

Manual Radiometer 9

GUVX-S1XGS9-LA12

MG-09

GUVX-S1XGS9-LA12

User Manual

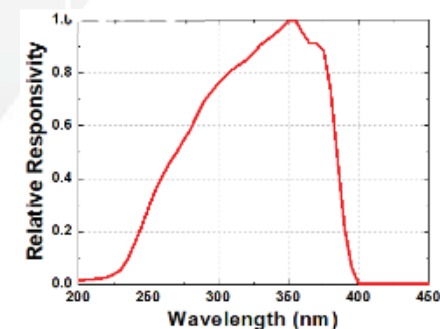
1. Product Features and Specifications

Description:
The GUVX-S1XGS9-LA12, GUVX-S1XGS9-LA13 series
is a probe type measuring instrument with LCD display function.

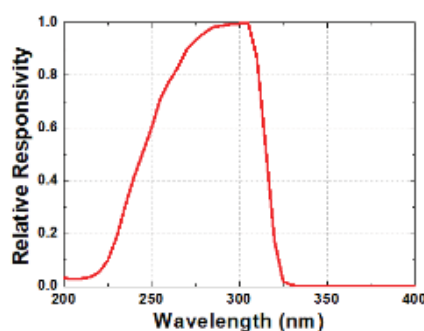
Division	TOTAL UV (VUV)	UVB	UVC	UVC-LED	Far UV	Blue light	UV INDEX
Model Name	¹⁾ GUVV-S10GS9	²⁾ GUVB-S11GS9	³⁾ GUVV-S10GS9	⁴⁾ GUVL-S11GS9	⁵⁾ GFUV-S10GS9	⁶⁾ GVBL-S12GS9	⁷⁾ GUVI-S11GS9
Measured light intensity range	0.00 ~ 999.9 mW/cm ² *						0~11.0 UVI
Detection wavelength range	230 ~ 395 nm	220 ~ 320 nm	220 ~ 280 nm	230 ~ 320 nm	~245nm	330 ~ 445 nm	220 ~ 320nm
Calibration Peak Wavelength	Xenon LAMP UVA Range 320 ~380 nm	Xenon LAMP UVB Range 275 ~310 nm	Xenon LAMP UVC Range 230 ~280 nm	LED 275 nm	222nm Excimer LAMP	LED 385/405 nm	Real Solar
Resolution	0~1mW/cm ² (0.001mW/cm ²), 1~10mW/cm ² (0.01mW/cm ²), 10~100mW/cm ² (0.1mW/cm ²),100~1000mW/cm ² (0.1mW/cm ²)						1 UVI
Function	Absolute Power (mW/cm ²), DOSE(J/cm ² , Accumulative time : Max. 24hour.), Max Power (mW/cm ²)						Index(UVI)
Update rate	2 Times /Sec						
Display	240x320 Graphic LCD						
LCD Size	43 x 57 mm						
Operating Temp.	0 ~ 60 °C						
Operating humidity	RH 10 ~ 85 %						
Accuracy	±10 % (NIST Traceable)						
Product Size	76 x 149 x 19 mm						
Weight	Main Body : 500 g						
Power	Rechargeable Li-ion Battery						

* Customization is available (Maximum of detection power : 10W/cm²)

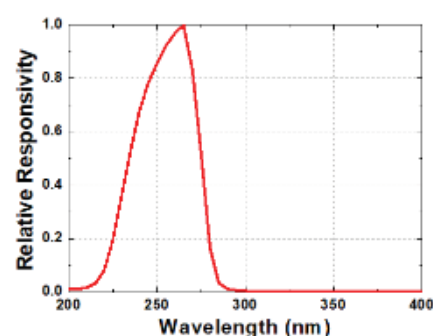
2. Relative Response



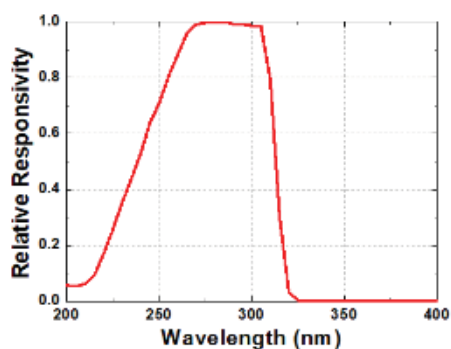
1) GUVV-S10GS9-LA9.2



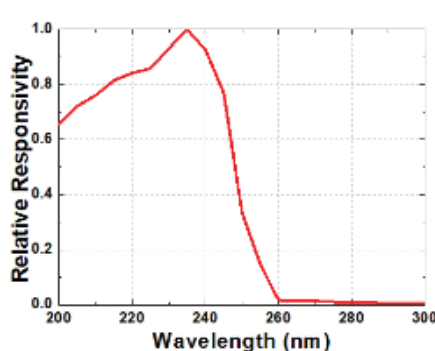
2) GUVB-S11GS9-LA9.2
7) GUVI-S11GS9-LA9.2



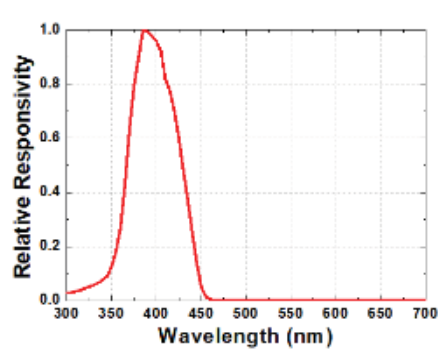
3) GUV C-S10GS9-LA9.2



4) GUVL-S11GS9-LA9.2



5) GFUV-S10GS9-LA9.2



6) GVBL-S12GS9-LA9.2

3. Precautions



Be sure to wear protective gear when monitoring UV lamps.



When measuring lamp light intensity, apply power to the lamp for at least 5 minutes and measure after the light intensity is stabilized.



Store the product in a place free from high temperature, high humidity, vibration, and contaminants.



When the surface of the product or sensor is contaminated, wipe with a dry cloth.



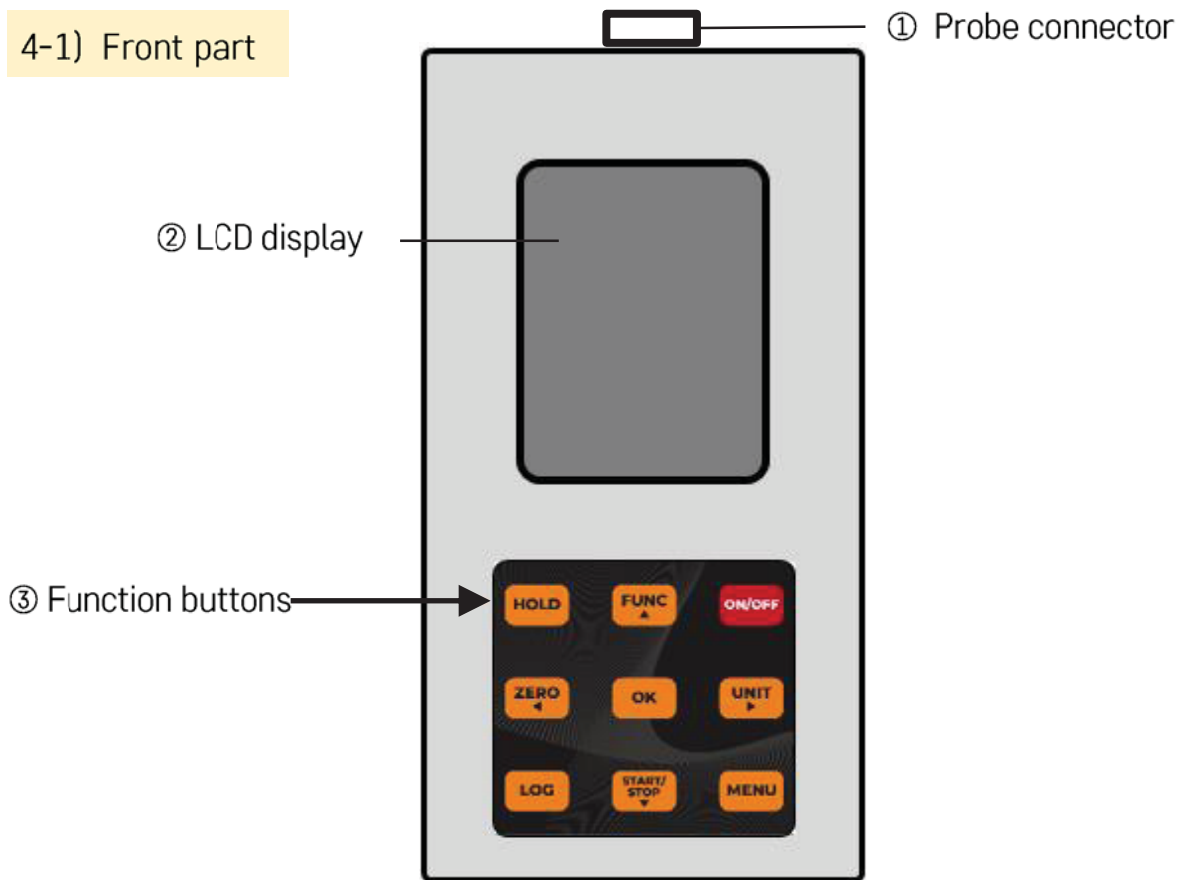
Make sure that no contaminants such as oil or dust get on the light receiving part.



Please do not arbitrarily dismantle or modify the product.

4. Parts Name

4-1) Front part



[UV Radiometer 9 front side]

① Probe connector

② LCD display
 240 x 320 TFT LCD

③ HOLD button : Measurement pause

FUNC button : Function selection for measurement → Log → DOSE → Graph → UVC Safe
 → Measurement

ON/OFF button : Power button

ZERO button : Cumulative value, time reset

OK button : Save the settings selected in the menu

UNIT button : Automatic unit selection → uW/cm² → mW/cm² → W/cm² → Automation

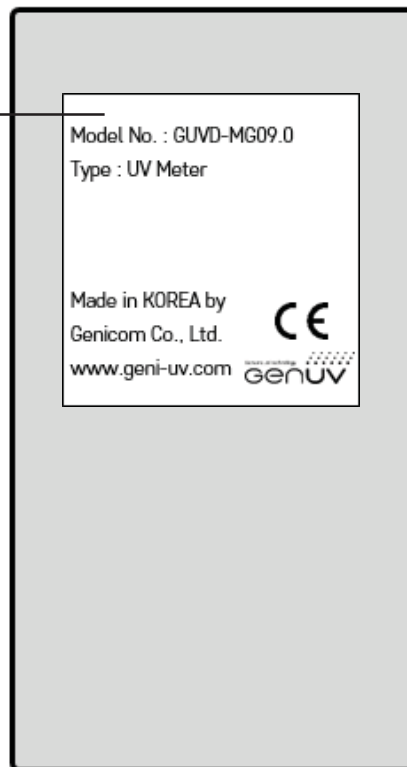
LOG button : Export log files to serial communication.

START/STOP button : Start and end of function selected in FUNC.

MENU button : The button for setting the menu.

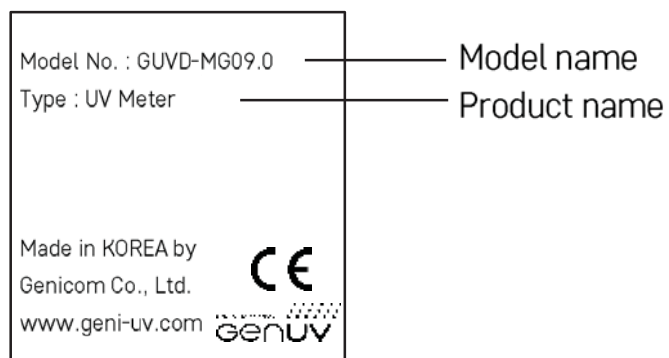
4-2) Back part

① Product information sticker



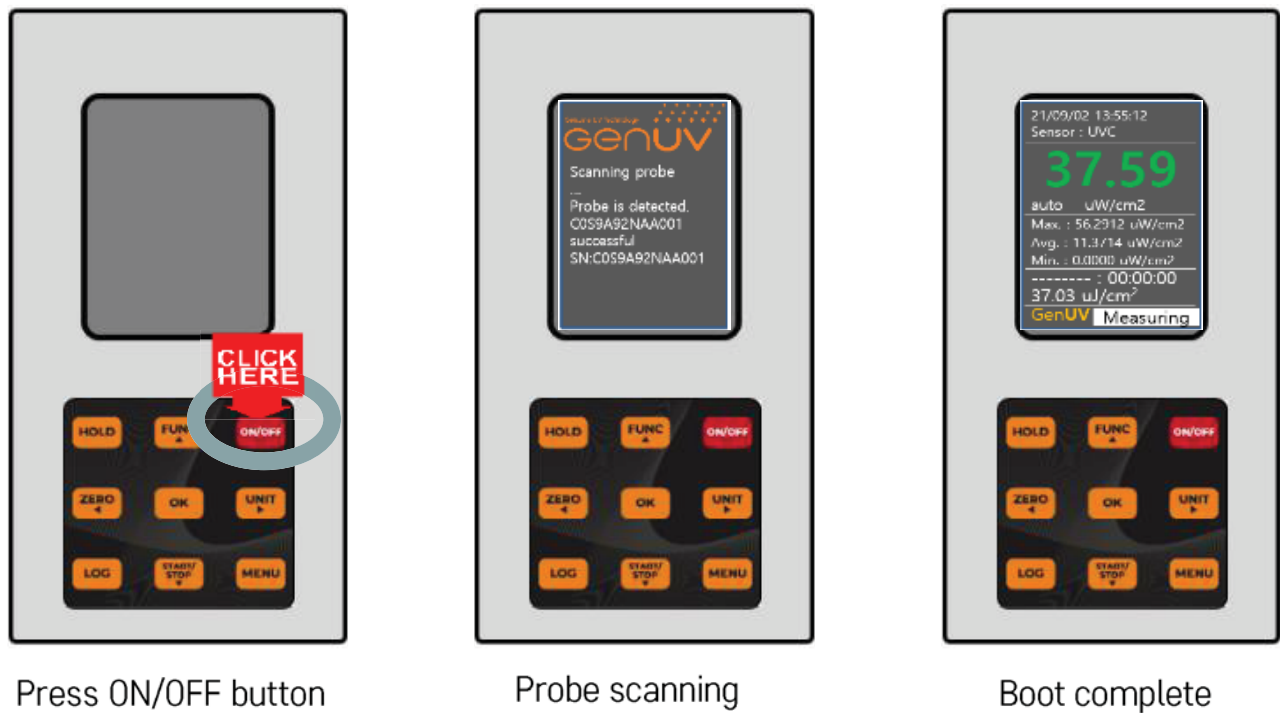
[UV Radiometer 9 rear side]

① Product information sticker



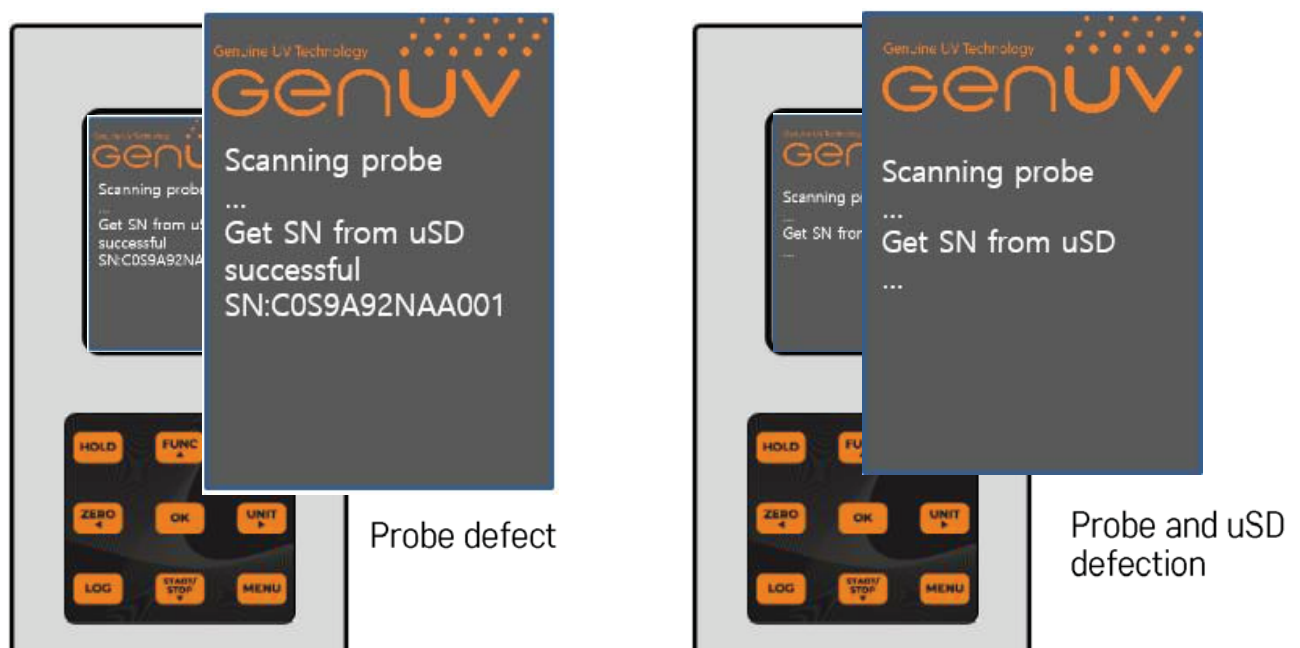
5. Operation guide

5-1) Power on

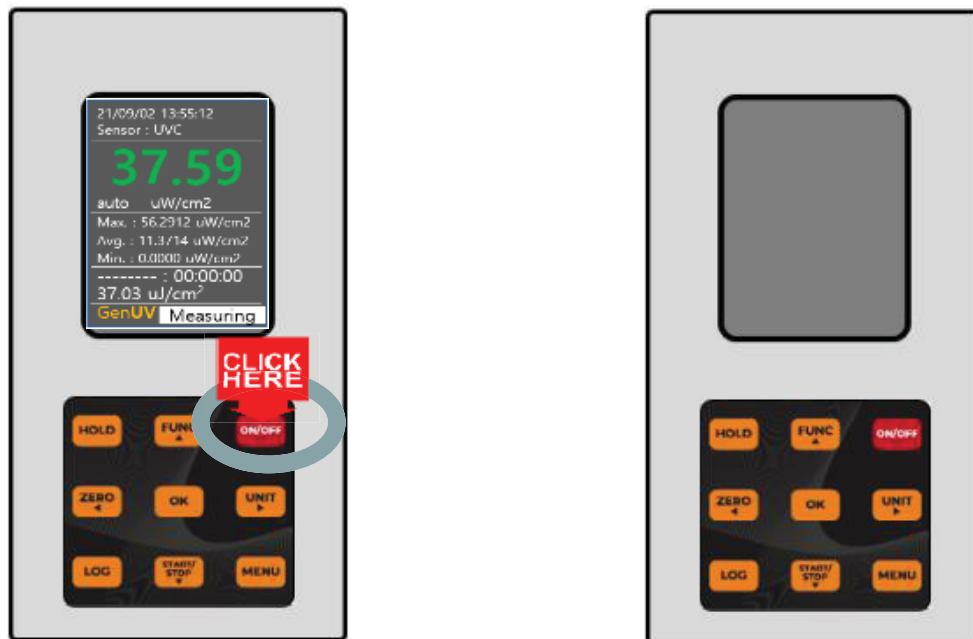


5-2) Abnormal booting

When there is no probe or the internal storage device is defective, the booting screen is as follows.



5-3) Power off



6. Button operation

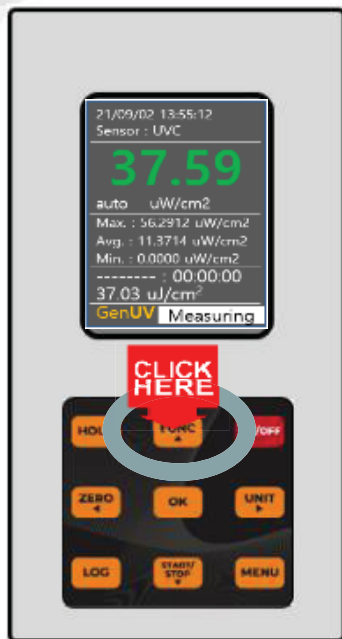
6-1) HOLD button



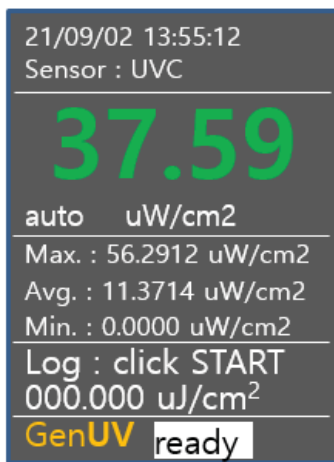
Press the hold button

Press again to release hold

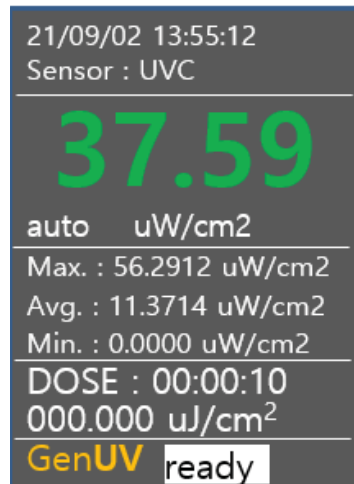
6-2) FUNC button



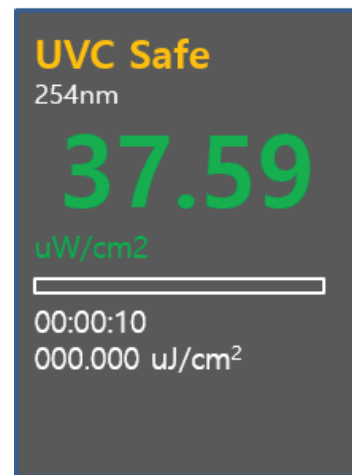
Measurement screen



Log screen



DOSE screen



UVC Safe screen



Graph screen

Each time the FUNC button is pressed, it cycles to the measurement screen → Log → DOSE → Graph → UVC Safe → the measurement screen.

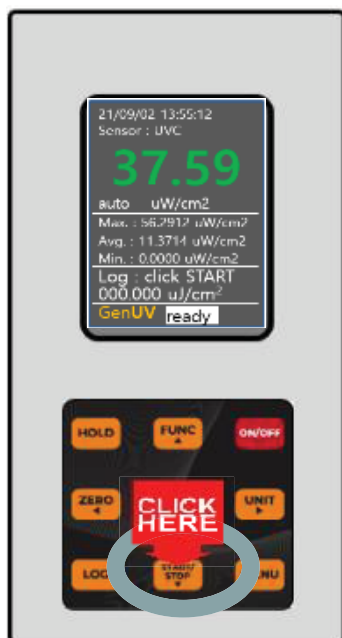
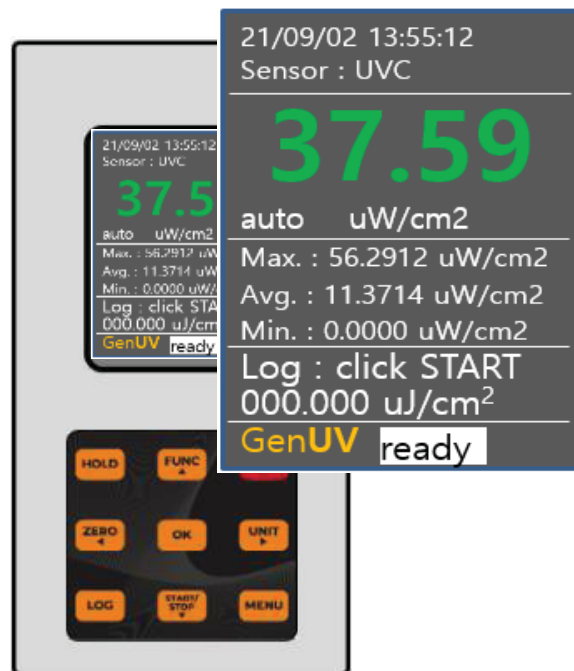
If you press the START/STOP button on the screen, the function works.

6-3) Logging

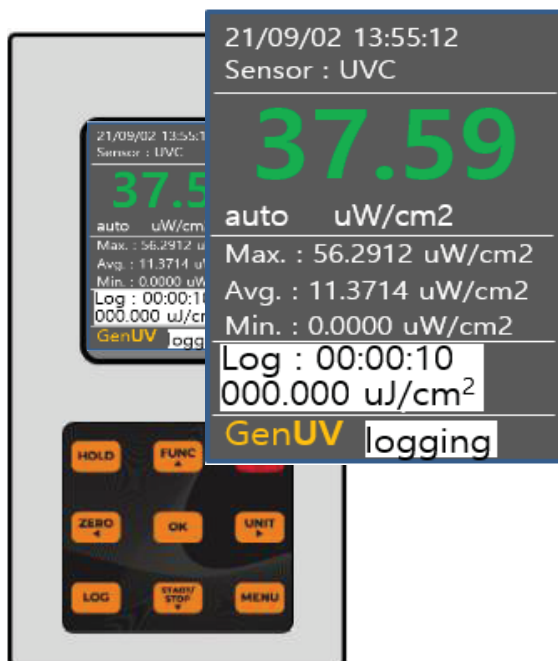
Enter the log mode by pressing the FUNC button



Measurement display



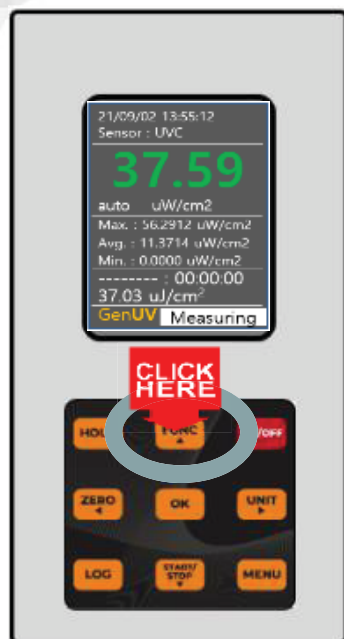
Start logging by pressing the START/STOP button



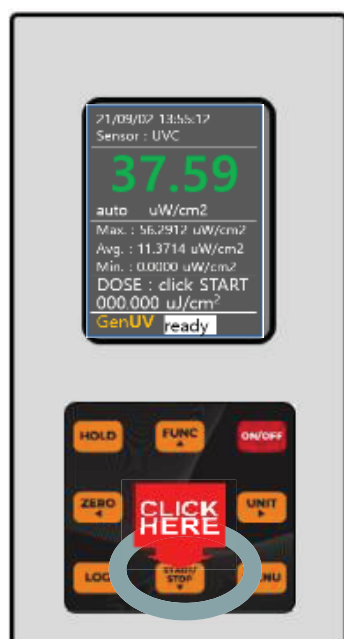
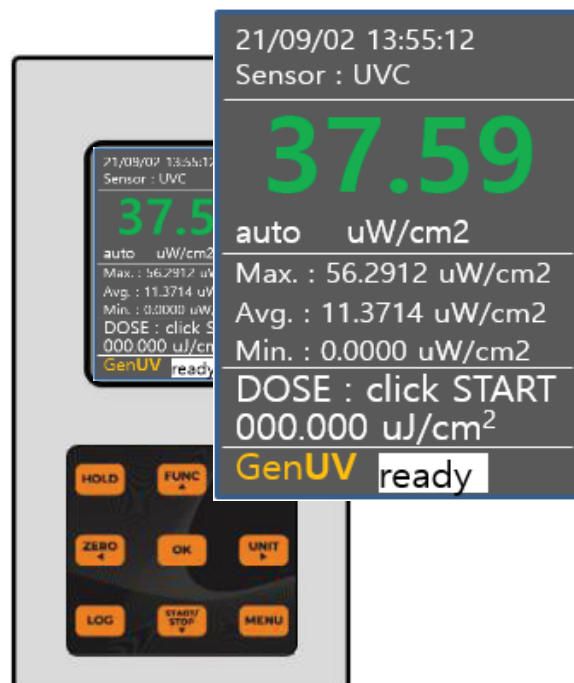
Press the START/STOP button again to end logging

6-4) DOSE

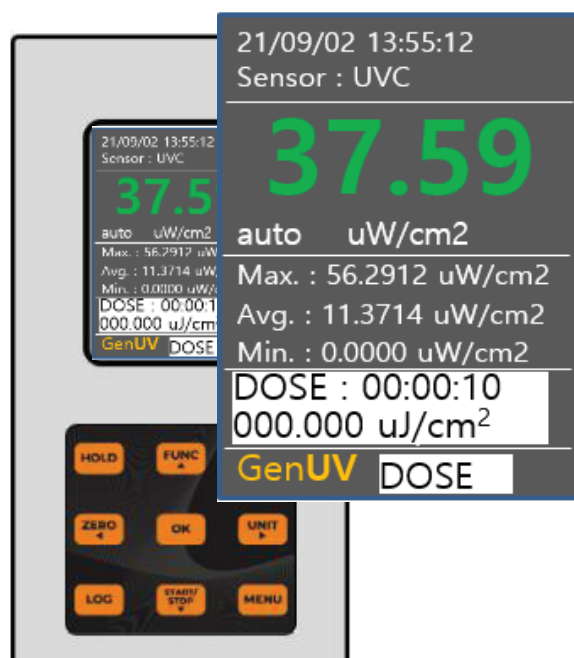
Enter the DOSE mode by pressing the FUNC button



Measurement screen

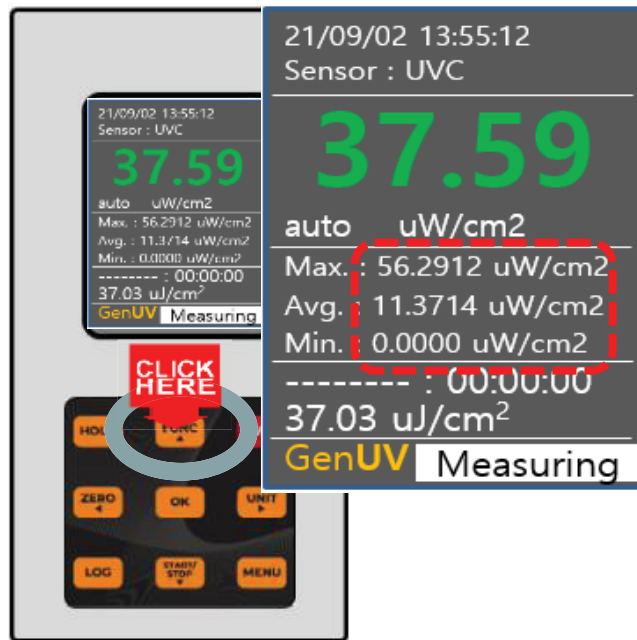


Start DOSE by pressing the START/STOP button

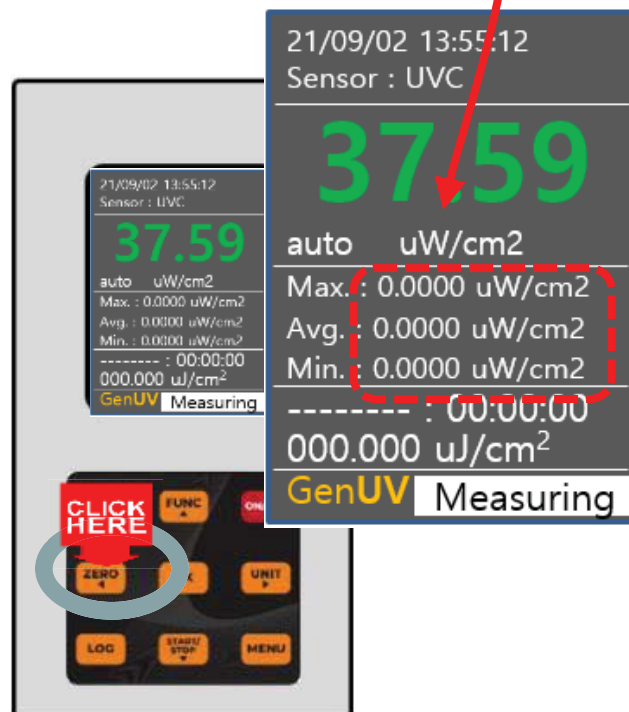


Press the START/STOP button again to end DOSE

6-5) ZERO function

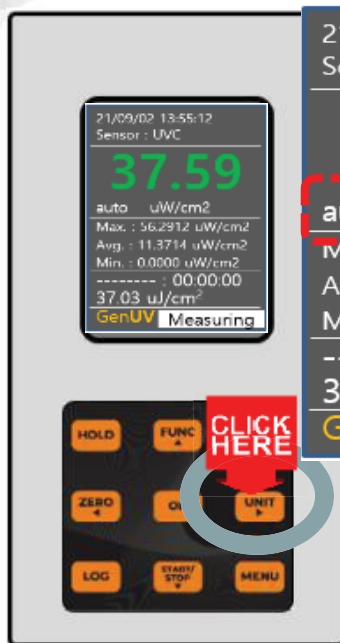


Measurement screen



If you click the ZERO button, the values other than the measured values are initialized to 0.

6-6) UNIT button



auto

21/09/02 13:55:12
Sensor : UVC

37.59

auto uW/cm²

Max. : 56.2912 uW/cm²
Avg. : 11.3714 uW/cm²
Min. : 0.0000 uW/cm²
----- : 00:00:00
37.03 uJ/cm²

GenUV Measuring

Each time the UNIT button is pressed,
auto->user um/cm2 > user mW/cm2 >
user W/cm2 > auto cycle

21/09/02 13:55:12
Sensor : UVC

37.59

user uW/cm²

Max. : 56.2912 uW/cm²
Avg. : 11.3714 uW/cm²
Min. : 0.0000 uW/cm²
----- : 00:00:00
37.03 uJ/cm²

GenUV Measuring

user uW/cm²

21/09/02 13:55:12
Sensor : UVC

0.000

user W/cm²

Max. : 56.2912 uW/cm²
Avg. : 11.3714 uW/cm²
Min. : 0.0000 uW/cm²
----- : 00:00:00
37.03 uJ/cm²

GenUV Measuring

user W/cm²

21/09/02 13:55:12
Sensor : UVC

0.037

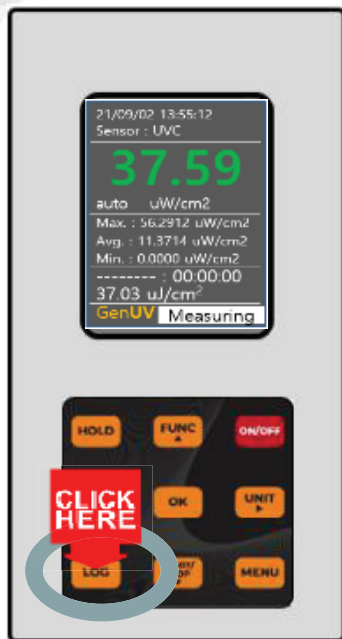
user mW/cm²

Max. : 56.2912 uW/cm²
Avg. : 11.3714 uW/cm²
Min. : 0.0000 uW/cm²
----- : 00:00:00
37.03 uJ/cm²

GenUV Measuring

user mW/cm²

6-7) LOG button



Measurement screen

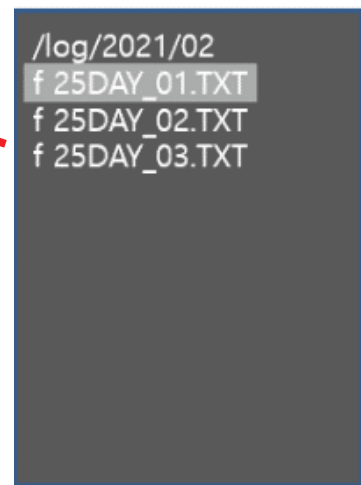
Connect the supplied USBC cable to the communication terminal on the side of MG-09.

Press the LOG button → Log mode → Select the year with the up/down buttons → Click the OK button → Select the month with the Up/down buttons → Click the OK button → Select the file using the Up/down buttons → Click the OK button.

The selected file is output through serial communication.



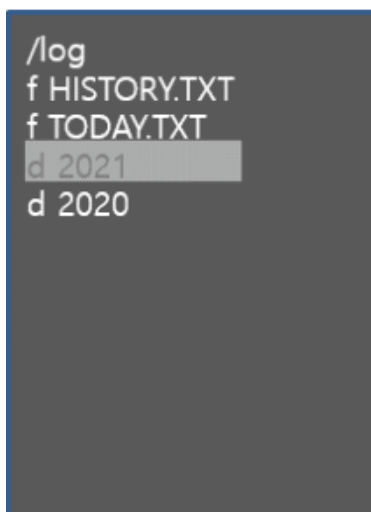
Communication speed:
115200bps
Stop bit : 1
parity : none



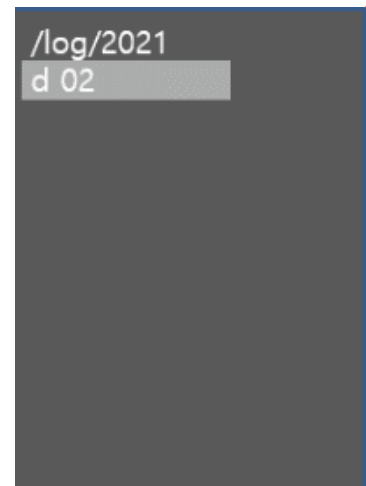
up () down ()
Use the button to select a file and press the OK button.



up () down ()
Select year using button



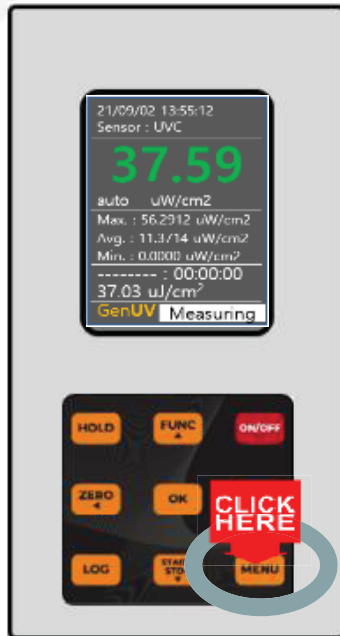
Select the year and click the OK button.



up () down ()
Use the button to select the month and press the OK button.

7. Use the menu button

7-1) MENU button



Press the "HOLD" button

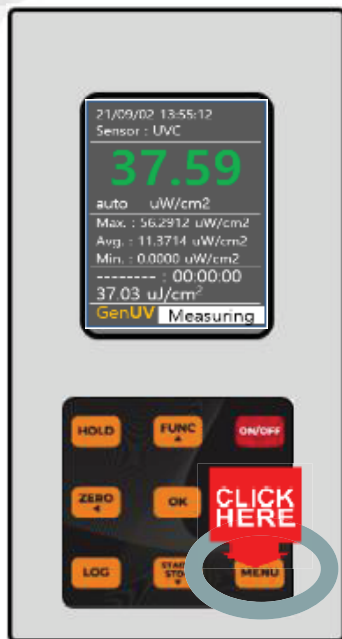
--setup Menu--

1. Setup time
2. Network
3. Export log
4. LCD Backlight
5. Sleep time
6. serial
7. exit

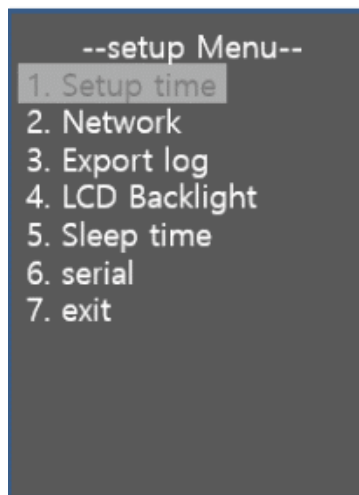
Use up() down() button to select a menu and press the OK button to set the corresponding function.

1. Setup time: Set the system time.
2. Network: Set the communication method to export logging data
3. Export log : Export the saved log data to PC
4. LCD Backlight: Set the LCD backlight brightness
5. Sleep time: Set the time to automatically turn off the system
6. serial : Check the serial number of the system
7. exit: Exit the menu

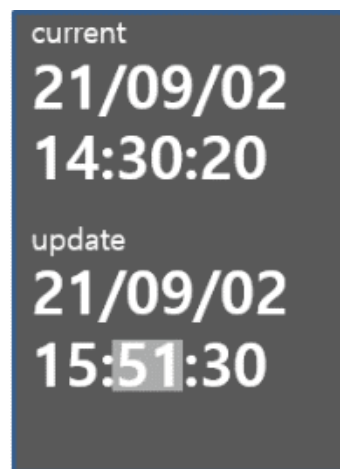
7-2) Setting of system time



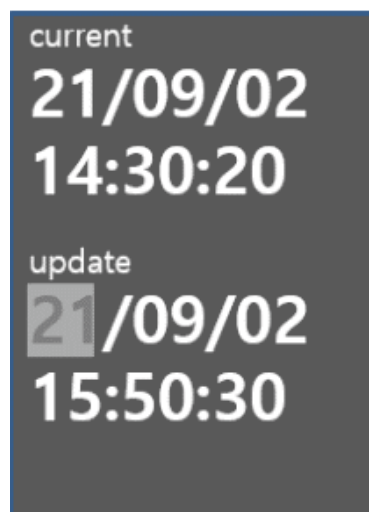
Measurement screen



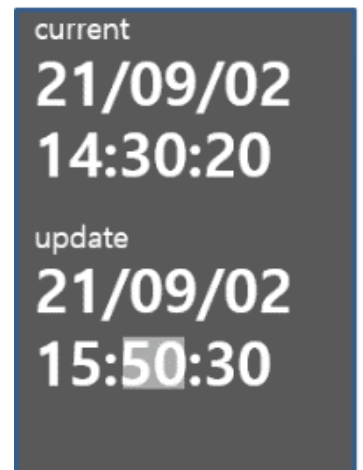
Select "1.setup time" using Up() Down() button and click OK button.



Click the OK button to complete the modification.

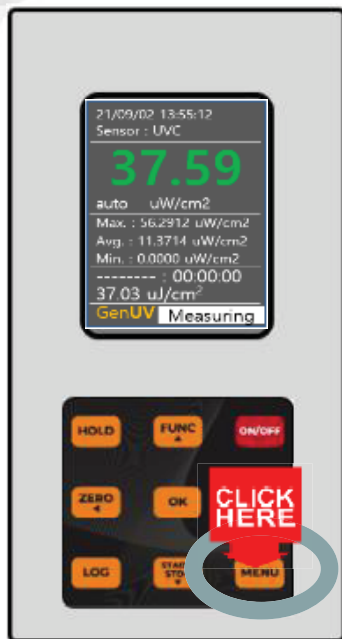


Select the part to be edited using Left() RIGHT() button.

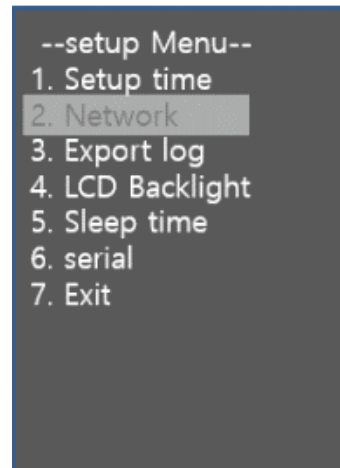


Edit the part using Up() Down() button.

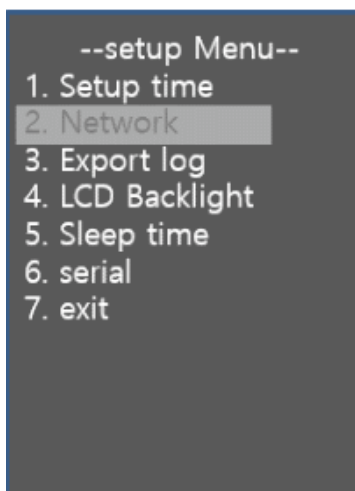
7-3) Set the network configuration method



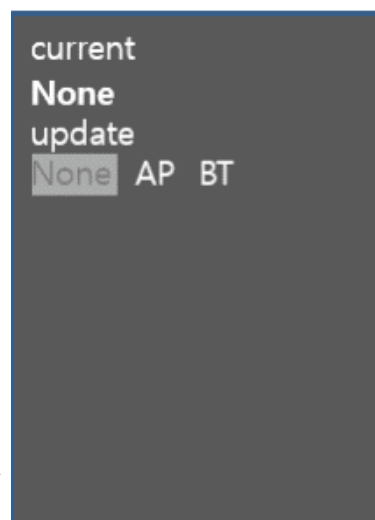
Measurement screen



Click the MEMU button to return to the measurement screen



Select "2. Network" using Up() Down() button and click OK button



Left() Right()
Use the button to select the network to use



Click the OK button to confirm the network

7-4) Export log file from menu

Connect the supplied USBC cable to the communication terminal on the side of the MG-09.

Press the LOG button → Log mode → Select the year with the Up/Down button → Click the OK button → Select the month with the Up/Down button → Click the OK button → Select the file with the Up/Down button → Click the OK button

The selected file is output through serial communication.

```
--setup Menu--
1. Setup time
2. Network
3. Export log
4. LCD Backlight
5. Sleep time
6. serial
7. exit
```

Up() Down()
Select Export log using
button and press OK button.

```
/log
f HISTORY.TXT
f TODAY.TXT
d 2021
d 2020
```

Up()Down()
Select year using button

```
/log
f HISTORY.TXT
f TODAY.TXT
d 2021
d 2020
```

Select the year and click
the OK button.



communication speed:
115200bps
Stop bit : 1
parity : none

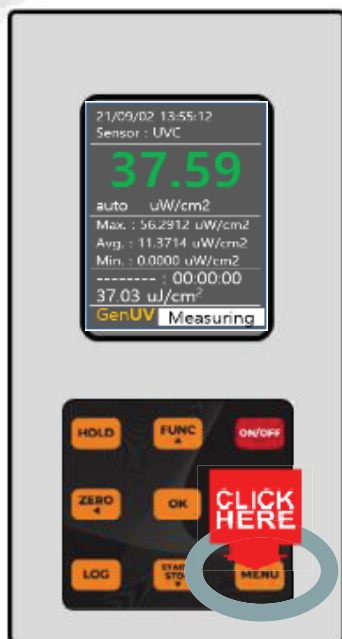
```
/log/2021/02
f 25DAY_01.TXT
f 25DAY_02.TXT
f 25DAY_03.TXT
```

Up() Down()
Use the button to select
a file and press the OK
button.

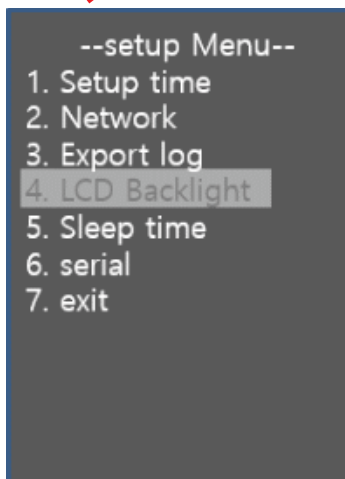
```
/log/2021
d 02
```

Up() Down()
Use the button to select
the month and press the
OK button.

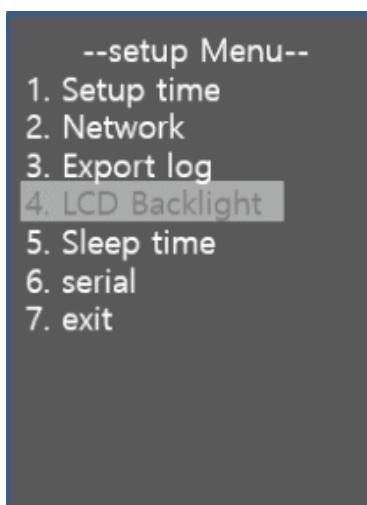
7-5) The setting of LCD backlight brightness



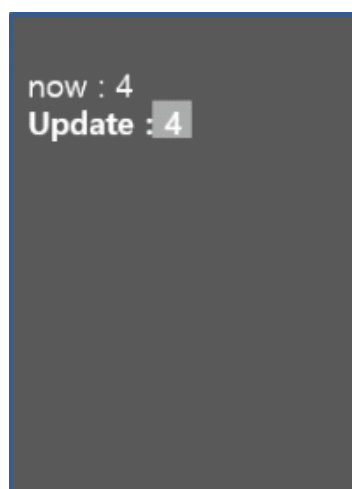
Measurement screen



Return to the measurement screen by clicking the MENU button or exit



Up() Down()
Select LCD Backlight using
button and click OK button

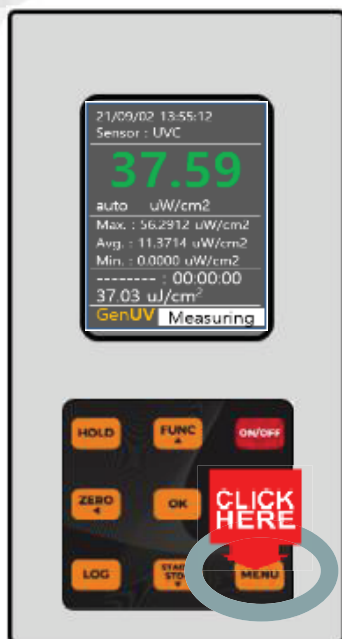


Up() Down()
Use the button to set the
brightness

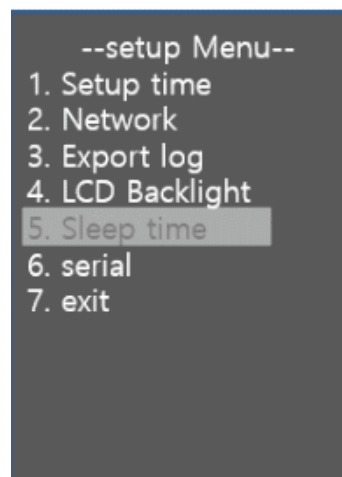


Click the OK button to
confirm the brightness

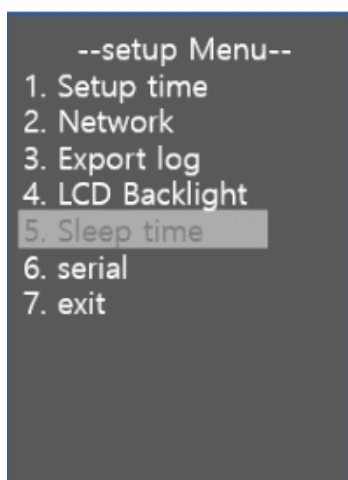
7-6) Sleep time setting



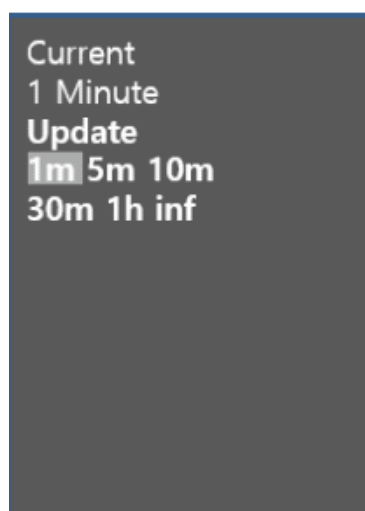
Measurement screen



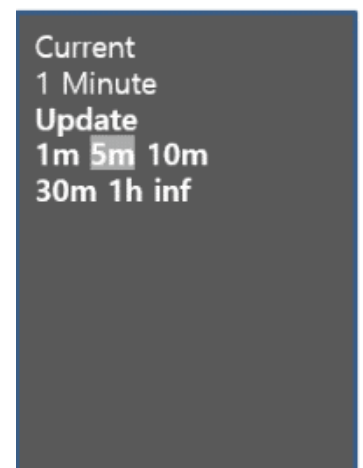
Return to the measurement screen by clicking the MEMU button or exit.



Up() Down()
Use the button to select Sleep time and click the OK button.

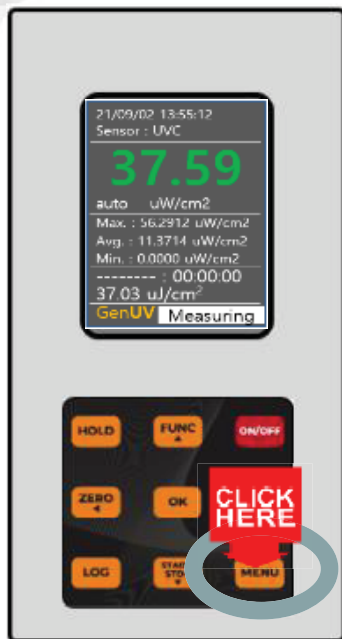


Left() Right()
Use the button to select the time.

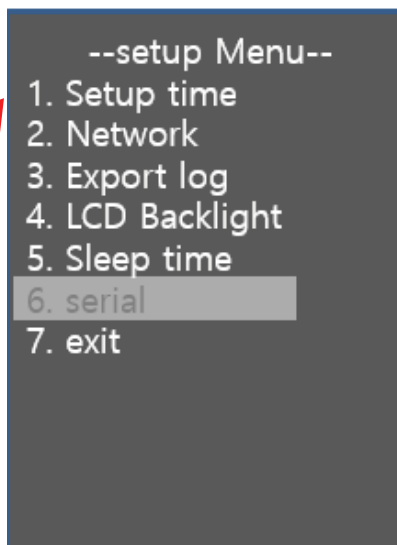


Click the OK button to confirm the brightness.

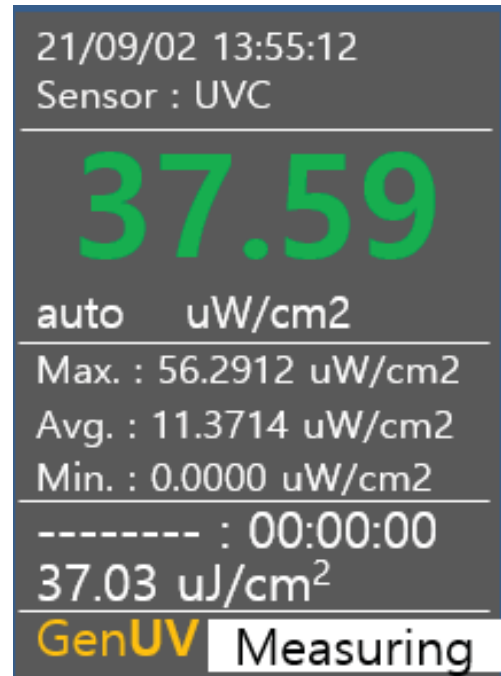
7-7) Check the serial number of the device



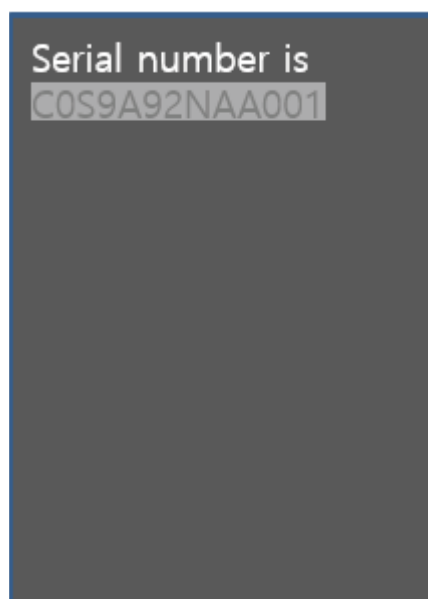
Measurement screen



Up() Down()
Select serial using button and
click OK button

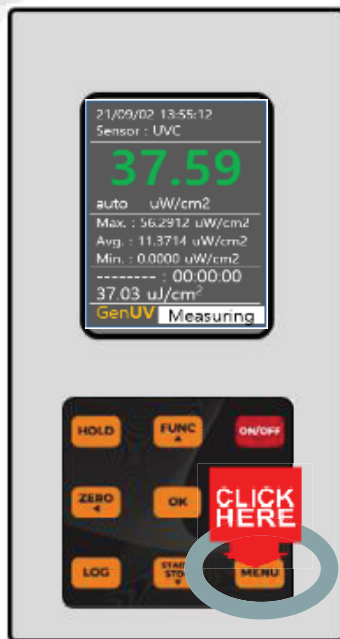


Click the MEMU button to return
to the measurement screen

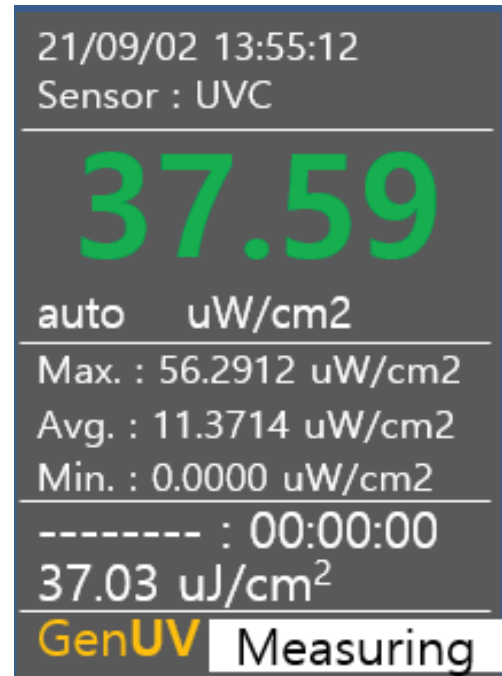


Check serial number

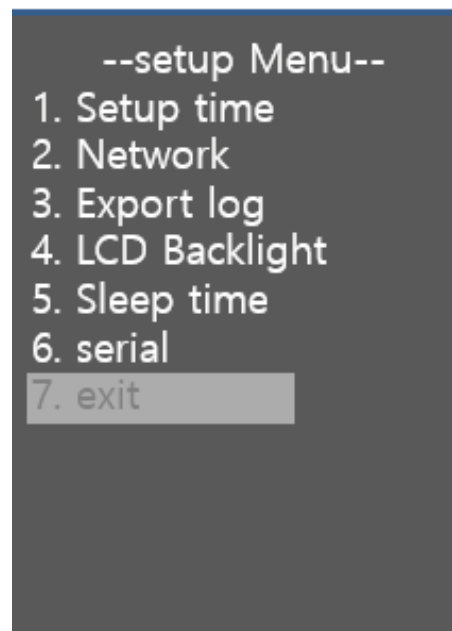
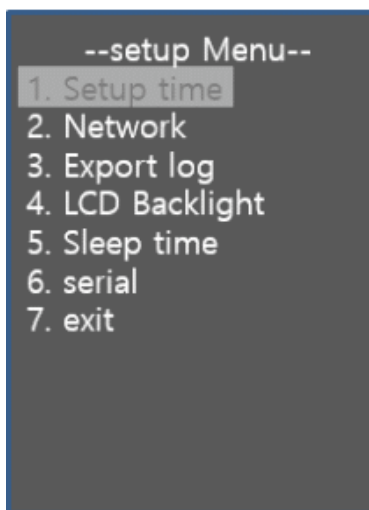
7-8) Exit the menu



Measurement screen



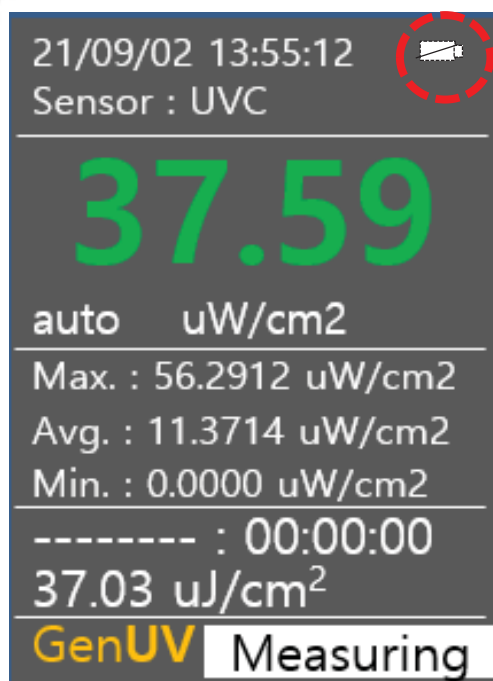
Measurement screen



Up() Down()
Use the button to select exit

Click the OK button to return to the measurement screen.

8. Battery charging



If the battery level indicator on the LCD shows no remaining charge, charge the battery.

6. FAQ

If malfunction is suspected	Checklist
When the power does not turn on	Press the power button correctly.
	Check the charge level.
When the screen is dimmed	Please check the amount of charge.
When battery replacement is displayed	This is an indicator of the amount of charge. Please recharge.
When the measured value is [0]	Make sure the UV light source is turned on.
	Check that the measuring surface of the sensor of the measuring instrument is facing the light source.
	Check the detection wavelength range of the measuring device and the wavelength of the light source. The detection wavelength range can be found on page 6 of the manual and on the back of the measuring instrument.
When the measured value is different depending on the light source	Check out the relative reactivity curves on page 4. Even if it is included in the measurement range, the output value may be different depending on the wavelength of the light source. Calibration light source information for measuring instruments can be found on page 3.
When the measurement is measured low	In the case of a UV index meter, the measurement value may be low or may not be measured on cloudy days.
	Check that the sensor measurement surface is positioned perpendicular to the light source. If the angle is tilted, an accurate measurement will not be made.
	Check if there is any foreign matter on the sensor measuring surface. Foreign substances such as oil and dust can cause a decrease in the amount of light.
When the power is turned off during use	The power is automatically turned off according to the set time. In this case, it is a normal operation.

※ If the symptom is not resolved even after checking according to the above, please contact the place of purchase or A/S center.

7. A/S request in case of abnormality

- ✓ If there is a problem with the product, please contact the place of purchase or the Genicom head office to receive A/S.
- ✓ The product warranty period is 1 year after purchase. However, if A/S occurs due to the customer's negligence or inexperienced operation or the warranty period has elapsed, A/S will be processed for a fee.
- ✓ Product inquiry and online customer support
- ✓ Call : 042-862-3982, Fax : 042-862-2982
E-mail : genuv@geni-uv.com Website : <http://www.geni-uv.com>

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