# PHOTODETECTOR: 800~1700nm,

# InGaAs, Biased, Conventional




## Description

LD-PD InGaAs detectors have a sensitivity range of 800~1700nm and are commonly used for visible and infrared light measurements; biased detectors have extremely low noise, fast response, no gain, and low cost, making them suitable for conventional photoelectric detection applications. Large target area detection; excellent performance, high cost performance, all-round technical support, and non-standard customization services.

## Features

● InGaAs detector, with a sensitivity range of 800nm~1700nm, is commonly used for near-infrared light measurement;

● Biased detector, extremely low noise, fast response, no gain; low cost, suitable for conventional photoelectric detection applications;

- Large target area detection;
- Excellent performance, high cost performance, all-round technical support;

## Advantages

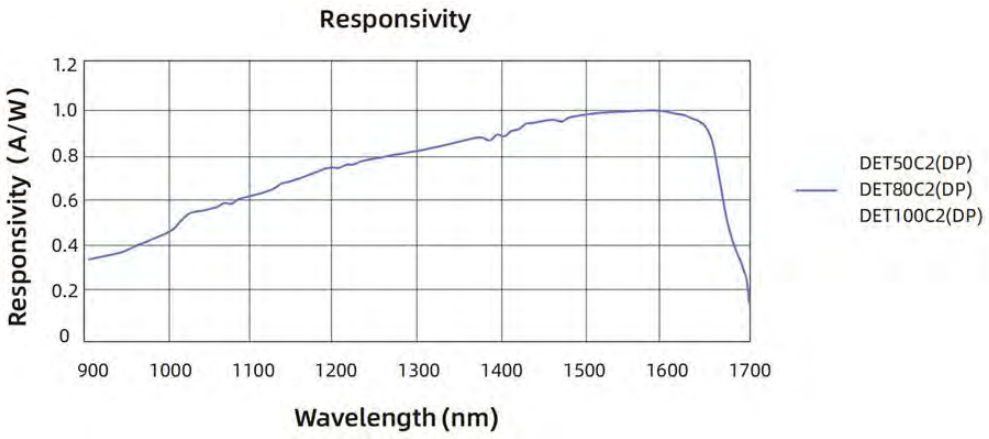
- Monitor the output of Q-switched lasers
- Monitor the output of mode-locked lasers

## Specifications

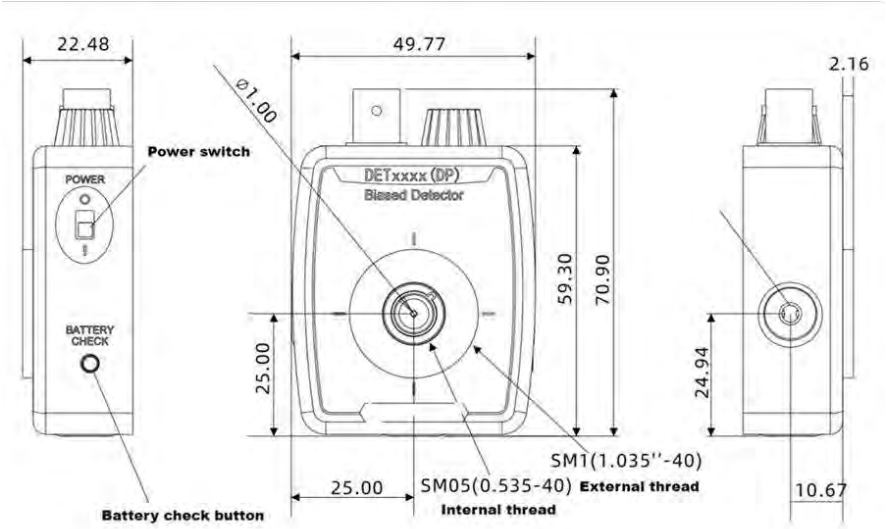
| PN# | DET50C2(DP) | DET80C2(DP) | DET100C2(DP) |
|---|---|---|---|
| Sensitive range | 800~1700nm | | |
| Sensitive size | Φ5mm | Φ8mm | Φ10mm |
| Bandwidth | 1.2MHz | | 0.035MHz |
| Rise time (@50Ω) | 300ns | | 10us |
| Dark current | 10nA(Typ.) | 15nA(Typ.) | 20nA(Typ.) |
| Junction capacitance | 2nF(Typ.) | 5nF(Typ.) | 8nF(Typ.) |
| Bias voltage | 0~2V | | |
| Output current | 0~5mA | | |
| Photosensitive surface depth | 0. 07" (1.7 mm) | | |
| Detector net weight | 0.1kg | | |
| Operating temperature | -40～ 85℃ | | |
| Storage temperature | -20~80℃ | | |
| Appearance size | 2.79" x 1.96" x 0.89" (70.9 mm X 49.8 mm x 22.5 mm) | | |

| Battery | Power switch | Signal interface | Battery Monitoring | Support rod interface | Optical interface |
|---|---|---|---|---|---|
| A23, 12VDC, 40mAh | Slide switch | BNC female socket | Momentary Push Buttons | M4 x 2 | SM1 x 1<br>SM0.5 x 1 |

## Spectral response curve




## Dimension




## Accessories Instructions



## Ordering Info

| PN# | Spectrum response range | Active area | Rise time | Bandwidth | Characteristic |
|---|---|---|---|---|---|
| DET50C2(DP) | 800~ 1700nm | φ5mm | 300ns | 1.2MHz | Large target area detection |
| DET100C2(DP) | | φ10mm | 10us | 0.035MHz | |