OLM300
Optical Loss Meter

User Guide _ Version 1.0

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Disclaimer

Warranty

Ascentac warrants the product against defects in material and workmanship within (1) year from the date of delivery. Under normal use and service, the product will be free from physical defects in material and workmanship during the warranty period, or the product will be repaired or replaced as determined solely by Ascentac.

During the warranty period, you and Ascentac will pay the shipping costs for repairing products for one time respectively. Products returned without proof of purchase or with warranty expired will be repaired or replaced by Ascentac's decision. You shall pay the charges, including maintenance cost, shipping, insurance, duties, taxes, import fees or others which may be caused.

This warranty provides you with specific legal rights. You may have additional rights which may vary from state to state and country to country. Because of individual state and country regulations, some of the above limitations and exclusions may not apply to you.

If any of the following conditions take place, the warranty shall be null and void.
- Defects or malfunction caused by human factors, accident, improper use not conforming to product manual instructions, abuse or unauthorized alteration, modification or repair of the product.
- The label with S/N has been altered or damaged.

Notice: Ascentac makes no warranty of any kind with regard to the content in this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Service & Support

If you have any questions or need any assistance, please contact our service center.

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FAX: +886-7-398-3965
Address: 9F.-6, No. 12, Fuxing 4th Rd., Qianzhen Dist., Kaohsiung City 806611, Taiwan (R.O.C.)

Please prepare the following information before you contact us and describe the problems.

- Product model and S/N
- Warranty information

Content

1. Safety Information

Read all safety information carefully before using this product to ensure personal safety and proper use.

- Assure the power supply conforming to the specification of this product and qualified for the country of use.
- Use batteries that meet the specifications of this product.
- Do not use damaged power cords, accessories or other peripheral equipment.
- Make sure the product is operated on the permitted ambient conditions.
- Never directly look into the optical outputs interface.
- Dangerous laser radiation:

2. Introduction

Ascentac OLM300 Series, Optical Loss Meter, combines optical light source (OLS), optical power meter (OPM) and visual fault locator (VFL) in one handheld unit which can conveniently perform optical power & link loss measurement and troubleshooting of fiber-optic network. It is a perfect instrument for bi-directional testing for both multi-mode and single-mode fibers.

Ascentac OLM300 Series characterizes remote wavelength-switching and enables technicians to read remote measurement values. The fairly better feature is to analyze cable status like macro-bending or low power and notify technicians of the condition on screen.

Ascentac OLM300 Series can accommodate up to 1000 results and transfer data to PC via USB connection. It is battery-operated by either dry batteries or rechargeable batteries (4 AAA-size).

2.1 Feature

- Auto-wavelength recognition and remote wavelength-switching
- Automatically bidirectional loss test Readable remote measurement values
- Analysis of cable status e.g. Bending (Displayed on screen)
- Document results and generate reports to PC via USB connection
- Memory capacity of 1000 results
- Auto shutdown & backlight sleep mode (Programmable) (Extend the battery life)

2.2 Application

- Optical loss measurement

3. Layout

3.1 Appearance

- Front

- Side
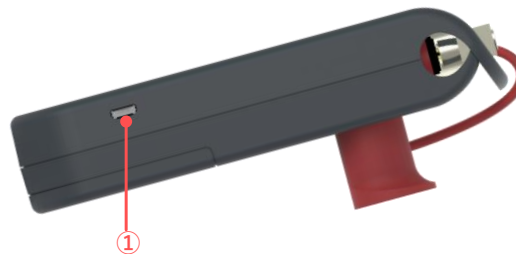
- Back
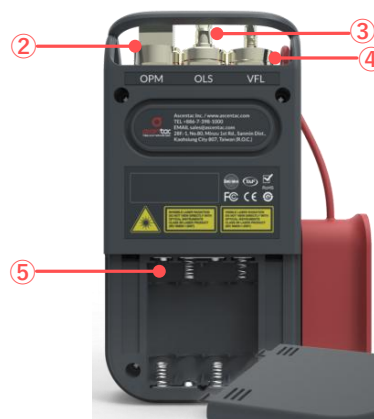
3.2 Instruction

Button	Function	Description
Power on/off	Power on/off	Long press for two seconds to turn on/off the meter.
Sourceλ LASER	Wavelength selection	Short press to switch wavelength of optical light source.
Sourceλ LASER	Laser on/off	Long press for two seconds to turn on/off the laser.
CW Zero	Modulation output (OLS mode)	Short press to switch modulation output.
CW Zero	Calibration and zeroing (OLM mode)	Long press for two seconds to do calibration and zeroing.
MIN/MAX MEAS	Record min. or max. value of optical power	Short press to record min. or max. value of optical power.
MIN/MAX MEAS	Optical power monitoring	Long press for two seconds to turn on/off this function.
MODE REF	Mode switching	Short press to switch mode. OLM-M → OLM-S → OPM → OLS → OLM-M
MODE REF	REF setting (OPM mode)	Long press for two seconds to set reference value.
dBm mW	Measurement unit selection	Short press to switch measurement unit or cancel reference value.
LOAD SAVE	Data loading	Short press to load measurement results.
LOAD SAVE	Data saving	Long press for two seconds to save measurement results.
Powerλ	Wavelength selection	Short press to switch wavelength.
Setting	Setting	Short press to access device setting.

Item	Function	Description
1	USB	1. Power supply 2. Charge rechargeable batteries 3. Transfer measured record to PC
2	OPM optical connector	SC, FC, LC, Universal 2.5mm or 1.25mm
3	OLS optical connector	Universal 2.5mm
4	VFL optical connector	Universal 2.5mm
5	Battery	Dry batteries or rechargeable batteries (Charged by USB connection): AAA-size x 4

3.3 LED Indicator

Item	LED Indicator	LED Status	Description
1	PASS/FAIL	Off	Without setting any threshold
		Red	Measured value is lower than the threshold.
		Green	Measured value is higher than or equal to the threshold.
2	LASER	Off	No emitting light
		Red	Emitting light

4. Display

4.1 Optical Loss Meter (OLM)

Wavelength

Measured value

Alarm indicator

1310nm

1310nm	(F) : --.-- dB
1310nm	(R) : --.-- dB
1550nm	(F) : --.-- dB
1550nm	(R) : --.-- dB

Bending

OLM-M

Battery status

Function mode
(OLM-M or OLM-S)

4.2 Optical Power Meter (OPM)

Wavelength

REF value

Detected modulation output
(CW, 270Hz, 1kHz, 2kHz)

Measured value

Alarm indicator

1310nm

1kHz

REF
-20.00 dBm

- 15.00 dBm

Low Power

Max-Min
0.5dB

OPM

Battery status

Function mode
(OPM)

Optical power
monitoring
(Max/Min/Max-Min)

4.3 Optical Light Source (OLS)

Wavelength — 1310nm

Modulation output (CW, 270Hz, 1kHz, 2kHz) — 1kHz

Laser status

Battery status

Function mode (OLS) — OLS

4.4 Visual Fault Locator (VFL) (Option)

VFL

Modulation output (CW, 1Hz, 2Hz) — 1Hz

Laser status

Battery status

Function mode (OLS) — OLS
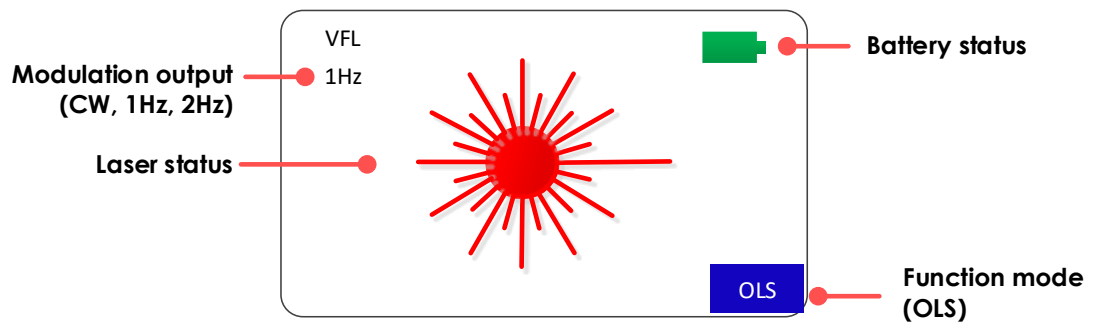
5. Operation

5.1 Power-on

Press [⏻] key for two seconds to turn on the meter.
Startup screen → Enter into optical loss measurement interface.
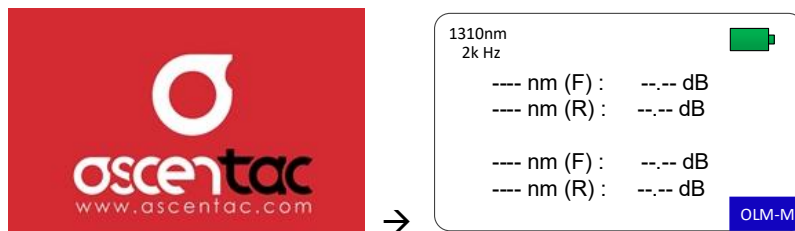
Note
"--.-- dBm" is displayed when there is no input of optical light source.

5.2 Power-off

Press [⏻] key for two seconds to turn off the meter.

5.3 Switching Function Modes

Short press [$\frac{MODE}{REF}$] key to switch function modes.
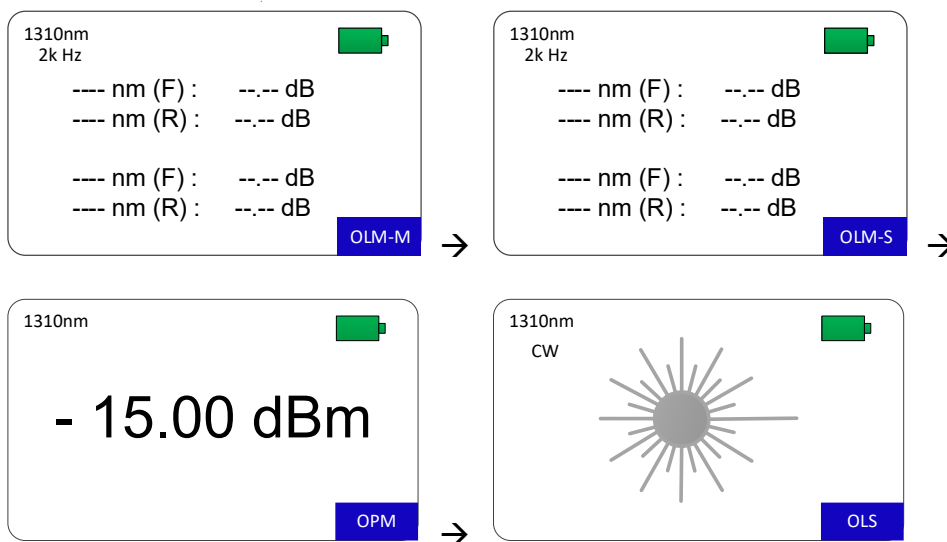
Note

1. Function mode: OLM-M → OLM-S → OPM → OLS → OLM-M

2. [$\frac{Source\lambda}{LASER}$] & [CW] key are not available in OPM mode.

3. [$\frac{dBm}{mW}$], [$\frac{LOAD}{SAVE}$], [$\frac{MIN/MAX}{MEAS}$] & [Powerλ] key are not available in OLS mode.

4. Light source will be turned off first if short pressing [⚙] key in OLS or OLM mode.

5. Light source will be turned off when the function mode is switched.

5.4 Laser-on

1. Short press [$\frac{\textbf{MODE}}{\textbf{REF}}$] key to switch to OLS mode.
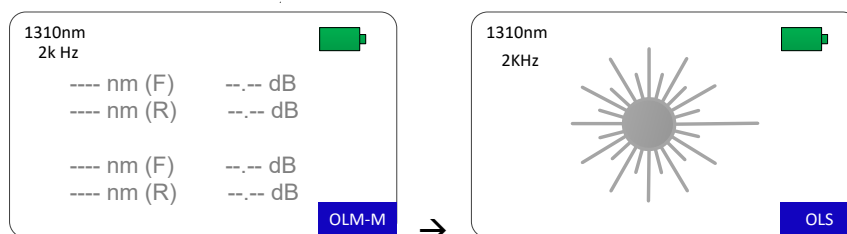
2. Long press [$\frac{\textbf{Source}\lambda}{\textbf{LASER}}$] key for two seconds to turn on laser.
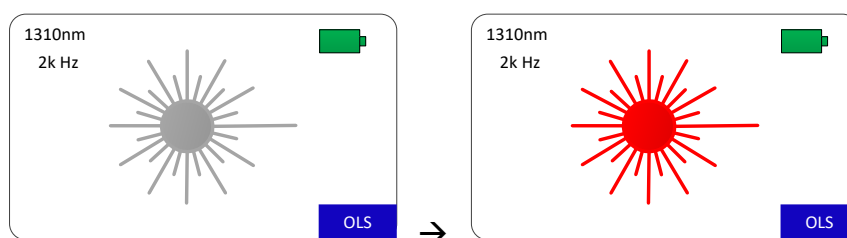
Note
" ☀ " refers to emitting light.

5.5 Laser-off

Long press [$\frac{\textbf{Source}\lambda}{\textbf{LASER}}$] key for two seconds to turn off laser.
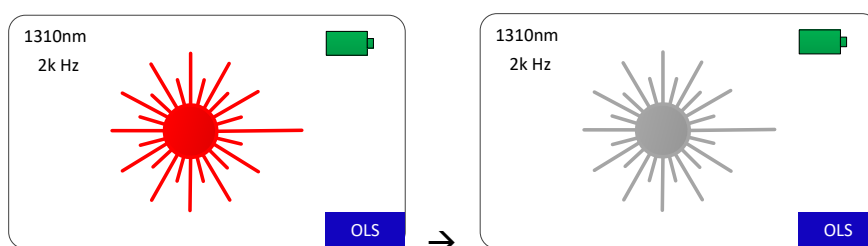
Note
" ☀ " refers to no emitting light.

5.6 Setting Wavelength of Optical Light Source

Short press [$\frac{Source\,\lambda}{LASER}$] key to switch wavelength.
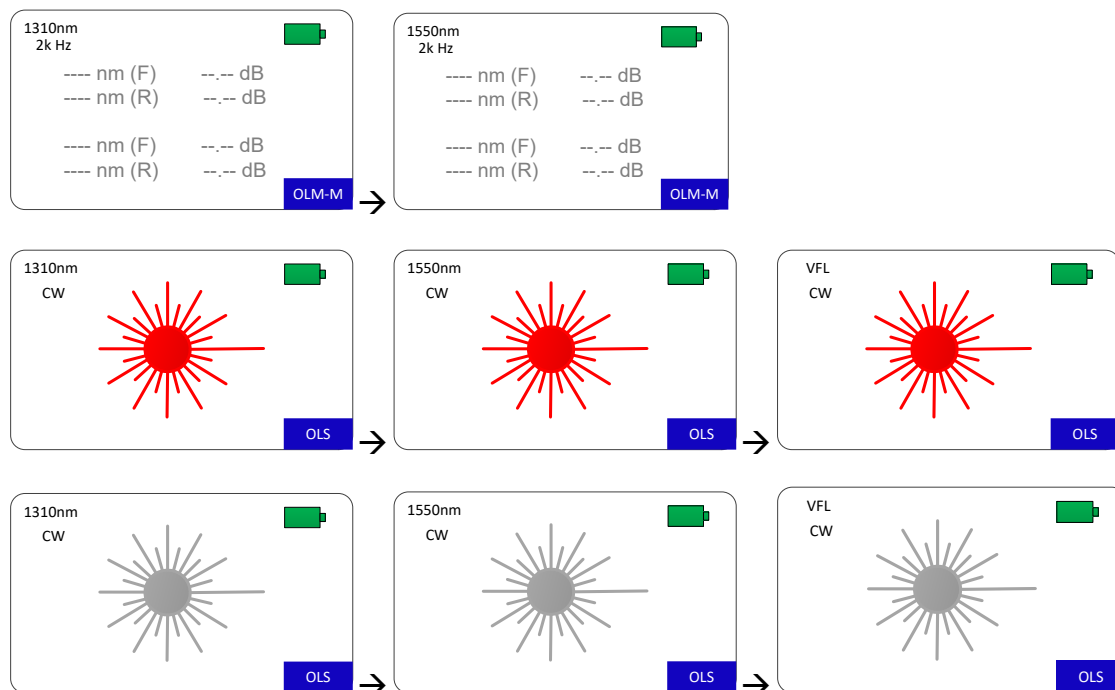
Note

1. Wavelength can also be switched by short pressing [$\frac{Source\,\lambda}{LASER}$] key when laser is off.

2. [$\frac{Source\,\lambda}{LASER}$] key is not available in OPM mode.

3. VFL can't be turned on in OLM mode.

5.7 Setting Modulation Output of Optical Light Source

Short press [$\frac{CW}{Zero}$] key repeatedly until the desired modulation output is displayed in OLS mode.
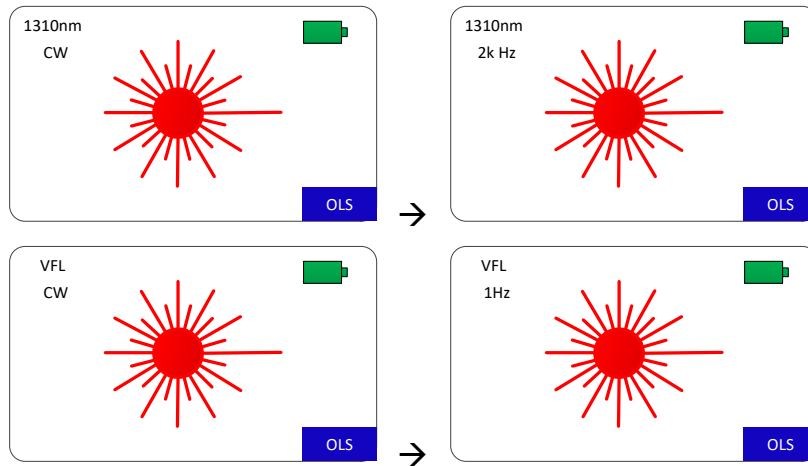
Note

1. Modulation output can't be switched by short pressing [$\frac{CW}{Zero}$] key when the function mode is not OLS mode.
2. Modulation output:
   - 650nm: CW → 1Hz → 2Hz → CW
   - Other wavelengths: CW → 270Hz → 1kHz → 2kHz → CW

5.8 Calibration and Zeroing

Prepare a short patch cord before performing optical loss measurement. Connect one end of the patch cord to the optical connector of OPM and the other end to the optical connector of OLS. Long press [$\frac{CW}{Zero}$] key for two seconds to do calibration and zeroing.

1310nm	
2KHz	
1310nm (F)	--.-- dB
1310nm (R)	--.-- dB
1550nm (F)	--.-- dB
1550nm (R)	--.-- dB
	OLM-M

→

	Zero
1310nm	1310nm ok
1310nm (F)	00.00 dB
1310nm (R)	00.00 dB
1550nm (F)	--.-- dB
1550nm (R)	--.-- dB
	OLM-M

→

	Zero
1310nm	1550nm ok
1310nm (F)	--.-- dB
1310nm (R)	--.-- dB
1550nm (F)	00.00 dB
1550nm (R)	00.00 dB
	OLM-M

→

1310nm	
2KHz	
1310nm (F)	--.-- dB
1310nm (R)	--.-- dB
1550nm (F)	--.-- dB
1550nm (R)	--.-- dB
	OLM-M
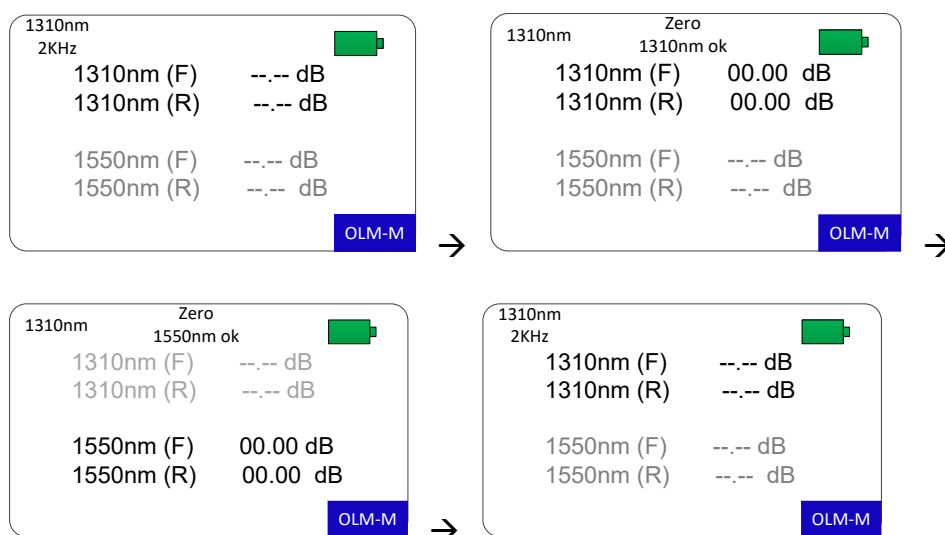
Note

The modulation output of optical light source is 2kHz in OLM mode.

5.9 Setting Wavelength of Optical Power Meter

1. Short press [$\frac{MODE}{REF}$] key to switch to OPM mode.

```
┌─────────────────────────────┐
│ 1310nm              ▇▇▇▌     │
│                             │
│    - 15.00 dBm              │
│                             │
│                    ┌─────┐  │
│                    │ OPM │  │
└────────────────────┴─────┴──┘
```
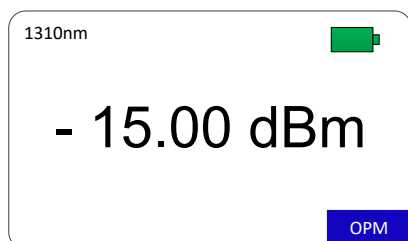
2. Short press [Power λ] key repeatedly until the desired wavelength is displayed.

```
┌─────────────────────────────┐
│ 1550nm              ▇▇▇▌     │
│                             │
│    - 15.00 dBm              │
│                             │
│                    ┌─────┐  │
│                    │ OPM │  │
└────────────────────┴─────┴──┘
```
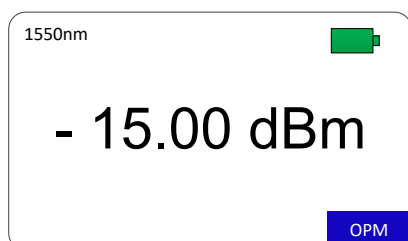
Note
1. Wavelength can't be selected in OLS mode.
2. [CW] key is not available in OPM mode.

3. The wavelength can be automatically recognized if the modulation output of optical light source is 2kHz from Ascentac OLS200 or OLM300 series.

```
┌─────────────────────────────┐
│ 1550nm*             ▇▇▇▌     │
│   2k Hz                     │
│    - 15.00 dBm              │
│                             │
│                    ┌─────┐  │
│                    │ OPM │  │
└────────────────────┴─────┴──┘
```
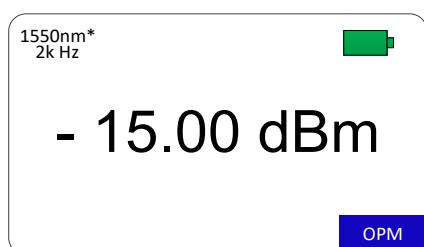
Note
"*" behind the wavelength refers to automatic wavelength recognition.

5.10 Setting Reference Value (Default: OFF)

1. Short press [MODE/REF] key to switch to OPM mode.

```
1550nm                    🔋

    - 15.00 dBm

                      OPM
```
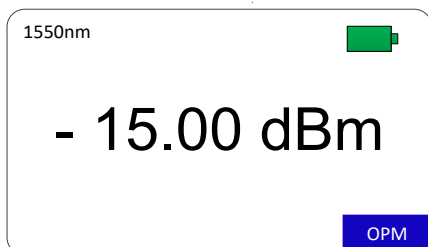
2. Long press [MODE/REF] key for two seconds to set the reference value.

```
1550nm          REF        🔋
              -15.00 dBm

     0.00 dB

                      OPM
```
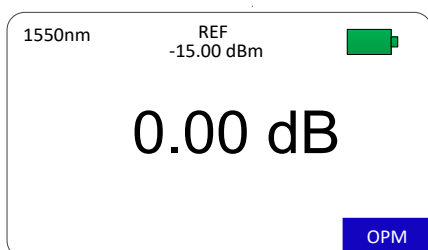
Note
The measurement unit will be dB after setting the reference value.

5.11 Cancelling Reference Value

Short press [dBm/mW] key to cancel the reference value.

```
1550nm        REF         🔋
            -15.00 dBm

    0.00 dB

                    OPM
```
→
```
1550nm                    🔋

    - 15.00 dBm

                    OPM
```
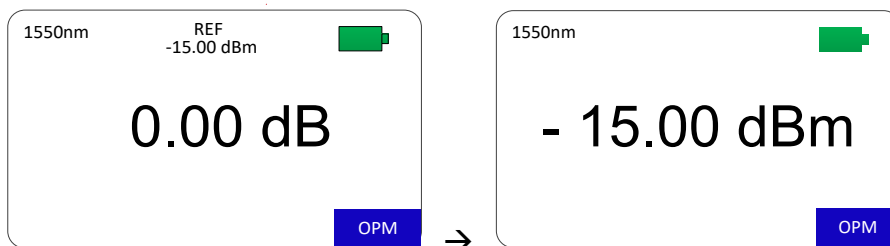
5.12 Setting Measurement Units (Default: dBm)

1. Short press [**MODE / REF**] key to switch to OPM mode.

```
1550nm                      ▇

       - 15.00 dBm

                          OPM
```
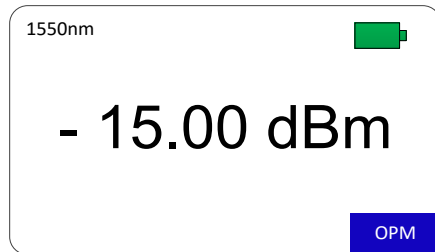
2. Short press [**dBm / mW**] key to switch measurement units.

```
1550nm              ▇              1550nm                  ▇

   - 15.00 dBm                        31.62uW

                 OPM      →                          OPM
```
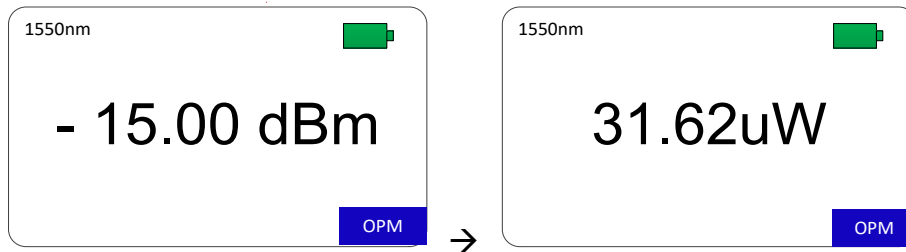
5.13 Optical Power Monitoring (Default: OFF)

1. On the display of optical power measurement, press [**MIN/MAX** / **MEAS**] key for two seconds to access optical power monitoring.

1310nm	
- 15.00 dBm	
	OPM

→

1310nm	
- 15.00 dBm	
Max-Min 0.5dB	OPM
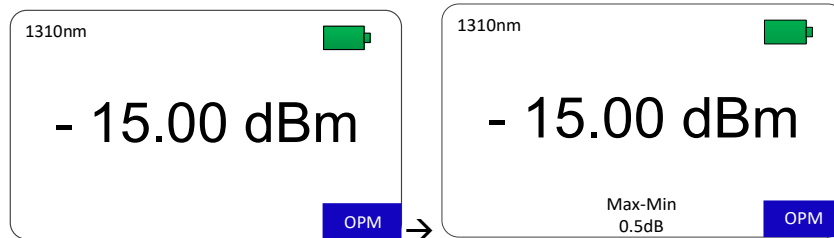
2. Short press [**MIN/MAX** / **MEAS**] key to switch monitoring mode.
   - Monitoring mode: Max → Min → Max-Min → Max
   - Definition of monitoring mode:
     - Max: Record the maximum value of optical power.
     - Min: Record the minimum value of optical power.
     - Max-Min: Record the difference of the above value.

3. Long Press [**MIN/MAX** / **MEAS**] key for two seconds to turn off monitoring mode.

1310nm	
- 15.00 dBm	
Max-Min 0.5dB	OPM

→

1310nm	
- 15.00 dBm	
	OPM
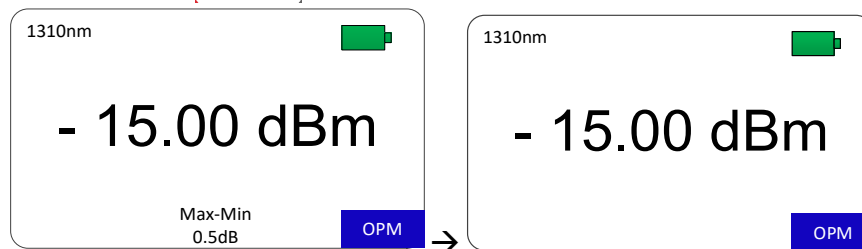
5.14 Saving Measurement Result

1. On the display of optical loss measurement (OLM-M mode), long press [LOAD / SAVE] key for two seconds to save measurement result. Press [↑] [↓] to select "Yes" and press [↵] to confirm it.

```
Date : 2019/07/19
Time : 08:53:40


Save  to  No.   0003
       > No <
         Yes
```
→
```
 Date : 2019/07/19
 Time : 08:53:40


 Save  to  No.   0003
            No
         > Yes <
```
→

```
[  3 / 1000 ]                    OLM
2019 / 07 / 19  08 : 55 : 51

    Status : ----
    1310nm(F)  Loss : -15.00 dB
    1310nm(R)  Loss : -15.00 dB
    1550nm(F)  Loss : -15.00 dB
    1550nm(R)  Loss : -15.00 dB
      Bending Thr. : OFF
            Loss Thr: OFF
```
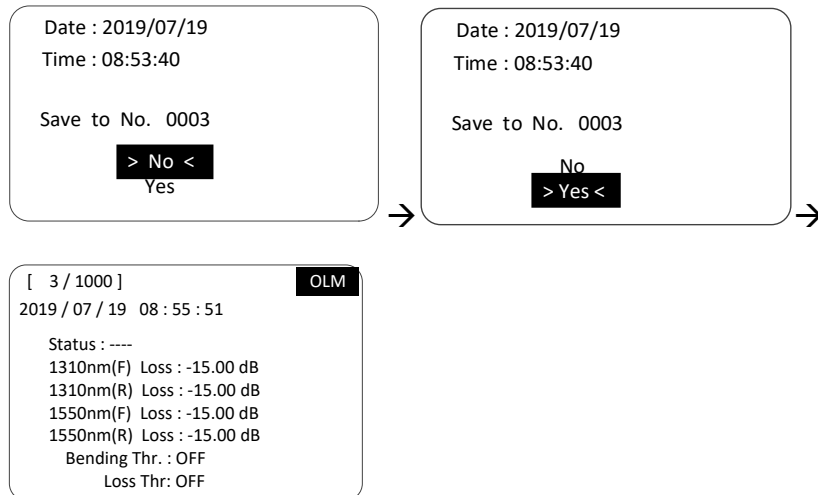
Note

- Date: Refer to the saving date.
- Time: Refer to the saving time.
- Save to No.: Refer to data saving number.
- Status:
  - ----
    Without setting Bedning Thr. & Loss Thr.
  - **PASS**
    Value measured with long wavelength and the value measured with short wavelength ≤ Bending Thr.
    Value measured with long wavelength and the value measured with short wavelength ≤ Loss Thr.
  - **Bending**
    Value measured with long wavelength minus value measured with short wavelength > Bending Thr.
  - **Loss**
    Value measured with long wavelength **or** the value measured with short wavelength > Loss Thr.
- **Loss** will be displayed when the alarm of Bending and Loss occur at the same time.

2. On the display of optical power measurement, long press [$\frac{\text{LOAD}}{\text{SAVE}}$] key for two seconds to save measurement result. Press [↑] [↓] to select "Yes" and press [↵] to confirm it.

```
Date : 2019/07/19
Time : 08:53:40


Save to No.  0003
        > No <
         Yes
```
→
```
Date : 2019/07/19
Time : 08:53:40


Save to No.  0003
         No
       > Yes <
```
→

```
[  3 / 1000 ]                OPM
2019 / 03 / 19  08 : 55 : 51
  Status :   PASS
        Wavelength: 1550nm
             Power: -15.00 dBm
               REF: -10.00 dBm
              Loss: -5.00 dB
          Max-Min:1.7 dB
  Low Power Thr: -30 dBm
          Loss Thr: OFF
```

Note

- Date: Refer to the saving date.
- Time: Refer to the saving time.
- Save to No.: Refer to data saving number.
- Status:
  - ----
    Without setting Low Power Thr. & Loss Thr..
  - **PASS**
    Measured value of optical power ≥ Low Power Thr.
    Measured value of loss ≤ Loss Thr
  - **Low Power**
    Measured value of optical power < Threshold of low power
  - **Loss**
    Measured value of loss > Loss Thr.
- REF: Reference value can be saved if there is a reference value. However, the status of REF will be "OFF" if users don't set reference value.
- Loss: If there is a reference value, loss value will be saved. If there is no reference value, the status of Loss will be "--.--".

- MEAS: Without monitoring mode, the status of MEAS will be "OFF". With monitoring mode, the value will be displayed. (e.g., MAX-MIN: 1.7dB)

3. Press [↵] to save measurement result and return to the display of optical power measurement; press [ESC] to discard saving and return to the display of optical power measurement.
   Note
   Measurement result can't be saved in OLS mode.

5.15 Loading Measurement Result

4. On the display of optical power measurement, short press [LOAD / SAVE] key to load measurement result.

```
[  3 / 1000 ]                        OLM
2019 / 07 / 19   08 : 55 : 51
     Status : ----
     1310nm(F)  Loss : -15.00 dB
     1310nm(R)  Loss : -15.00 dB
     1550nm(F)  Loss : -15.00 dB
     1550nm(R)  Loss : -15.00 dB
        Bending Thr. : OFF
           Loss Thr: OFF
```

```
[  3 / 1000 ]                        OPM
2019 / 03 / 19   08 : 55 : 51
Status :   PASS
       Wavelength: 1550nm
           Power: -15.00 dBm
             REF: -10.00 dBm
            Loss: -5.00 dB
       Max-Min: 1.7 dB
   Low Power Thr: -30 dBm
        Loss Thr: OFF
```

Note

- Date: Refer to the saving date.
- Time: Refer to the saving time.
- Save to No.: Refer to data saving number.
- Status:
  - ----
    Without setting Low Power Thr. & Loss Thr.
  - PASS
    Measured value of optical power ≥ Low Power Thr.
    Measured value of loss ≤ Loss Thr.
  - Low Power
    Measured value of optical power < Threshold of low power
  - Loss
    Measured value of loss > Loss Thr.
- REF: Reference value can be saved if there is a reference value. However, the status of REF will be "OFF" if users don't set reference value.
- Loss: If there is a reference value, loss value will be saved. If there is no reference value, the status of Loss will be "--.--".
- MEAS: Without monitoring mode, the status of MEAS will be "OFF". With monitoring mode, the value will be displayed. (e.g., MAX-MIN: 1.7dB)

5. Press [↑] [↓] to select the data.

```
┌─────────────────────────────┐ OPM
│ [  3 / 1000 ]               │
│ 2019 / 03 / 19  08 : 55 : 51│
│ Status :  PASS              │
│      Wavelength: 1550nm     │
│           Power: -15.00 dBm │
│             REF: -10.00 dBm │
│            Loss: -5.00 dB   │
│        Max-Min: 1.7 dB      │
│  Low Power Thr: -30 dBm     │
│        Loss Thr: OFF        │
└─────────────────────────────┘
```
→
```
┌─────────────────────────────┐ OPM
│ [  9 / 1000 ]               │
│ 2019 / 03 / 19  10 : 55 : 51│
│ Status :  PASS              │
│      Wavelength: 1550nm     │
│           Power: -15.00 dBm │
│             REF: -10.00 dBm │
│            Loss: -5.00 dB   │
│        Max-Min: 1.7 dB      │
│  Low Power Thr: -30 dBm     │
│        Loss Thr: OFF        │
└─────────────────────────────┘
```
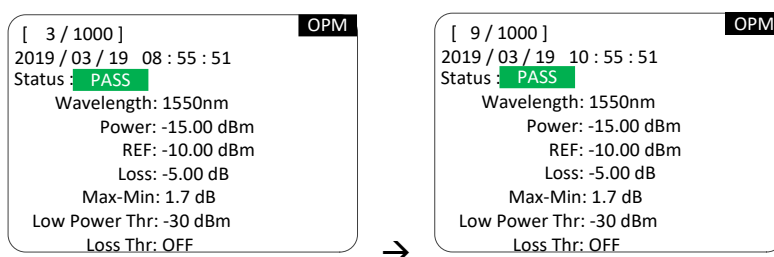
6. Press [ESC] to return to the display of optical power measurement.
Note
On the display of loading measurement result, only [↑] [↓] [ESC] are available.

5.16 Device Setting

Short press [⚙] key to access setting as below image.

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	5 min
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	-30 dBm
Loss Thr.	5 dB
Bending Thr.	3 dB

5.16.1 Date

1. Press [↑] [↓] to move to "Date" and press [↵] to access year setting.
2. Press [↑] [↓] to select year and press [↵] to access month setting; press [ESC] to discard change and return to the original display.
3. Press [↑] [↓] to select month and press [↵] to access date setting; press [ESC] to discard change and return to access year setting.
4. Press [↑] [↓] to select date and press [↵] to confirm it; press [ESC] to discard change and return to access month setting.

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	**2019** / 07 / 19
Time	17 : 55 : 00
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / **18**
Time	17 : 55 05
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	ON
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 18
Time	17 : 55 : 05
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

5.16.2 Time

1. Press [↑] [↓] to move to "Time" and press [↵] to access hour setting.
2. Press [↑] [↓] to select hour and press [↵] to access minute setting; press [ESC] to discard the change and return to the original display.
3. Press [↑] [↓] to select minute and press [↵] to access second setting; press [ESC] to discard the change and return to access hour setting.
4. Press [↑] [↓] to select second and press [↵] to confirm it; press [ESC] to discard change and return to access minute setting. (10 secs/unit)

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 18
Time	17 : 55 05
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	ON
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 18
Time	17 : 55 : 05
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

5.16.3　Power Saving (Default: 10 mins)

1. Press [↑] [↓] to move to "Power Saving" and press [↵] to set time.
2. Press [↑] [↓] to select time (OFF or 10 to 120 mins) (10 mins/interval) and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	OFF
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	**OFF**
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	**10 min**
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

5.16.4   Screen Saving (Default: 5 mins)

1. Press [↑] [↓] to move to "Screen Saving" and press [↵] to access time interval setting.
2. Press [↑] [↓] to select time interval (OFF or 5 to 30 mins) (5 mins/interval) and press [↵] to confirm it; press [ESC] to discard change and return to the original display.

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	OFF
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	**OFF**
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	**20 min**
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

5.16.5 Brightness (Default: Mid)

1. Press [↑] [↓] to move to "Brightness" and press [↵] to access setting.
2. Press [↑] [↓] to select the brightness (High, Mid or Low) and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	Mid
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	**Mid**
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	**High**
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	High
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

5.16.6 Battery Charge (Default: OFF)

1. Press [↑] [↓] to move to "Battery Charge" and press [↵] to access turning on/off battery charge.
2. Press [↑] [↓] to select turning on/off battery charge and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.

Date 2019 / 07 / 19 Time 17 : 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High **Battery Charge** **OFF** Low Power Thr. OFF Loss Thr. OFF Bending Thr. OFF	Date 2019 / 07 / 19 Time 17 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge **OFF** Low Power Thr. OFF Loss Thr. OFF Bending Thr. OFF
Date 2019 / 07 / 19 Time 17 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge **ON** Low Power Thr. OFF Loss Thr. OFF Bending Thr. OFF	Date 2019 / 07 / 19 Time 17 : 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High **Battery Charge** ON Low Power Thr. OFF Loss Thr. OFF Bending Thr. OFF

Note

Users are required to confirm whether to turn on battery charge again after the device detects USB connection.

Use Rechargeable Battery ?

> **No , Don't Charge**
  Yes , Start Carging
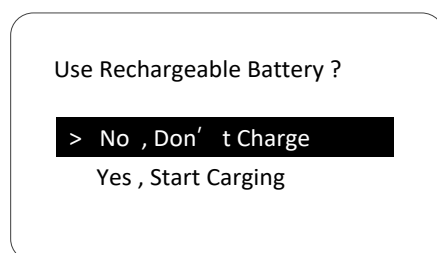
5.16.7 Low Power Thr. (Default: -30dBm)

1. Press [↑] [↓] to move to "Low Power Thr." and press [↵] to access setting.
2. Press [↑] [↓] to select the low power threshold (OFF or 0 to -45 dBm) (1dBm/interval) and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.

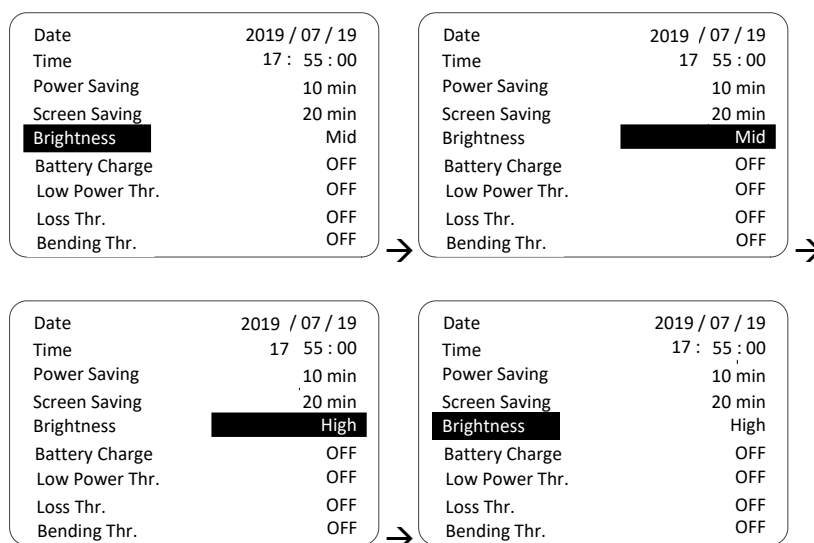| Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	High
Battery Charge	OFF
Low Power Thr.	OFF
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	High
Battery Charge	OFF
Low Power Thr.	**OFF**
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	High
Battery Charge	OFF
Low Power Thr.	**-30 dBm**
Loss Thr.	OFF
Bending Thr.	OFF

→

Date	2019 / 07 / 19
Time	17 : 55 : 00
Power Saving	10 min
Screen Saving	20 min
Brightness	High
Battery Charge	OFF
Low Power Thr.	-30 dBm
Loss Thr.	OFF
Bending Thr.	OFF

Note

"Low Power" will be displayed if the measured value of optical power is less than low power threshold. The Pass/Fail LED indicator on the device will be red.

5.16.8   Loss Thr. (Default: 5dB)

1. Press [↑] [↓] to move to "Loss Thr." and press [↵] to set the threshold.
2. Press [↑] [↓] to select the threshold (OFF or 1 to 5 dB) (0.5dB/interval) and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.
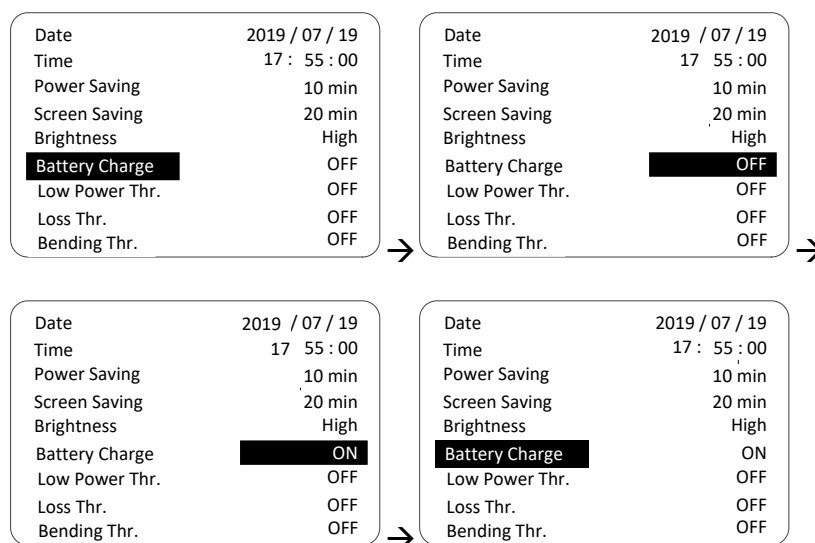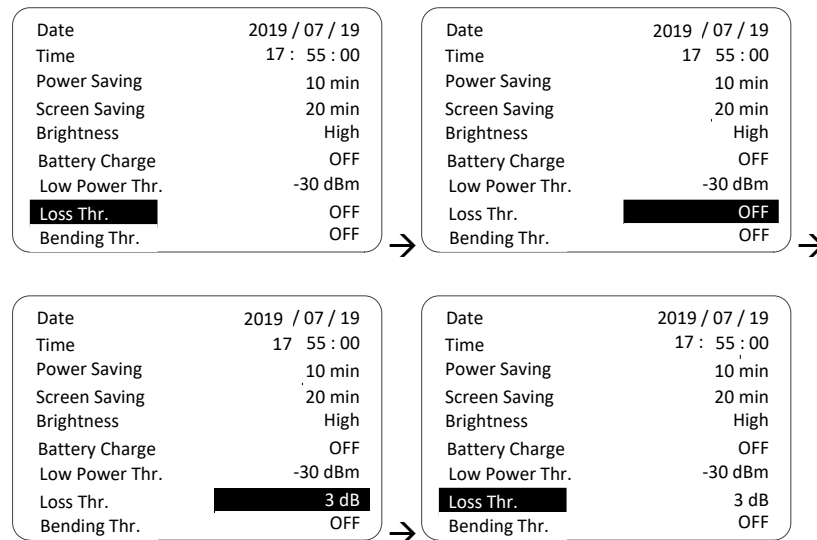
Date 2019 / 07 / 19	Date 2019 / 07 / 19
Time 17 : 55 : 00	Time 17 55 : 00
Power Saving 10 min	Power Saving 10 min
Screen Saving 20 min	Screen Saving 20 min
Brightness High	Brightness High
Battery Charge OFF	Battery Charge OFF
Low Power Thr. -30 dBm	Low Power Thr. -30 dBm
Loss Thr. OFF	Loss Thr. **OFF**
Bending Thr. OFF	Bending Thr. OFF

→

Date 2019 / 07 / 19	Date 2019 / 07 / 19
Time 17 55 : 00	Time 17 : 55 : 00
Power Saving 10 min	Power Saving 10 min
Screen Saving 20 min	Screen Saving 20 min
Brightness High	Brightness High
Battery Charge OFF	Battery Charge OFF
Low Power Thr. -30 dBm	Low Power Thr. -30 dBm
Loss Thr. **3 dB**	**Loss Thr.** 3 dB
Bending Thr. OFF	Bending Thr. OFF

→

Note

"**Loss**" will be displayed if the value measured with long wavelength and the value measured with short wavelength are all higher than loss threshold. The Pass/Fail LED indicator on the device will be red.

5.16.9 Bending Thr. (Default: 3dB)

1. Press [↑] [↓] to move to "Bending Thr." and press [↵] to set the threshold.
2. Press [↑] [↓] to select the threshold (OFF or 1 to 5 dB) (0.5dB/interval) and press [↵] to confirm it; press [ESC] to discard the change and return to the original display.
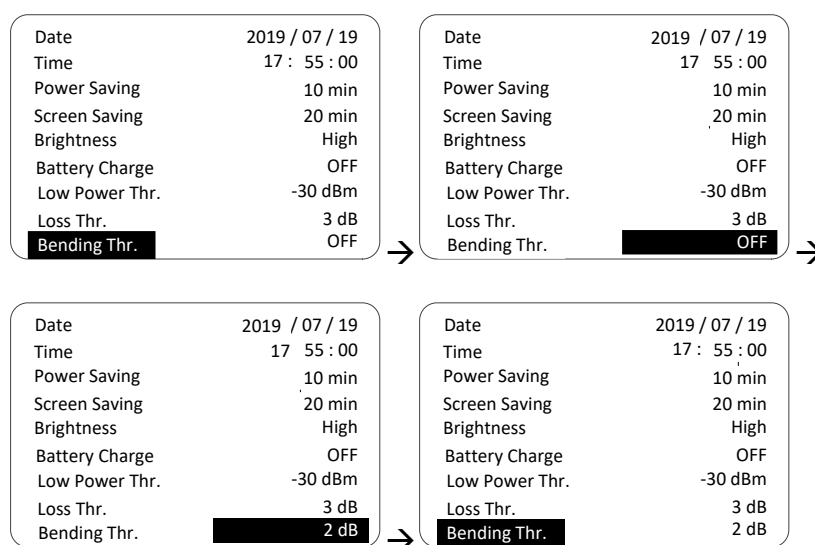
Date 2019 / 07 / 19 Time 17 : 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge OFF Low Power Thr. -30 dBm Loss Thr. 3 dB **Bending Thr.** OFF	Date 2019 / 07 / 19 Time 17 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge OFF Low Power Thr. -30 dBm Loss Thr. 3 dB Bending Thr. **OFF**
Date 2019 / 07 / 19 Time 17 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge OFF Low Power Thr. -30 dBm Loss Thr. 3 dB Bending Thr. **2 dB**	Date 2019 / 07 / 19 Time 17 : 55 : 00 Power Saving 10 min Screen Saving 20 min Brightness High Battery Charge OFF Low Power Thr. -30 dBm Loss Thr. 3 dB **Bending Thr.** 2 dB

Note

1.   This function is only available in OLM-M mode.

2.   "**Bending**" will be displayed if the value measured with long wavelength and the value measured with short wavelength are all higher than bending threshold. The Pass/Fail LED indicator on the device will be red.

5.16.10 Device Info.

Press [↑] [↓] to move to "Device Info" and press [↵] to view device information.

```
       >> Information <<

  Model : OLM300
     SN : 32A190000001

     FW : V1.0.2B
     HW : V1.01.000
```