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Manual

Radiometer 7.1

GUVX-T1XGS7.1-L GUVX-T1XGS7.1-LA9

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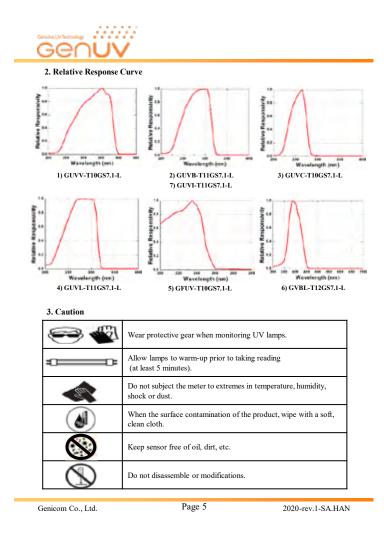
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1. Product Features and Specifications

Description: The GUVX-T1XGS7.1-L are portable instruments with a LCD display.

Item	TOTAL UV (UVA+B)	UVB	UVC	UVC –LED	Far UV	Blue light	UV INDEX	
Model name	¹⁾ GUVV- T10GS7.1-L	²⁾ GUVB- T11GS7.1-L	³⁾ GUVC- T10GS7.1-L	⁴⁾ GUVL- T11GS7.1-L	⁵⁾ GFUV- T10GS7.1-L	⁶⁾ GVBL- T12GS7.1-L	⁷⁾ GUVI- T11GS7.1-L	
Detection Power range	0.00 ~ 99.99 mW/cm* *						0~50.0 UVI	
Spectral detection range	230 ~ 395 nm	220 ~ 320 nm	220 ~ 280 nm	220 ~ 320 nm	~250nm	330 ~ 445 nm	220 ~ 320 nm	
Calibration peak point	365 nm (LED)	306 nm (Lamp)	254 nm (Lamp)	285 nm (LED)	222nm Excimer lamp	385/405 nm (LED)	Solarsimulator	
Resolution	0.1 mW/cm						0.1 UVI	
Function	Absolute Power (mW/cm ²), Dose (J/cm ² , Cumulative time : Max. 12 min.), Max. Power (mW/cm ²)						Index(UVI)	
Conversion rate	3 Readings/Sec							
Display	4.0 Digit LCD							
LCD size	17 x 44 mm							
Operation temperature	0 ~ 60 °C							
Operation humidity	RH 10~85 %							
Accuracy	± 10 % (NIST Traceable)							
Indicator size	73 x 139 x 31 mm							
weight	Indicator : 100 g (Without battery)							
Power	DC 9V Battery							
* Customization is available (Maximum of detection power : 10W/m ^r)								
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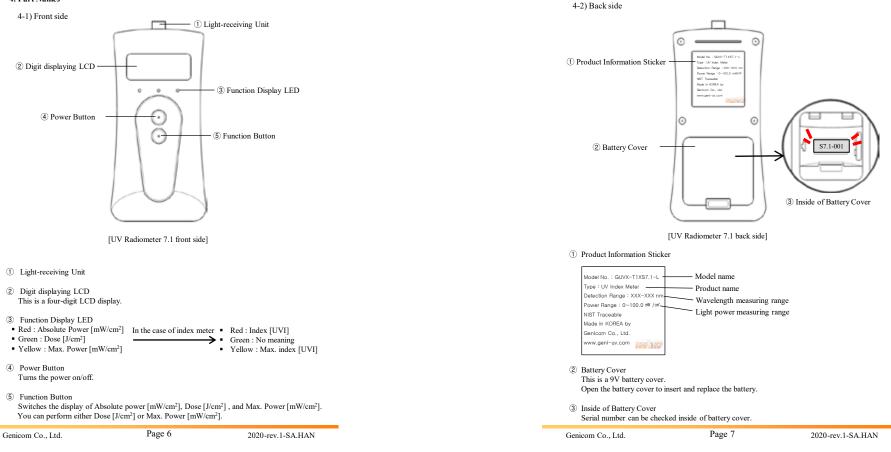


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4. Part Names



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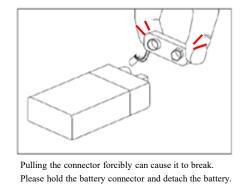
5. Product Operation Method

5-1) Battery check



Remove the battery cover on the back of the main unit and check if the 9V battery is included.

5-2) Precautions for battery replacement



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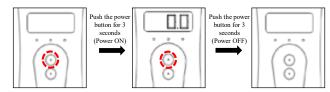
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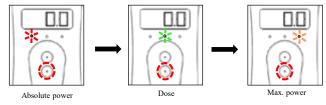
5-3) Power ON or OFF

If you push the power button for 3 seconds, translate the device ON/OFF.

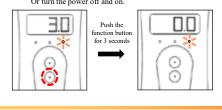


5-4) Function button

If push the function button, the function display will change in order. (ex. Absolute power -> Dose -> Max. power -> Absolute power ...)



5-5) Reset cumulative light intensity(Dose) or maximum light intensity(Max. Power) Select the function that you want. And push the function button for 3 seconds. Or turn the power off and on.



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5-6) Measuring the light power



When power is not Please make sure that 9V battery is installed. turned on Make sure that the battery power is at least 7 V. If it is below 7 V, the power is not turned on or the [batt] message is output. When the screen is Please replace the battery. Depending on the voltage consumption of the battery, the screen dimmed may become blurred. The sensor is located on top of the body. When the [batt] This indicates when the battery should be replaced. Please replace the battery. The measurement surface of the sensor is positioned phrase is displayed perpendicular to the UV light source or solar light that Check that the light source is on. For UV index meters, measurements may be impossible on cloudy days. you want to measure. Make sure that the incident surface of the sensor probe is perpendicular to the light source. When the measured value is [0.0] 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 Please check page 5 relative response curve. 5-7) Notify when to replace the battery value differs Even if included in the measurement range, the output value may vary depending on the depending on the wavelength of the light source. light source The calibration light source information for the measuring instrument can be found on page 4. In the case of a UV index meter, the measured value may be low or not measured on cloudy days. If the [batt] message is displayed on the LCD or When the measured Make sure that the sensor measuring surface is positioned perpendicular to the light source. if the screen is blurred, replace the battery. value is measured If the angle is tilted, accurate measurements will not be made. low 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 power is off If there is no input value for more than 90 seconds, the power is automatically turned off. during use In this case, it is in normal operation % If any problem occurs other than the above, please contact the sales company or A / S center. 7. 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 * If there is no data input value for more than 90 seconds, the power is automatically turned off. E-mail : uvsensor@geni-uv.com Website : http://www.geni-uv.com Genicom Co., Ltd. Page 10 2020-rev.1-SA.HAN Genicom Co., Ltd. Page 11 2020-rev.1-SA.HAN

6. FAO

Error item

Check list

Press and hold the power button for more than 3 seconds. A short push will not power up.

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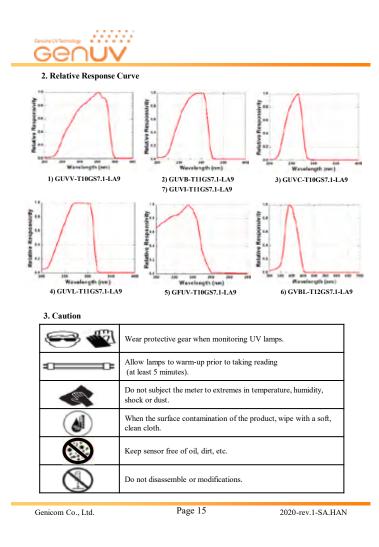
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1. Product Features and Specifications

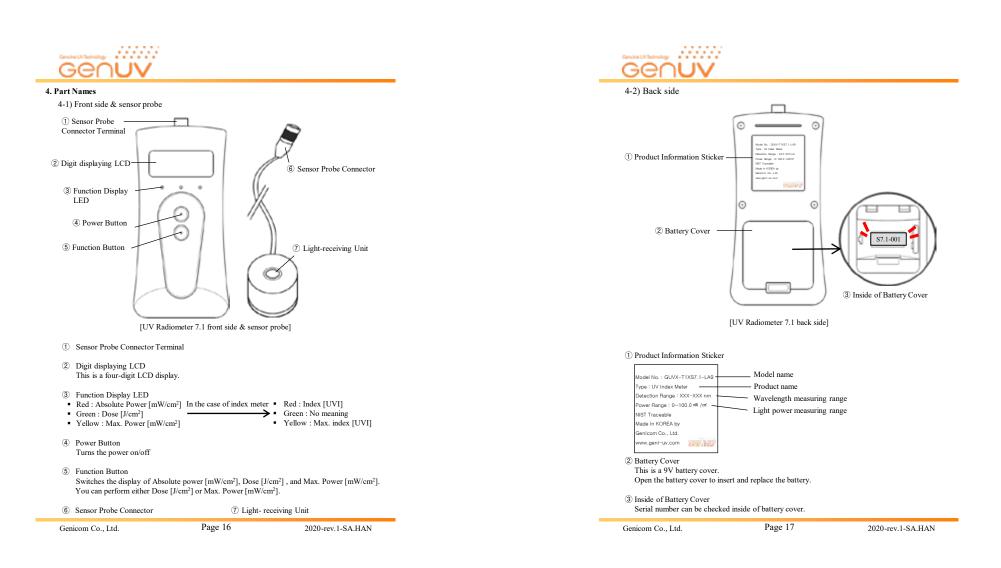
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Detection Power range	0.00~ 99.99 mW/cml *						0~50.0 UVI
Spectral detection range	230 ~ 395 nm	220 ~ 320 nm	220 ~ 280 nm	220 ~ 320 nm	~250nm	330 ~ 445 nm	220 ~ 320 nm
Calibration peak point	365 nm (LED)	306 nm (Lamp)	254 nm (Lamp)	285 nm (LED)	222nm Excimer lamp	385/405 nm (LED)	Solarsimulator
Resolution	0.1 mW/cm ²						0.1 UVI
Function	Absolute Power (mW/cm ²), Dose (J/cm ² , Cumulative time : Max. 12 min.), Max. Power (mW/cm ²)					Index(UVI)	
Conversion rate	3 Readings/Sec						
Display	4.0 Digit LCD						
LCD size	17 x 44 mm						
Operation temperature	0 ~ 60 °C						
Operation humidity	RH 10~85 %						
Accuracy	±10 % (NIST Traccable)						
Indicator size	73 x 139 x 31 mm						
weight	Indicator : 100 g (Without battery)						
Power	DC 9V Battery						
* Custon	nization is av	ailable (Max	imum of dete	ction power	: 10W/cm²)		
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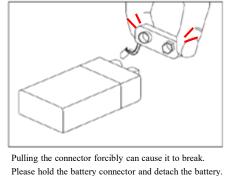
5. Product Operation Method

5-1) Battery check



Remove the battery cover on the back of the main unit and check if the 9V battery is included.

5-2) Precautions for battery replacement



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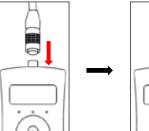
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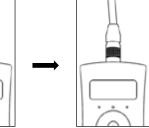
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5-3) Sensor probe connection

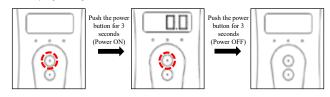
Connect the sensor probe to indicator. If you connect it in the right direction, it will be fixed with a 'click' sound.





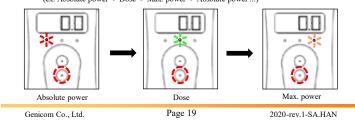
5-4) Power ON or OFF

If you push the power button for 3 seconds, translate the device ON/OFF.



5-5) Function button

If push the function button, the function display will change in order. (ex. Absolute power -> Dose -> Max. power -> Absolute power ...)

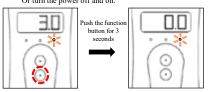


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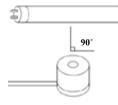
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5-6) Reset cumulative light intensity(Dose) or maximum light intensity(Max. Power) Select the function that you want. And push the function button for 3 seconds. Or turn the power off and on.

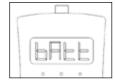


5-7) Measuring the light power



The sensor is located on top of the sensor probe. The measurement surface of the sensor is positioned Perpendicular to the UV light source or solar light that you want to measure.

5-8) Notify when to replace the battery



If the [batt] message is displayed on the LCD or if the screen is blurred, replace the battery.

× If there is no data input value for more than 90 seconds, the power is automatically turned off. Page 20

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6. FAQ

Error item	Check list					
	Press and hold the power button for more than 3 seconds. A short push will not power up.					
When power is not turned on	Please make sure that 9V battery is installed.					
turned on	Make sure that the battery power is at least 7 V. If it is below 7 V, the power is not turned on or the [batt] message is output.					
When the screen is dimmed	Please replace the battery. Depending on the voltage consumption of the battery, the screen may become blurred.					
When the [batt] phrase is displayed						
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 power is off during use	If there is no input value for more than 90 seconds, the power is automatically turned off. In this case, it is in normal operation.					

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

7. 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

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