

# High Intensity UV Sensor Probe

**GUVx<sup>1</sup>-T1XGC-ILA8**

(Supply Voltage: 9-24V, Current Output)



**Option : x<sup>1</sup> : Select Detection Range**

## Features

- Air Environment, Single Supply Voltage, 4~20mA Current Output, Molex connector
- Adjustable Output (Variable Resistor)

## Applications

UV Lamp Monitoring, Strong UV irradiation monitoring(Max. 20W/cm<sup>2</sup>)

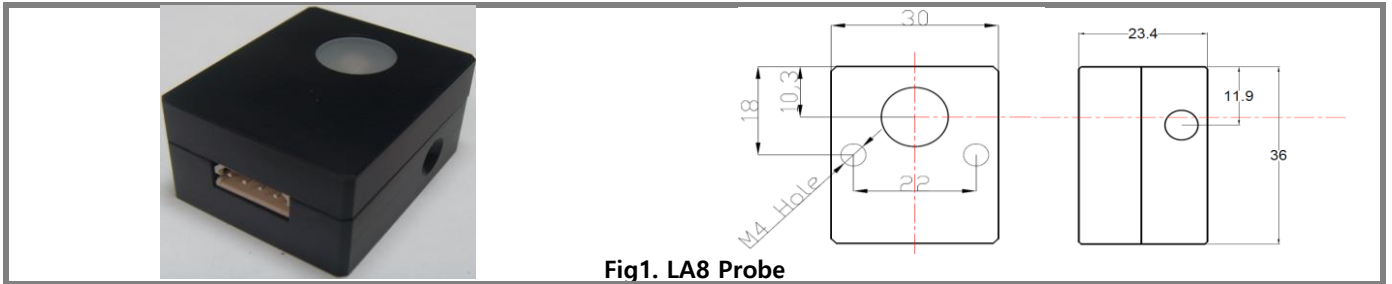


Fig1. LA8 Probe

## Case Dimensions

Parameter	Size (mm)	Window (mm)	No. of fixed hole	hole to hole (mm)	Weight (g)
Dimensions	36 × 30 × 23.4	12	2	22	60

## Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

## Detection Range(Option)

Parameter	Product	Symbol	Value	Unit	Remark	
Detection Range	UV	λ	GUVV-T10GC-ILA8	230 ~ 395	nm	10% of Max.
			GUVA-T11GC-ILA8	220 ~ 370		
			GUVB-T11GC-ILA8	220 ~ 320		
			GUVV-T10GC-ILA8	220 ~ 280		
			GUVL-T10GC-ILA8	220 ~ 320		
	Visible	GVBL-T12GC-ILA8	220 ~ 445			
		GVGR-T10GC-ILA8	300 ~ 510			

\*Refer to page 2 for responsivity curve

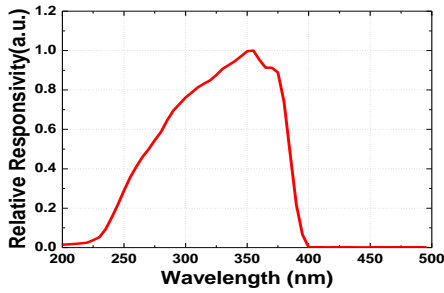
## Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V <sub>cc</sub>	9		24	V	
Offset Current	I <sub>off</sub>	3.9	4	4.1	mA	
Supply Current	I <sub>Q</sub>		0.05		mA	
Output Voltage	V <sub>out</sub>	4		20	mA	
Detection Power Range	P	0		100	mW/cm <sup>2</sup>	*Standard
Response Time	T		10		ms	

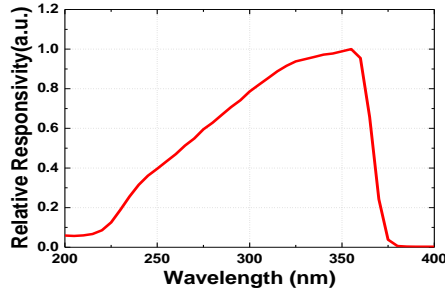
X<sup>1</sup> : Detection Range(GUVx-UV, GVxx-Visible)

\* Order production available (20, 50, 500mW/cm<sup>2</sup> etc), Please fill out the detection power range you want when ordering

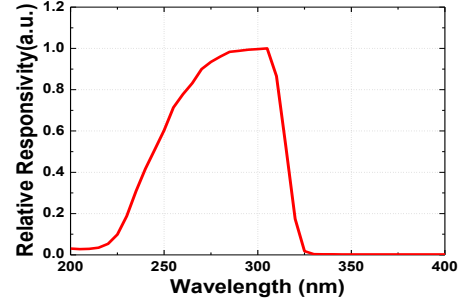
## Responsivity Curve



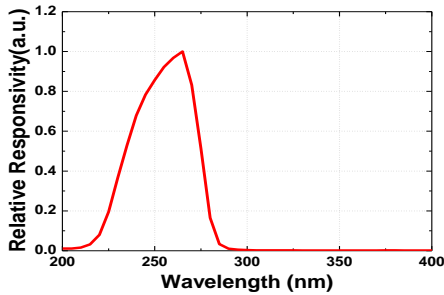
1) GUVV-T10GC-ILA8



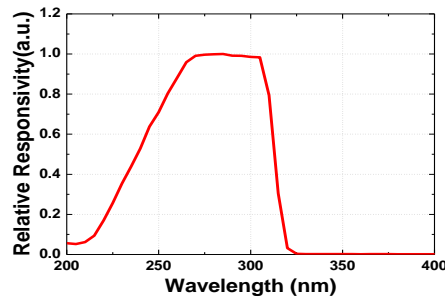
2) GUYA-T11GC-ILA8



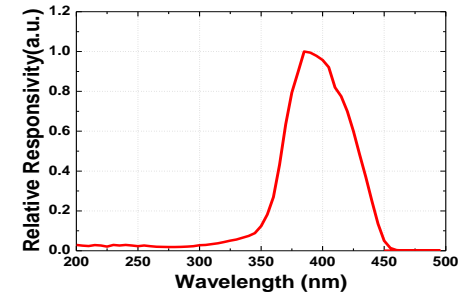
3) GUVB-T11GC-ILA8



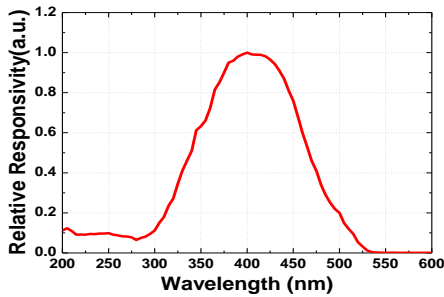
4) GUVV-T10GC-ILA8



5) GUVL-T10GC-ILA8

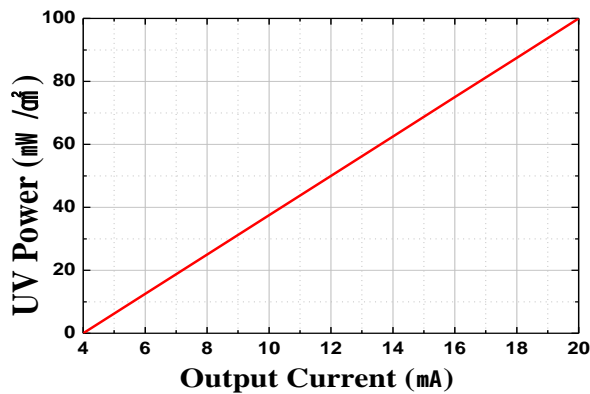


6) GVBL-T12GC-ILA8



7) GVGR-T10GC-ILA8

## UV Power along Output Current



GUVx-T1XGC-ILA8

$$\text{UV Power (mW/cm}^2\text{)} = [I_{\text{out}} \text{ (mA)} - 4] \times 6.25$$

## Wiring connections



Color	Terminal	Remark
Red	V <sub>cc</sub>	DC 9 -24V
Black	GND	
Green	I <sub>out</sub>	4 ~ 20mA
White	GND	

Black and White lines (GND) are connect to the internal Sensor probe.