

# Quadrant Photodetector Development Kit

*Easy to Use*

*Compact Design*

## Applications

**Laser Beam  
Centering Reference**

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**Laser Beam  
Tracking Systems**



\* Image is larger than actual product.  
See dimensions on back.

NOAH's Quadrant Photodetector Development Kit combines a quadrant photodetector, transimpedance amplifiers, and sum/divider circuitry on a PC board for general development use.

The detector measures beam displacement on two axes (X and Y) and generates normalized displacement signals ranging from -10 to 10 volts. Small displacements from the null position will produce a signal gain of 50 millivolts per micron for a 1-millimeter diameter ( $1/e^2$ ) beam.

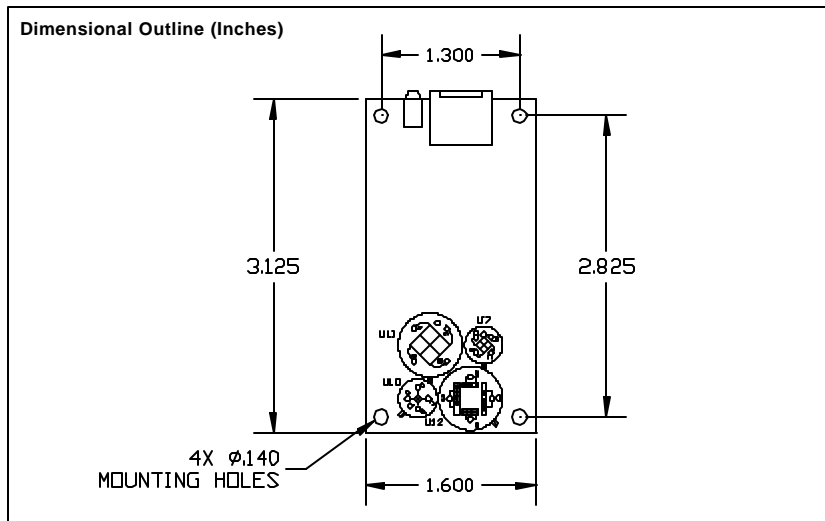
## **Features**

- **Low-light LED indicator**
- **Two transimpedance gain settings**
- **Integrated amplifier electronics minimize the effect of external noise**

# Specifications

Parameter	Specification
Transimpedance Gain	$10^4$ or $10^5$ (selectable)
Bandwidth	DC to 30 kHz
Output Signal Range	
X, Y Position	0 to $\pm 10$ V
SUM	0 to 10 V
DC Supply Requirement	$\pm 15$ V, 50 mA
Nominal Beam Power Range	0.001 to 1 mW

Product Number	Total Active Area (mm)	Gap Size ( $\mu\text{m}$ )	Spectral Range (nm)	Price
PDQDK-10S-SI	1 x 1	10	350 - 1100	\$595
PDQDK-30S-UVSI	3 x 3	100	190 - 1100	\$595
PDQDK-63D-SI	6.3 (diameter)	100	300 - 1100	\$795



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