

Adjustable Output UV Sensor Probe

GUV^x¹⁾-T1XGC-ILA6

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



Option : x¹⁾ : Select Detection Range

Features

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

Applications

UV Lamp Monitoring

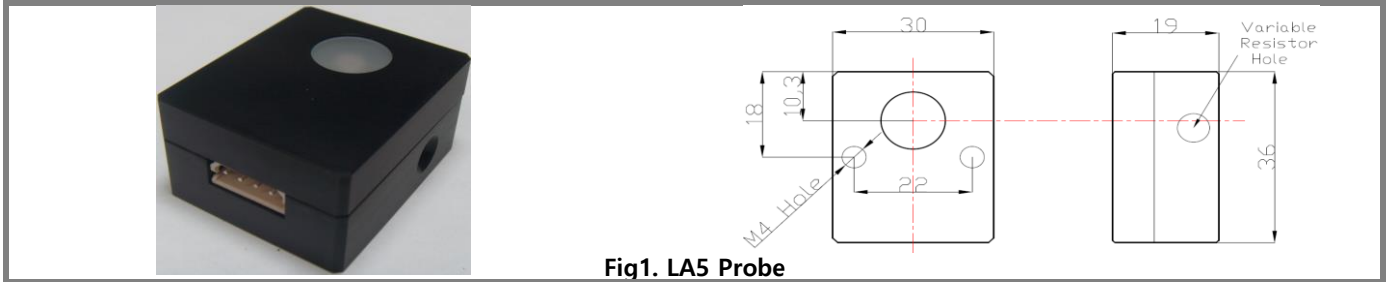


Fig1. LA5 Probe

Case Dimensions

| Parameter | Size (mm) | Window (mm) | No. of fixed hole | hole to hole (mm) | Weight (g) |
|------------|--------------|-------------|-------------------|-------------------|------------|
| Dimensions | 36 × 30 × 19 | 12 | 2 | 22 | 60 |

Absolute Maximum Ratings

| Parameter | Symbol | Value | | | Unit | Remark |
|-----------------------|-----------------|-------|------|------|------|--------|
| | | Min. | Typ. | Max. | | |
| Storage Temperature | T _{st} | -40 | | 90 | °C | |
| Operating Temperature | T _{op} | -30 | | 85 | °C | |

Detection Range(Option)

| Parameter | Product | Symbol | Value | Unit | Remark | |
|-----------------|---------|-----------------|-----------------|-----------|--------|-------------|
| Detection Range | UV | λ | GUVV-T10GC-ILA6 | 230 ~ 395 | nm | 10% of Max. |
| | | | GUVA-T11GC-ILA6 | 220 ~ 370 | | |
| | | | GUVB-T11GC-ILA6 | 220 ~ 320 | | |
| | | | GUVC-T10GC-ILA6 | 220 ~ 280 | | |
| | | | GUVL-T10GC-ILA6 | 220 ~ 320 | | |
| | Visible | GVBL-T12GC-ILA6 | 220 ~ 445 | | | |
| | | GVGR-T10GC-ILA6 | 300 ~ 510 | | | |

*Refer to page 2 for responsivity curve

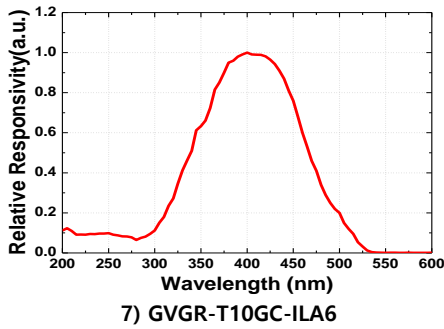
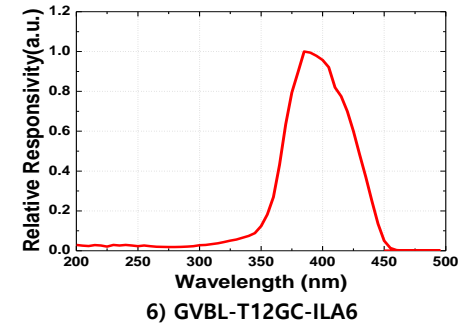
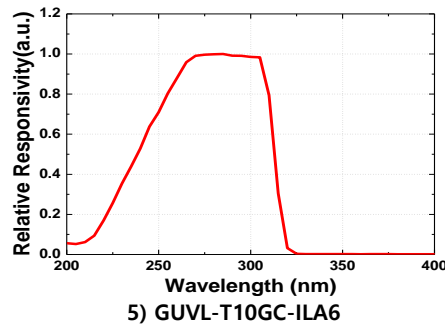
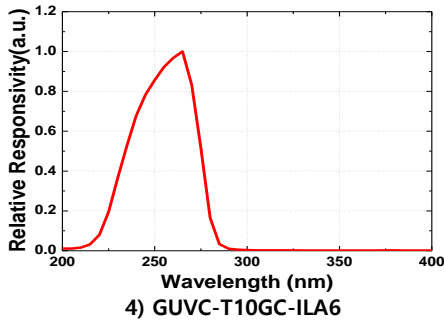
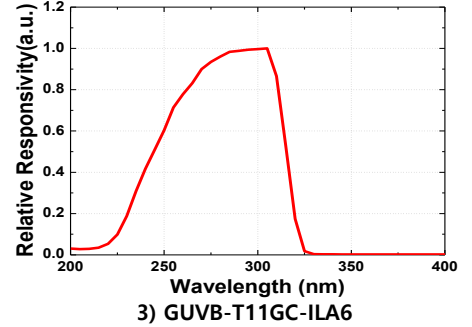
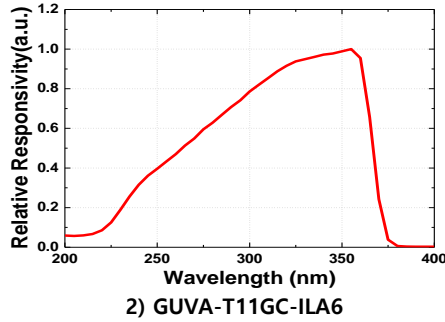
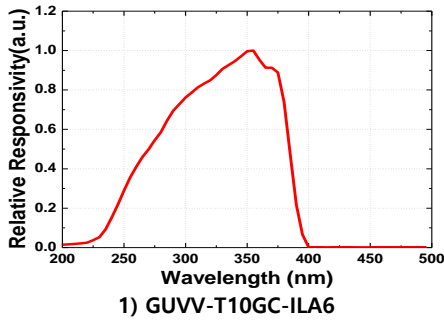
Electro-Optical Characteristics (at 25 °C)

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

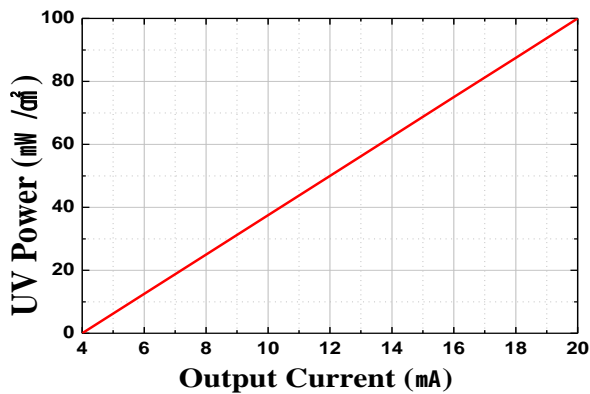
X¹⁾ : Detection Range(GUVx-UV, GVxx-Visible)

* Order production available (20, 50, 500mW/cm² etc), Please fill out the detection power range you want when ordering

Responsivity Curve



UV Power along Output Current



GUVx-T1XGC-ILA6

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

Wiring connections



| Color | Terminal | Remark |
|-------|------------------|-----------|
| Red | V _{cc} | DC 9 -24V |
| Black | GND | |
| Green | I _{out} | 4 ~ 20mA |
| White | GND | |

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