



Manual

Smart UV Checker 2.0

GUVX-SXXSUC2.0-LA10

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[GUVX-SXXSUC2.0-LA10]

Manual



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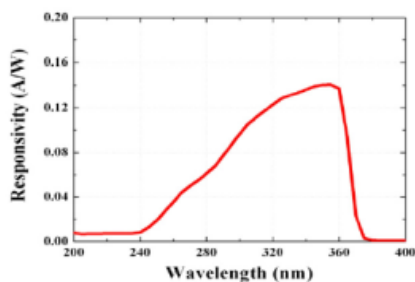
1. Product Features and Specifications

Description: The GUVX-SXXSUV2.0-LA10 are portable instruments with a Android App display.

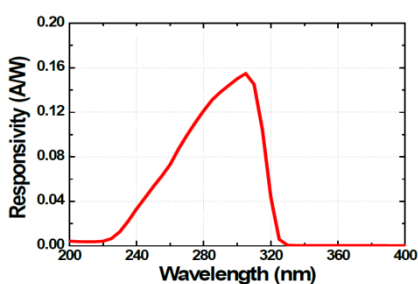
Item	UVA	UVB	UVC	UVC –LED	Blue light	UV INDEX
Model name	¹⁾ GUVA-S12SUC2.0-LA10	²⁾ GUVB-S31SUC2.0-LA10	³⁾ GUVC-S10SUC2.0-LA10	⁴⁾ GUVL-S10SUC2.0-LA10	⁵⁾ GVBL-S12SUC2.0-LA10	⁶⁾ GUVI-S11SUC2.0-LA10
Detection Power range	0.000 ~ 100mW/cm ² *					0 ~ 11 UVI
Spectral detection range	240 ~ 370 nm	220 ~ 320 nm	220 ~ 280 nm	230 ~ 320 nm	345 ~ 450 nm	240 ~ 320 nm
Calibration peak point	365 nm (LAMP)	306 nm (LAMP)	254 nm (LAMP)	275 nm (LED)	385/405 nm (LED)	Solarsimulator
Resolution	0 ~ 1mW/cm ² : 0.001 mW/cm ² 1 ~ 10mW/cm ² : 0.01 mW/cm ² 10 ~ 100mW/cm ² : 0.1 mW/cm ² 100 ~ 1000mW/cm ² : 1 mW/cm ²					1 UVI
Function	Absolute Power (mW/cm ²), Dose (J/cm ² , Start ~ End Time, Accumulated Time), Max. Power (mW/cm ²) Min. Power(mW/cm ²), Avg. Power (mW/cm ²)					Index(UVI)
Display	Android App (Smart UV Checker 2.0)					
Operation temperature	0 ~ 60 °C					
Operation humidity	RH 10 ~ 85 %					
Accuracy	±10 % (NIST Traceable)					

* Customization is available (Maximum of detection power : 1W/cm²)

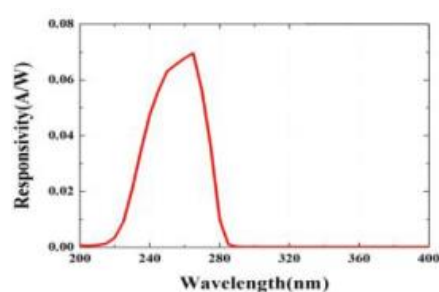
2. Relative Response Curve



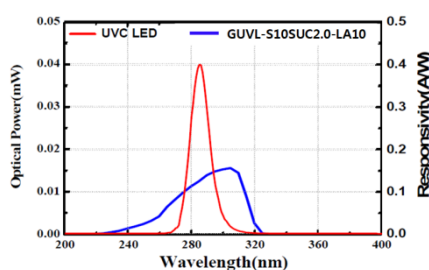
1) GUV A-S12SUC2.0-LA10



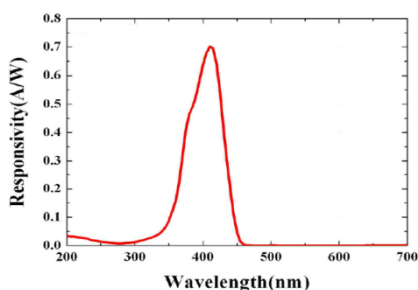
2) GUV B-S31SUC2.0-LA10



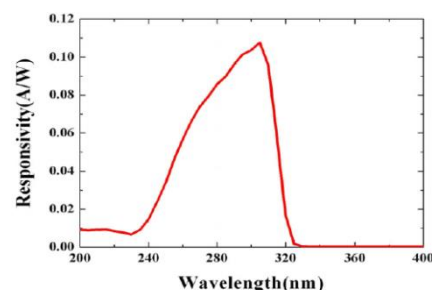
3) GUV C-S10SUC2.0-LA10



4) GUVL-S10SUC2.0-LA10



5) GVBL-S12SUV2.0-LA10



6) GUVI-S11SUV2.0-LA10

3. Caution

	Wear protective gear when monitoring UV lamps.
	Allow lamps to warm-up prior to taking reading (at least 5 minutes).
	Do not subject the meter to extremes in temperature, humidity, shock or dust.
	When the surface contamination of the product, wipe with a soft, clean cloth.
	Keep sensor free of oil, dirt, etc.
	Do not disassemble or modifications.

4. Product Operation Method

4-1) Android App Windows Configuration



1) APP ICON
(Smart UV Checker II)



2) Run App after connecting Probe



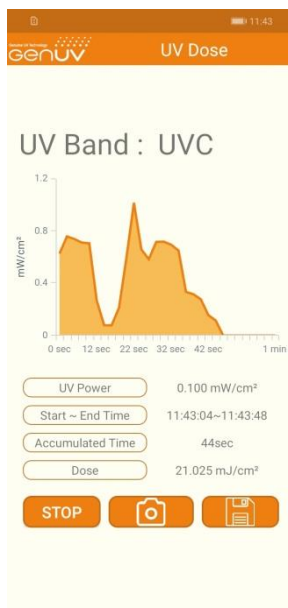
3) Start Logo Window



4) Menu Window



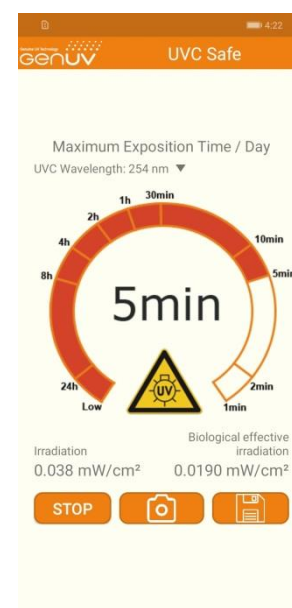
5) UV INTENSITY Window



6) UV DOSE Window



7) UV INDEX Window



8) UVC SAFE Window

[Smart UV Checker 2.0 Window's]

4-2) APP Window Description

A) UV Intensity

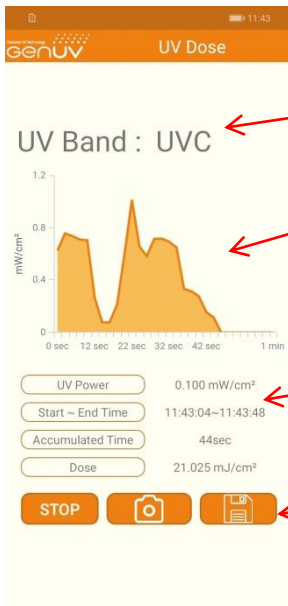


a) UV BAND : UV Measurement Band

c) MIN., MAX., AVG of UV Intensity Measurement

d) **START** **STOP** : UV Intensity Measurement START/STOP BUTTON
 : Screen Capture (E-mail and message screenshot transferable)
 : Data Save
 Save Path:(.../Internal storage\Smart UV Checker II)

B) UV DOSE



a) UV BAND : UV Measurement Band

b) Real-Time Graph : UV DOSE Measurement Graph

c) UV Power(UV Intensity), DOSE Measurement Start ~ End Time
 Accumulated Time, Dose Value

d) **START** **STOP** : UV DOSE Measurement START/STOP BUTTON
 : Screen Capture (E-mail and message screenshot transferable)
 : Data Save
 Save Path:(.../Internal storage\Smart UV Checker II)

C) UV INDEX

※ Normal operation only on GUVI-S11SUC2.0-LA10 Probes.



a) UV INDEX Graph

b) UV Index Value

c) The Sun's damaging rays and a guideline to protection*.

d) **START** **STOP** : UV Index Measurement START/STOP BUTTON

: Screen Capture
(E-mail and message screenshot transferable)

: Data Save
Save Path:(.../Internal storage\Smart UV Checker II)

*

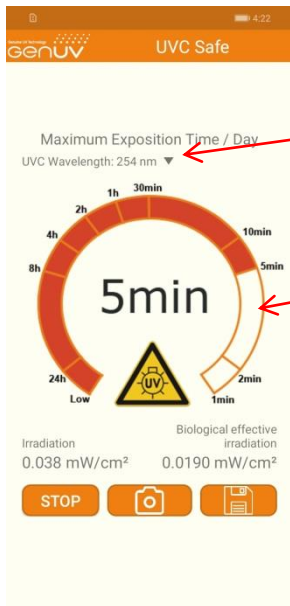
The UV Index

The UV index is a simplified measurement system for the sun's damaging rays and a guideline to protection.

0	LOW	Minimal sun protection required (unless near water or snow). Wear sunglasses if bright.	
1			
2			
3	MODERATE	Take precautions – wear sunscreen, sunhat, sunglasses, seek shade during peak hours of 11 am to 4 pm.	
4			
5			
6	HIGH	Wear sun protective clothing, sunscreen, and seek shade.	
7			
8			
9	VERY HIGH	Seek shade – wear sun protective clothing, sun screen & sunglasses. White sand increases UV radiation exposure.	
10			
11+	EXTREME	Take full precautions. Unprotected skin can burn in minutes. Avoid the sun between 11 am and 4 pm, wear sunscreens & sun protective clothing.	

D) UV SAFE

※ Normal operation only on GUVL-S10SUC2.0-LA10 Probes.
(GUVL-S10SUC2.0-LA10 Probe will also be added in the future.)



a) Input of UVC Wavelength Value

b) UV Safe Graph

c) Irradiation and Biological Effective Irradiation Value

d) **START STOP** : UV Safe Measurement START/STOP BUTTON
 : Screen Capture (E-mail and message screenshot transferable)
 : Data Save
 Save Path:(.../Internal storage\Smart UV Checker II)

4-3) SAVE File Description

A) UV Intensity

a) Save File Name : UV_Intensity_2019-11-21_10:18:31.csv

b) It can be viewed in the micro-office Excel program.

c) Example of save File

Date/Time	UV Power(mW/cm ²)	MAX.(mW/cm ²)	MIN.(mW/cm ²)	AVG.(mW/cm ²)
2019-11-21 10:18	2.32	2.32	2.32	2.32
2019-11-21 10:18	2.46	2.46	2.32	2.39
2019-11-21 10:18	2.49	2.49	2.32	2.43
2019-11-21 10:18	2.52	2.52	2.32	2.45
2019-11-21 10:18	2.51	2.52	2.32	2.46
2019-11-21 10:18	1.94	2.52	1.94	2.38
2019-11-21 10:18	1.24	2.52	1.24	2.21
2019-11-21 10:18	1.04	2.52	1.04	2.07
2019-11-21 10:18	0.89	2.52	0.89	1.94
2019-11-21 10:18	0.76	2.52	0.76	1.82
2019-11-21 10:18	0.71	2.52	0.71	1.72
2019-11-21 10:18	0.896	2.529	0.717	1.653

B) UV DOSE

a) Save File Name : UV_Dose_2020-06-15_08:56:32.csv

b) It can be viewed in the micro-office Excel program.

c) Example of save File

Date/Time	UV Power(mW/cm ²)	Dose(mJ/cm ²)
2020-06-15 8:55	0	0
2020-06-15 8:55	0.055	0.055
2020-06-15 8:55	0.094	0.149
2020-06-15 8:55	0.088	0.237
2020-06-15 8:55	0.086	0.323
2020-06-15 8:55	0.094	0.417
2020-06-15 8:56	0.09	0.507
2020-06-15 8:56	0.055	0.562
2020-06-15 8:56	0.031	0.593
2020-06-15 8:56	0.026	0.619
2020-06-15 8:56	0.135	0.754
.	.	.
.	.	.
.	.	.
.	.	.

C) UV INDEX

a) Save File Name : UV_Dose_2020-01-10_16:33:32.csv

b) It can be viewed in the micro-office Excel program.

c) Example of save File

Date/Time	UV Voltage(Hex)	UVINDEX
2020-01-10 16:33	110	0
2020-01-10 16:33	125	1
2020-01-10 16:33	230	2
2020-01-10 16:33	430	3
2020-01-10 16:33	500	4
2020-01-10 16:33	600	5
2020-01-10 16:33	700	6
2020-01-10 16:33	800	7
2020-01-10 16:33	900	8
2020-01-10 16:33	A00	9
2020-01-10 16:33	B00	10
2020-01-10 16:33	C00	11

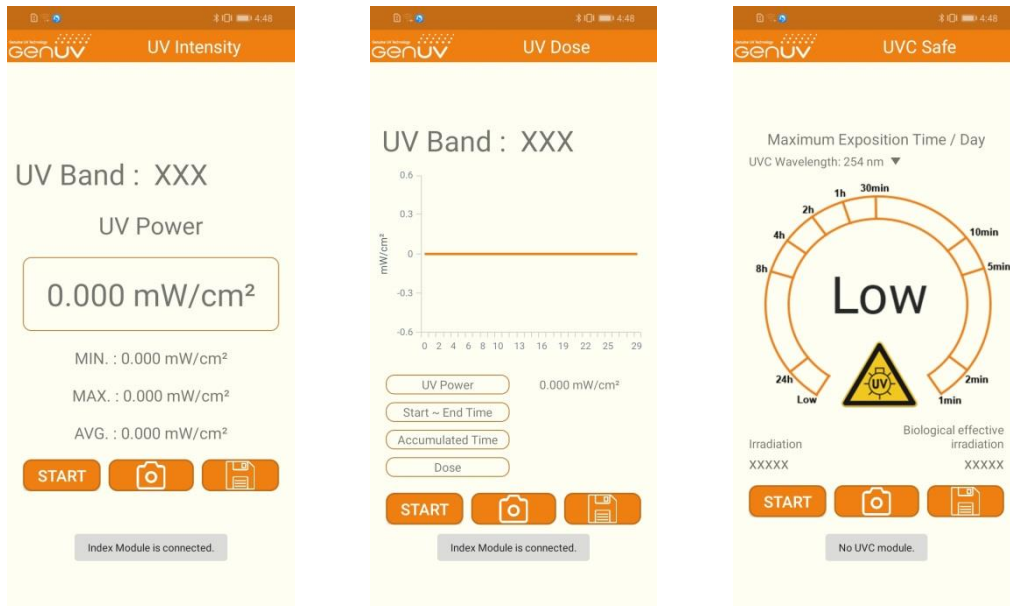
D) UV SAFE

- Save File Name : UVC_Safe_2020-06-15_18:09:39.csv
- It can be viewed in the micro-office Excel program.
- Example of save File

Date/Time	Irradiation(mW/cm ²)	Biological effective irradiation(mW/cm ²)
2020-06-15 18:08	0.03	0.015
2020-06-15 18:08	0.031	0.0155
2020-06-15 18:08	0.032	0.016
2020-06-15 18:08	0.033	0.0165
2020-06-15 18:08	0.034	0.017
2020-06-15 18:08	0.035	0.0175
2020-06-15 18:08	0.037	0.0185
2020-06-15 18:08	0.039	0.0195
2020-06-15 18:08	0.04	0.02

4-4) Error Window

※ The window and probe are not connected properly.



- When measuring UV Intensity, UV DOSE with UV INDEX PROBE.
- When measuring UVC Safe that is not UVC PROBE

5. FAQ

Error item	Check list
When the measured value is [0.0]	Check that the light source is on. For UV index meters, measurements may be impossible on cloudy days.
	Make sure that the incident surface of the sensor probe is perpendicular to the light source.
	Check the detection wavelength range of the measuring instrument and the wavelength of the light source. The detection wavelength range can be found on page 4 of the manual and on the back of the measuring instrument.
When the measured value differs depending on the light source	Please check page 5 relative response curve. Even if included in the measurement range, the output value may vary depending on the wavelength of the light source. The calibration light source information for the measuring instrument can be found on page 4.
When the measured value is measured low	In the case of a UV index meter, the measured value may be low or not measured on cloudy days.
	Make sure that the sensor measuring surface is positioned perpendicular to the light source. If the angle is tilted, accurate measurements will not be made.
	Check if there is foreign substance on the sensor measurement surface. Foreign matter such as oil or dust can cause a decrease in light quantity.
When UVC SAFE measurement fails	Please check the probe model. Verify Micro 5pin OTG Connectors are properly connected.
When UV Index measurement fails	Please check the probe model. Verify Micro 5pin OTG Connectors are properly connected

※ If any problem occurs other than the above, please contact the sales company or A / S center.

6. A/S Request in Case of Product Failure

- Should any failure is found in product, please call the sales company or customer center for A/S.
- Product warranty period is 1 year from the date of procurement with no charge.
However, failure which is caused by user's misuse or carelessness within warrant period or any failure after the warrant period shall be chargeable for it's A/S.
- Product inquiry and on-line customer service Tel : +82-42-862-3982, Fax : +82-42-862-2982
E-mail : uvsensor@geni-uv.com Website : <http://www.geni-uv.com>

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