 About the charger

A rechargeable battery is installed inside the measuring instrument, and this charger module has the MOI (Ministry of Information) and Communication standard 5 pin charger phot. Connect the connecting point to the top of the ODPM-48 after the included cable is connected to the charger.

Standard 5pin Charger

* This Charger is subject to change

- Charging Conditions:

1.6 Safety Information

Led Color	Action of Led	Condtions for Battery Charge
Red	ON	Charging
Green	ON	Fully Charged

Be sure to read this manual, and please use your equipment. The safety of the equipment is directly affected the life and performance. Please confirm the following safety precautions. If you didn't follow the safety precautions, you may not receive free A/S.

- Do not subject its body to strong impact or immerse in water.
- Do not disassemble or remove the equipment at random.
- Before inserting the optical connector into the equipment, be clean the connector. (with Isopropyl alcohol)
- After using the equipment, Put on the Dust Cap for dust protection.
- Be careful not to go in the water equipment.
- After using the equipment, please be sure the switch off.

2. GETTING STARTED

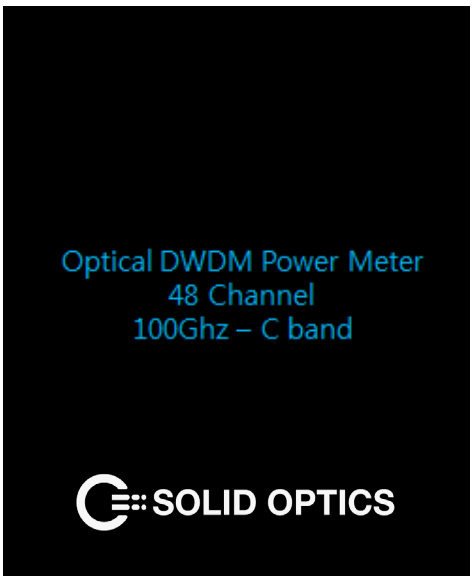
2.1 Explanation of user interface and operating buttons

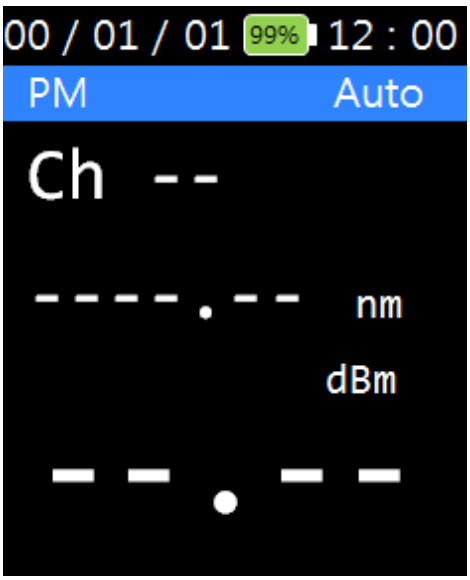
Buttons	Function
Backlight	Power ON/OFF
PM	Power Display
DWDM	Scanned dBm value of the wavelength is represented as a data.
SCAN	Wavelength is scanned and dBm value is represented.
dB/dBm	Each time you press the key, dB and dBm are repeated.
▲	Up Arrow
Graph	Scanned dBm value of the wavelength is represented as a graph.
Recall	Recall data
ENTER	Enter
Save	Data Save
ESC	Cancel
▼	Down Arrow
MENU	Set up and Data delete

2.2 Screen Information

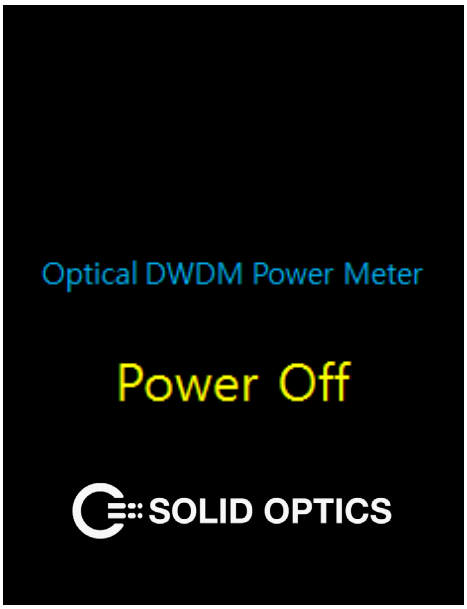
2.2.1 Power ON/OFF

- To turn on and off
- If you press the Backlight button more than 2 seconds, the logo shown below appears and it moves to 'Power Meter' page.



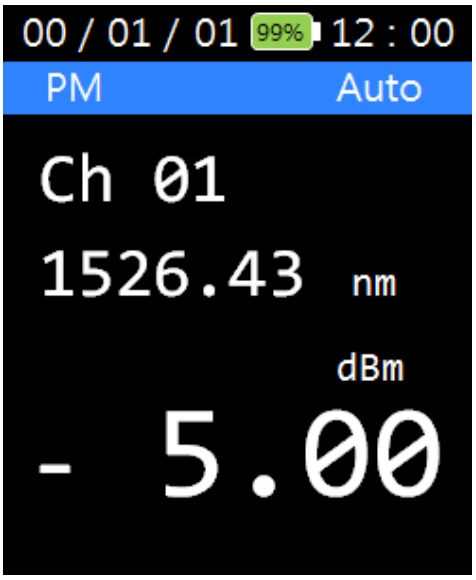


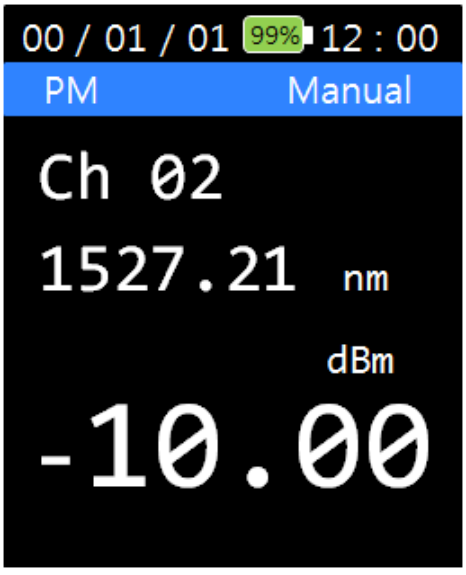
- Press the Backlight button more than 2 seconds to turn the power off.



2.2.2 Power Meter

- Power Measurement is divided into 'Auto' and 'Manual'. If you select 'Auto', the instrument automatically scans the optical input and displays the wavelength which has been detected with the highest level of power.

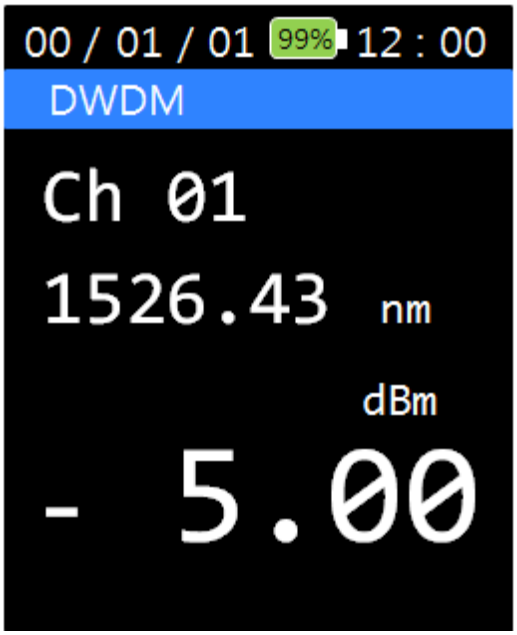




- If you select 'Manual', the power of the wavelength selected by the user is displayed in real time.
- You can select the different wavelengths using  
- Selection of Manual and Auto can be done by this button  (MENU)- 'PM Scan Mode' or Click (PM)  button.

2.2.3 DWDM

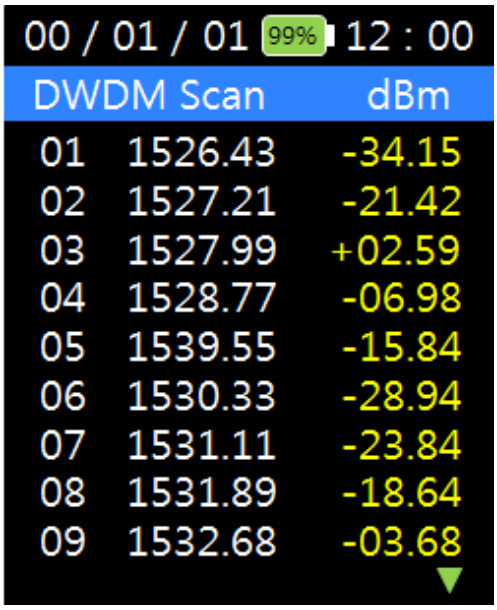
• Press the DWDM (DWDM) button, then the display will show as the figure below.

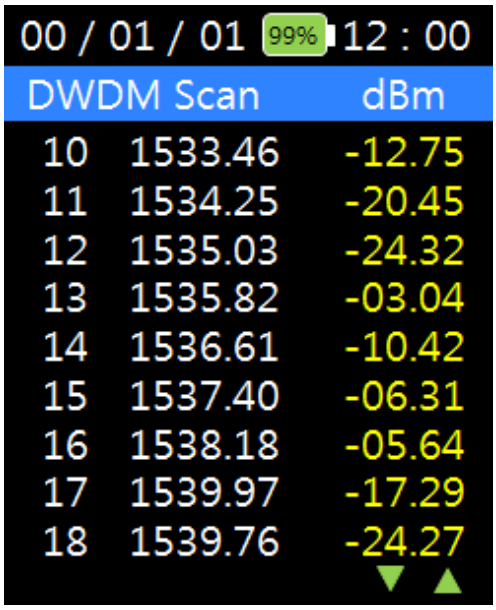


• The moment you click on the DWDM (DWDM) button, the light source is scanned only once in Manual mode.

• You can select the different wavelengths using

2.2.4 SCAN





• Press the SCAN (SCAN) button, the light source is scanned and the dBm value is displayed.

• You can select the page using

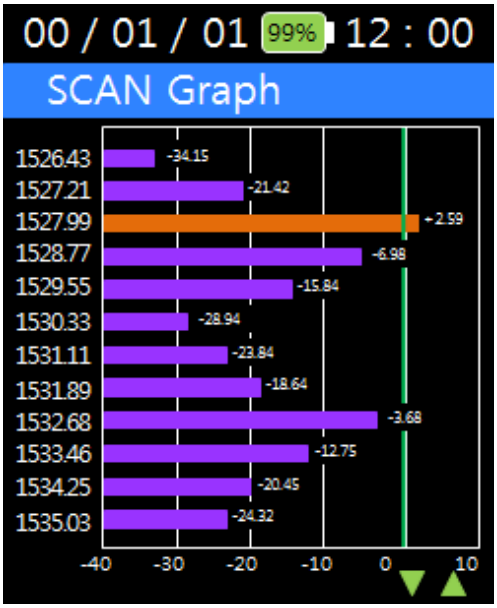
2.2.5 dB/dBm

• The light source is based the moment you press the dB/dBm (dB/dBm) button.
In other words, the light source is 0.00 dB.

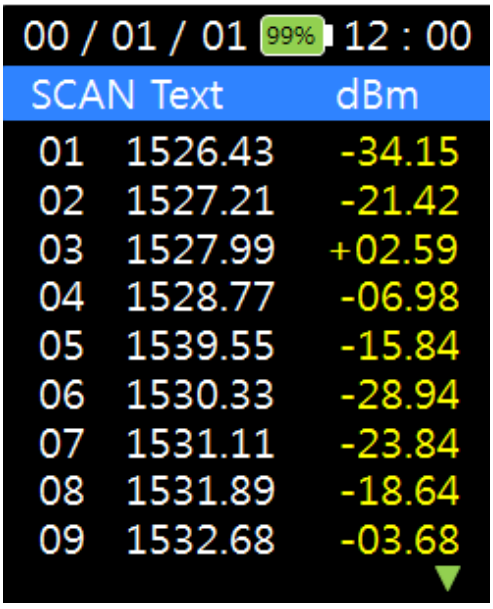
• Then it measure automatically dB of light source.
• If you want to re-select 'dBm', click dB/dBm (dB/dBm) button.

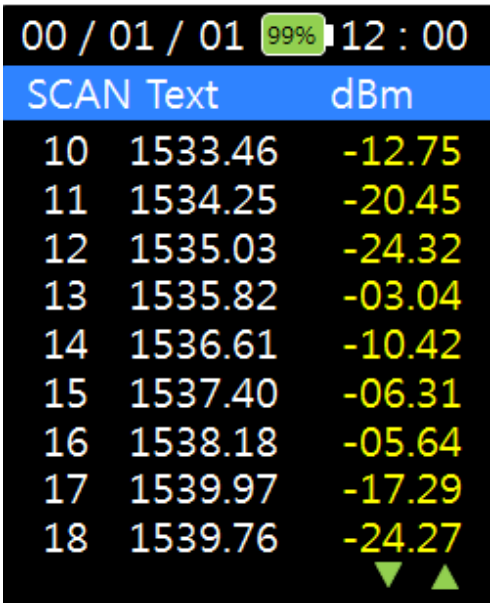
2.2.6 Graph

• If you press the Graph 6 mno (Graph) button after scanning, a graph shows like the below.



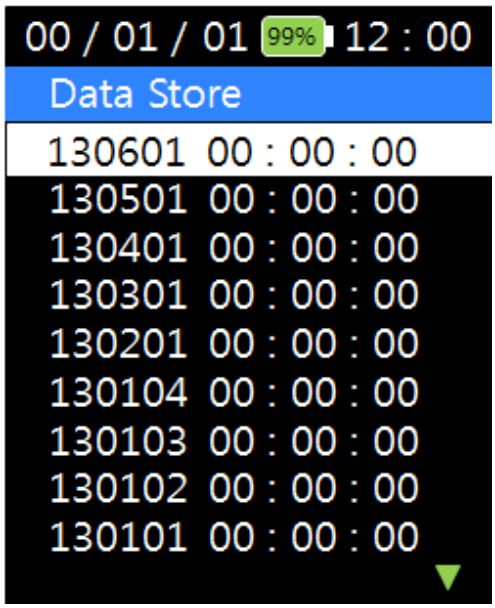
• If you press the Graph 6 mno (Graph) button again it returns to text mode.



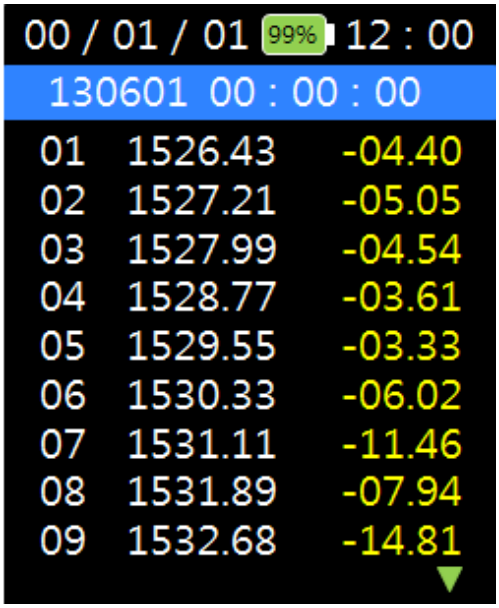


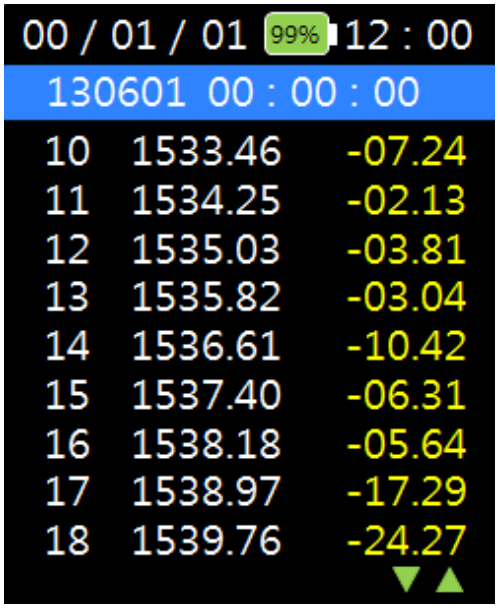
2.2.7 Recall

• Press the Recall 7 prs (Recall) button, you will recall the data which you have measured and saved.



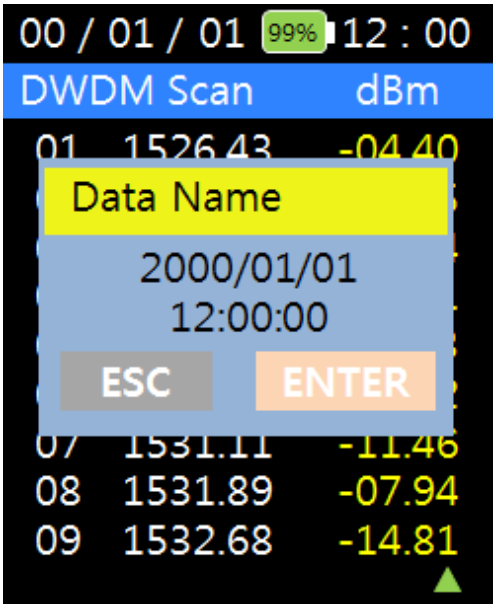
• Press the ENTER - (Enter) button to select the data you want, the screen display stored data.





2.2.8 Save

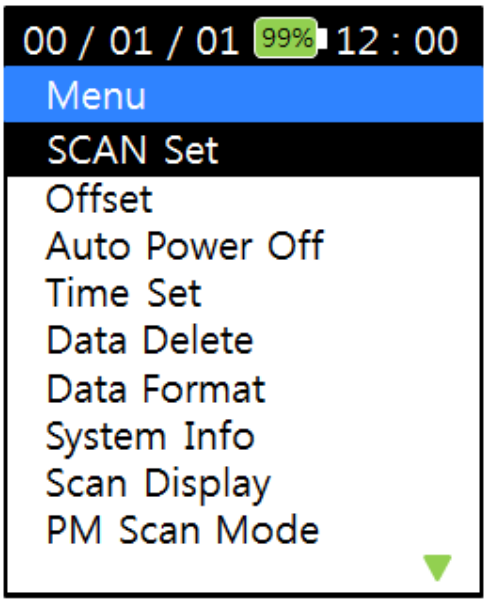
• When you press the SAVE (save) button, the following message shows and asks the name of the data, and the data based on the current data and time is saved if you press the ENTER (Enter) button.

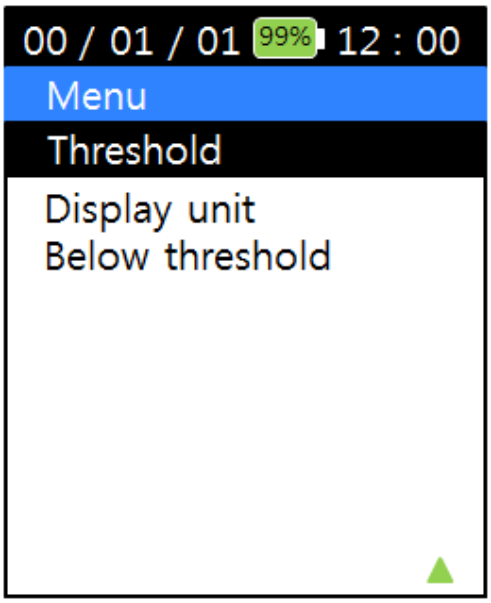


• If you want to stop saving, press ESC (ESC).

2.3 MENU

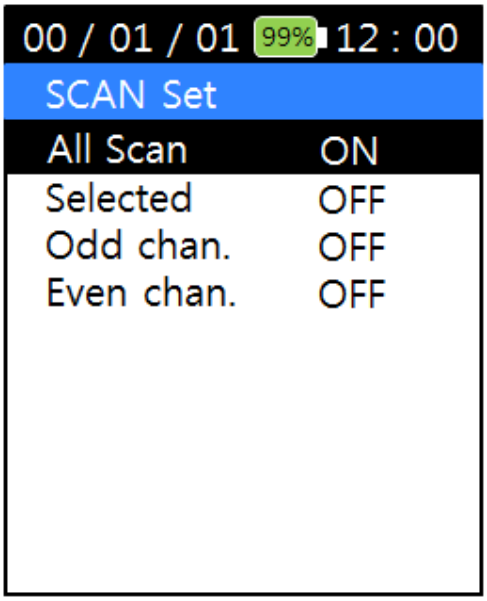
If you press the MENU (Menu) button, it changes to a screen where you can configure the operating environment of ODPM-48.



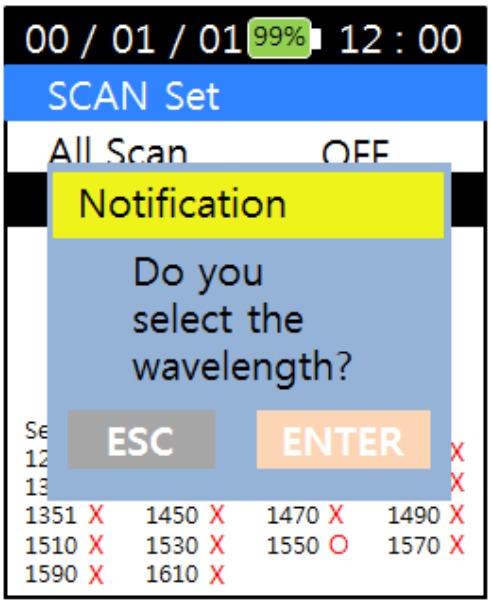


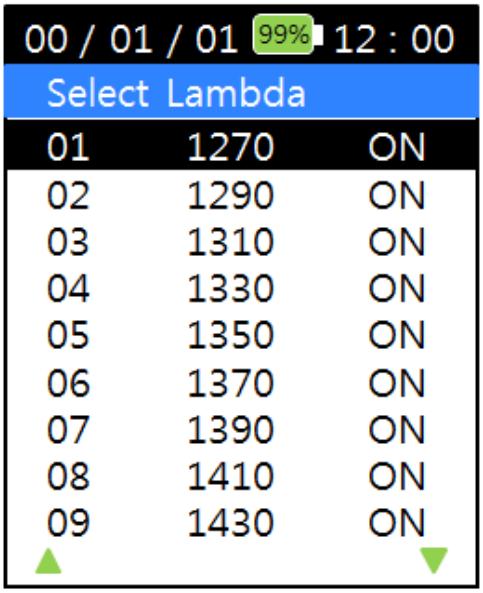
The menu consists of 'SCAN SET', 'Off Set', 'Auto Power Off', 'Time Set', 'Data Delete', 'Data Format', 'System Info', 'Scan Display', 'PM SCAN Mode', 'Threshold', 'Display unit' and 'Below threshold'.

2.3.1 Scan set



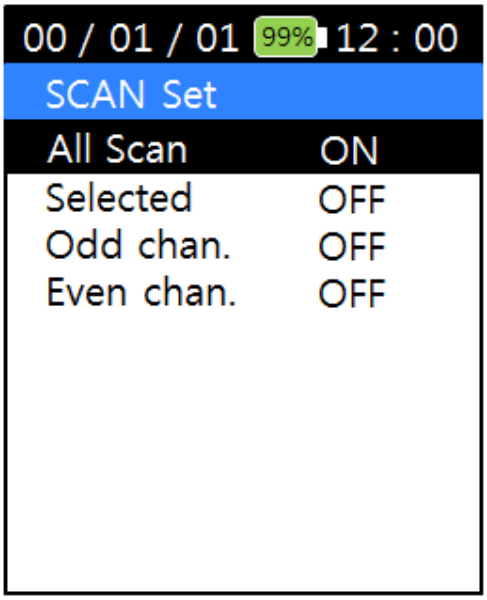
- When you choose the SCAN Set, 'All Scan', 'Selected', 'Odd chan.' and 'Even chan.' are displayed.
- 'All Scan' is registered 48 wavelength.
- 'Selected' is registered user-selected wavelength.
- If you press the 'Selected', you can see the screen below.



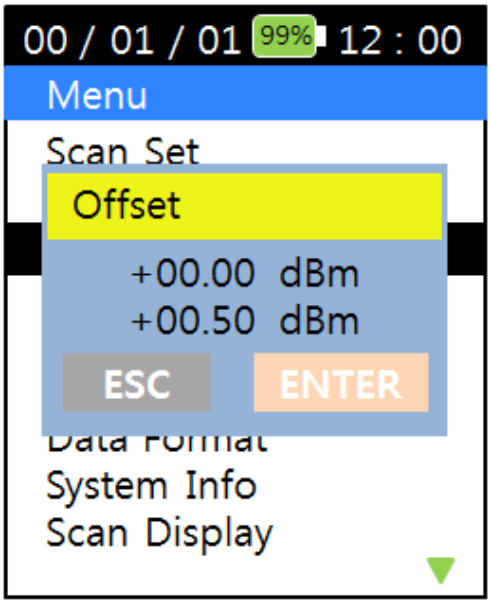


- Press the ENTER button to toggle ON or OFF the highlighted wavelength.

2.3.2 Offset



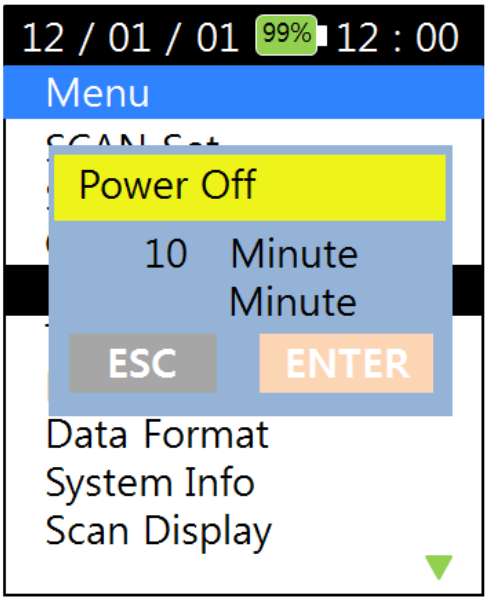
- If you press the ENTER (Enter) button after selecting 'Off Set', you can set up dBm value and the optical power value on the screen.



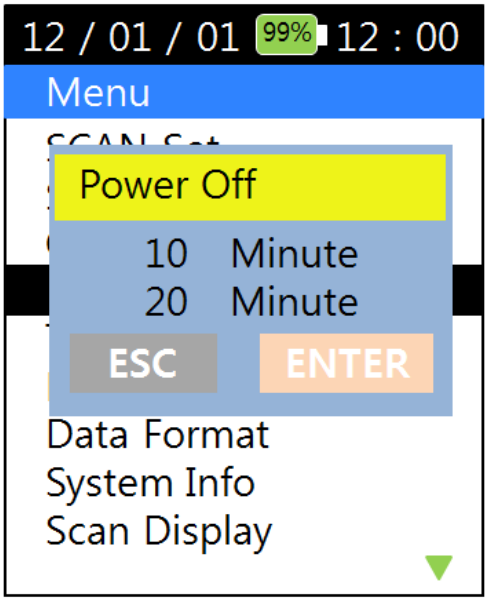
- You can set the 'Off Set' by pressing the ESC (ESC) key and ENTER (Enter).
- You can set the offset between –25.99 to +25.99 dBm.
- '+' and '–' sign can be changed to number 5 and 8 key.

2.3.3 Auto Power Off

• The power automatically goes off if the user does not input any key in the determined time.

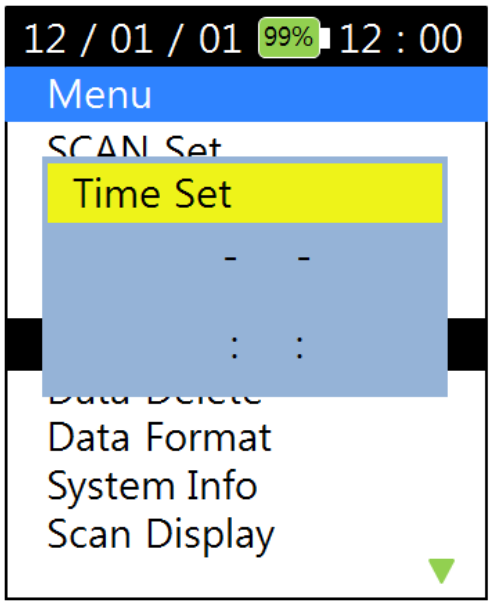


• If you press the ENTER (Enter) button after selecting 'Auto Power OFF', you can set the Auto power off time in minutes.

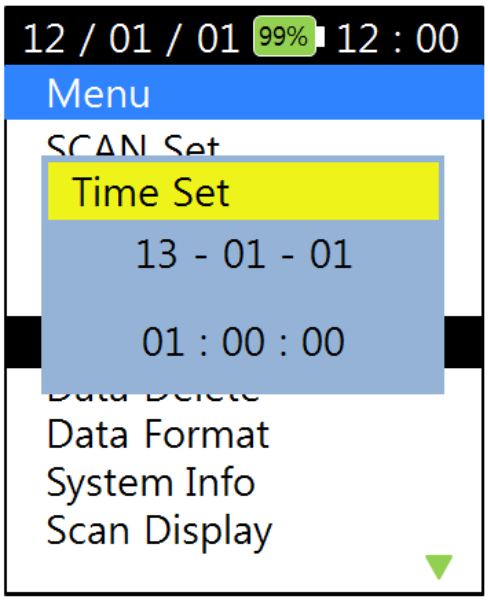


• You can set the time between 5 to 600 Min. by pressing the number key and ENTER (Enter) button.

2.3.4 Time Set

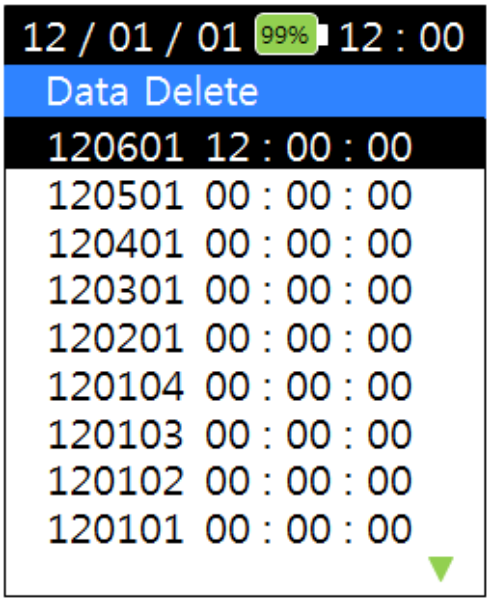


• If you press the ENTER (Enter) button after selecting 'Time Set', you can set the today date and current time.

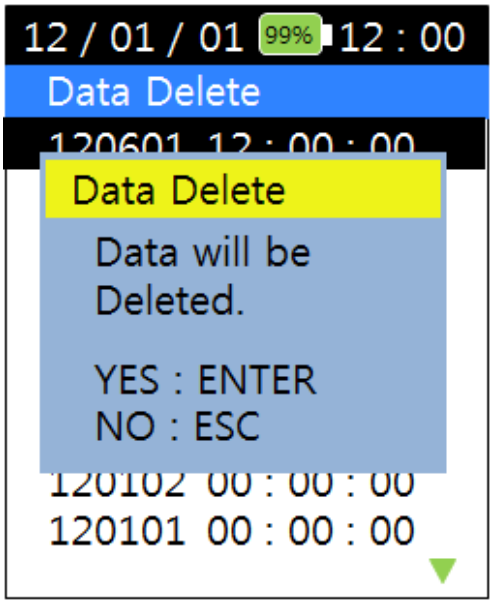


• You can set the time by pressing the number key and ENTER (Enter) button.

2.3.5 Data Delete

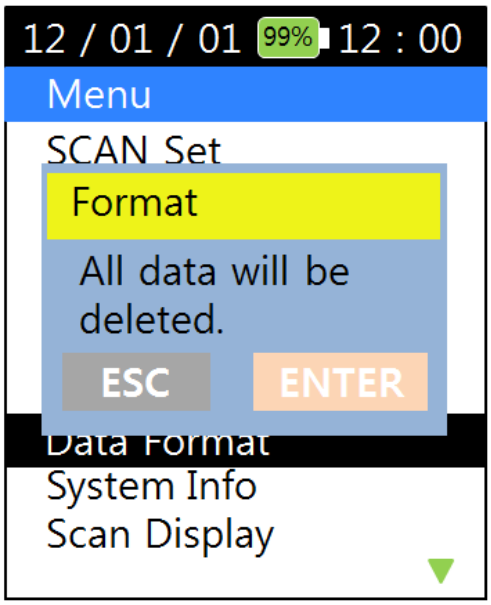


• If you press the ENTER (Enter) button after selecting 'Delete Data', you can delete the data.



• If you press the ENTER (Enter) key after choosing the data you want to delete, the message appears on the scree to confirm to delete or not.
• If you press the (Enter) button, it is deleted from the memory.

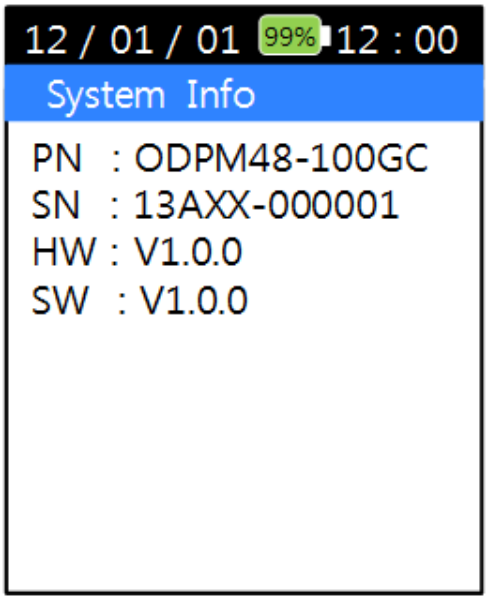
2.3.6 Data Format



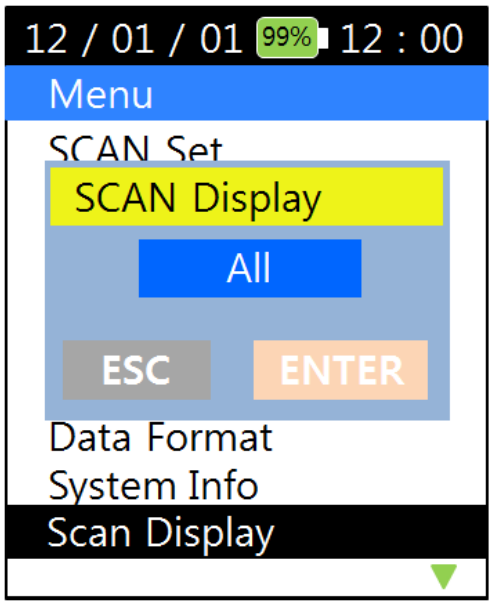
- You can delete all saved files by formatting the transportable memory.
- If you press the ENTER (Enter) key after 'Data Format', message appears on the screen to confirm.
- If you press the ENTER (Enter) button, all files are deleted from the memory.

2.3.7 System Info

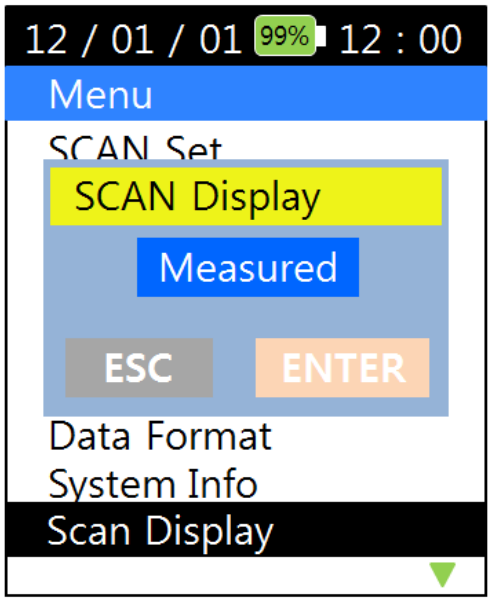
General information about the equipment. PN (Product number), SN (Serial number), HW (Hardware version), FW (Firmware version).



2.3.8 Scan Display



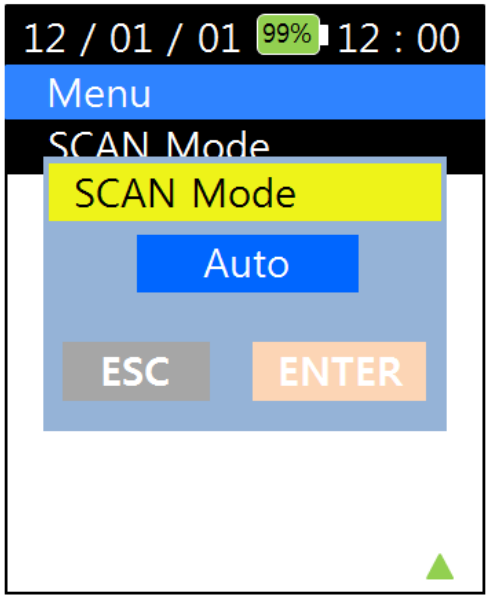
• 'Scan Display' consists of 'All' and 'Measured'. This can be selected using 5 jkl 8 tuv
• If you choose the 'All', from 1526.43nm to 1563.86nm values of 48 wavelengths are output.
• If you choose the 'Measured', the value of the wavelength to be measured are output.

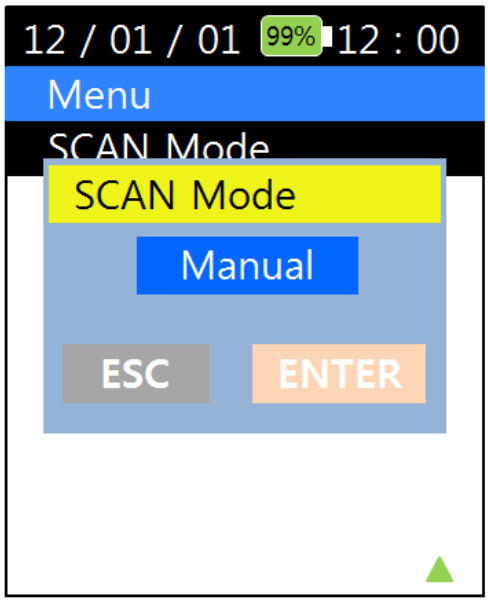


2.3.9 PM Scan Mode

• The ‘Scan Mode’ consists of the ‘Auto’ and ‘Manual’. This can be selected using 

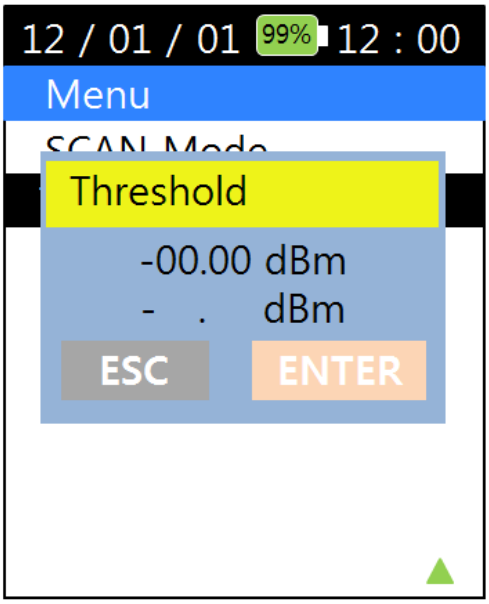
• If you choose the ‘Auto’, when selecting ‘DWDM’, shows the real time changing values.

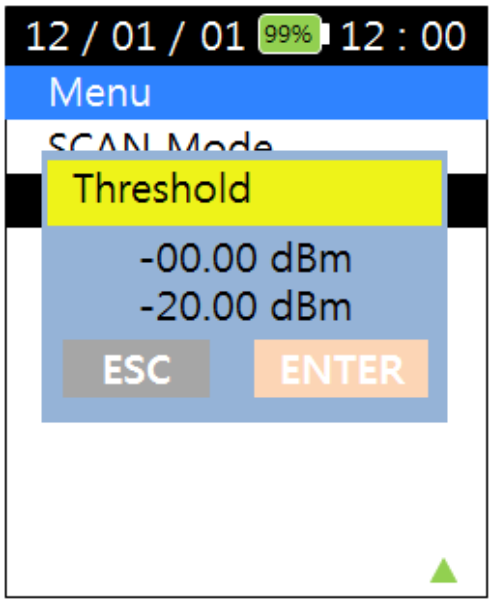




2.3.10 Threshold

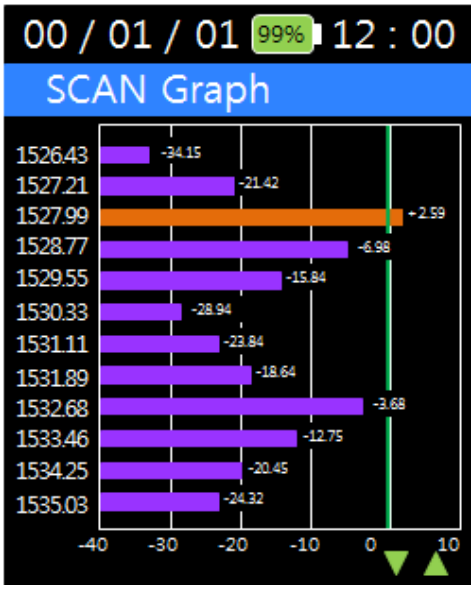
• You can change the baseline.

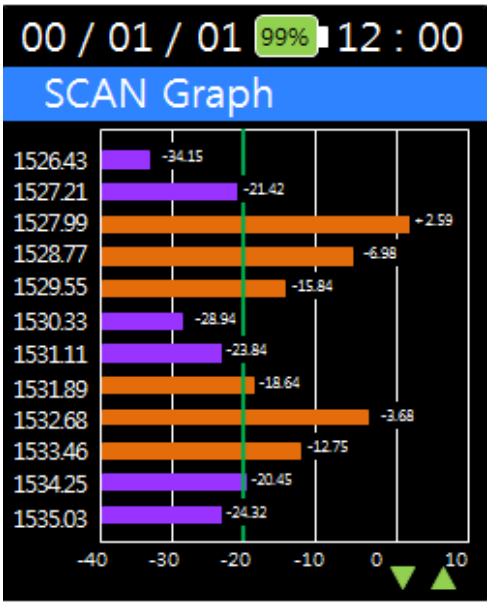




• ‘ 30.00dBm’ – is the default setting.

• If you press the ENTER (Enter) button after selecting 'Threshold', you can set the baseline.



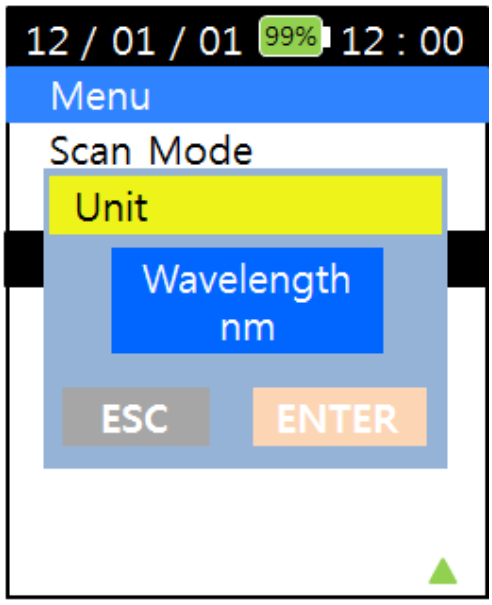


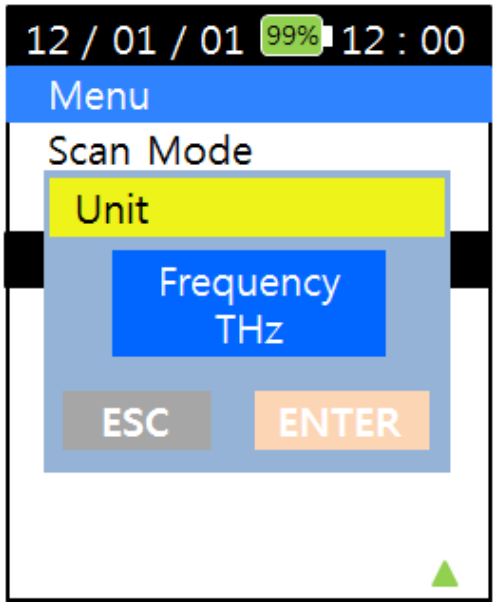
• Baseline changes can be found at the graph screen.

2.3.11 Display Unit

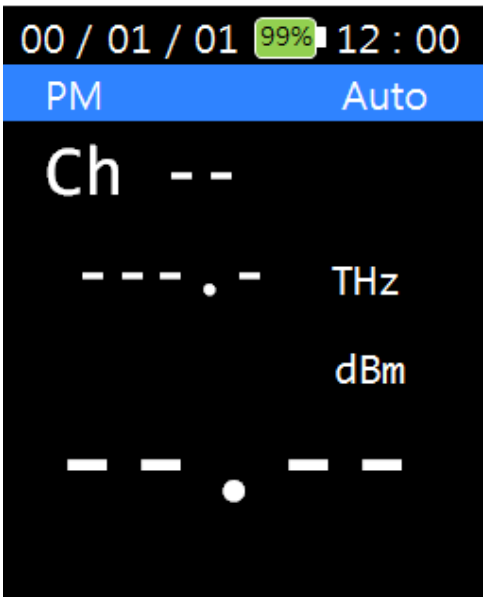
• You can change the unit.

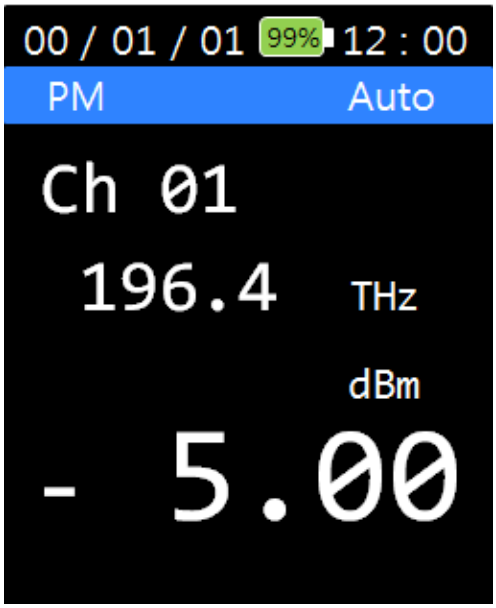
• The 'Display unit' consists of the 'Wavelength' and 'Frequency'.
This can be selected using 5 jkl 8 tuv

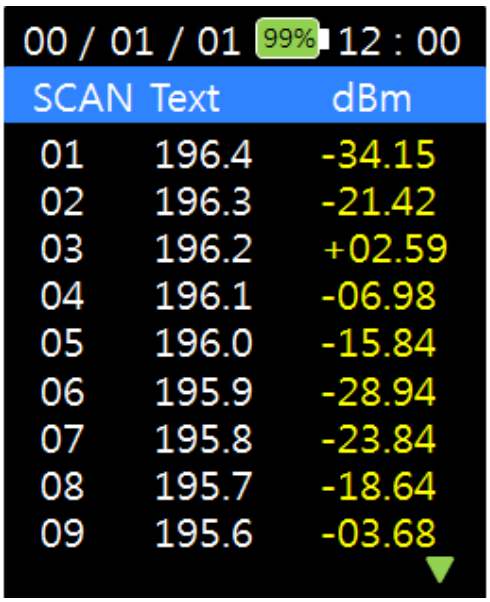


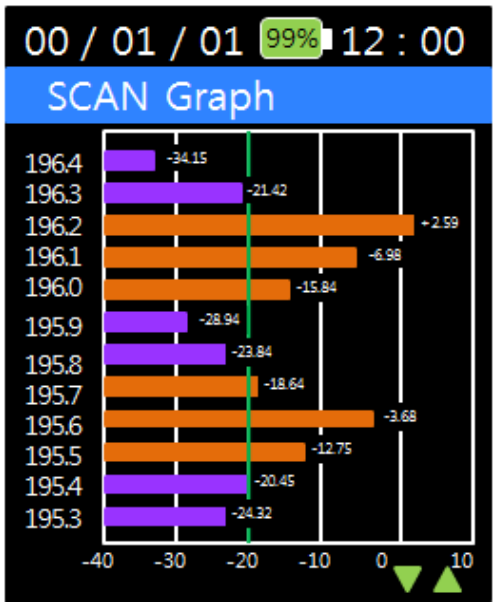


• If you choose the 'Frequency', shows the below screen.



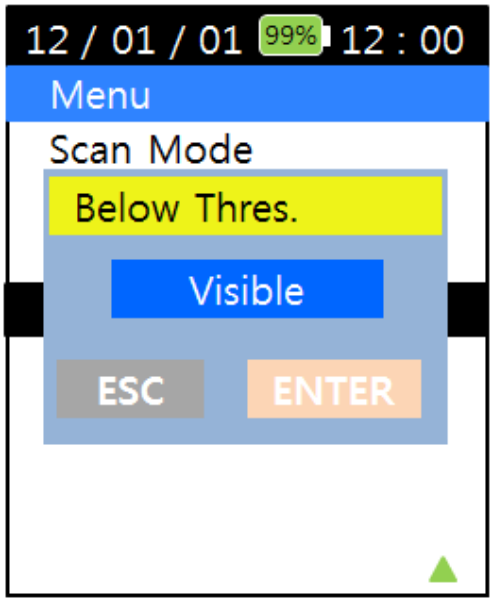


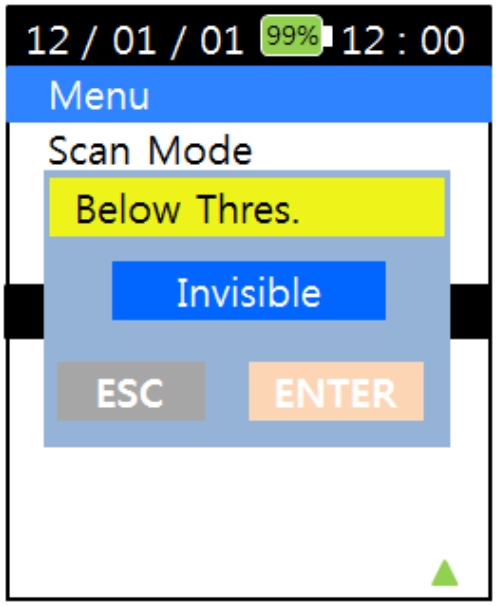


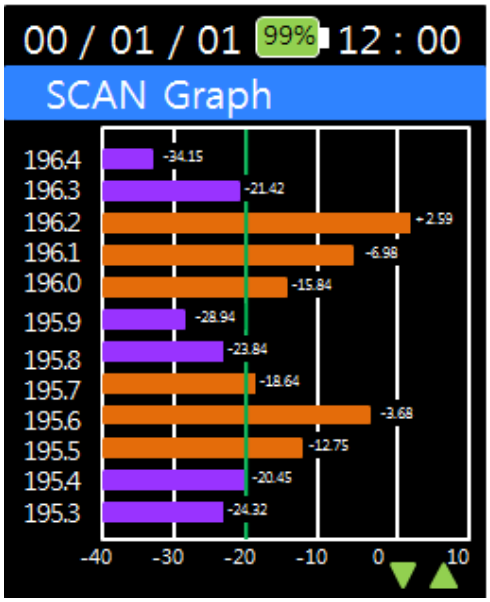


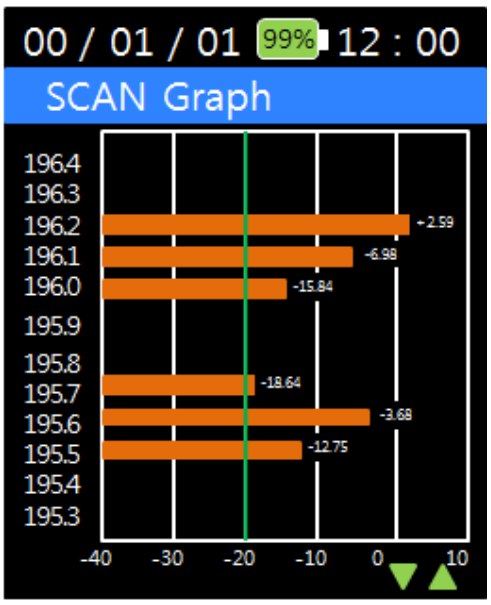
2.3.12 Below Threshold

- You can make the value of the 'Below threshold' either visible or invisible by choosing 'Visible' or ' Invisible'.









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Get in touch

EU Customer Support
+31 (0) 88 342 3776
info@solid-optics.com

US Customer Support
+1 855 678 4271
infous@solid-optics.com