## **HIGH-SPEED PHOTODETECTORS**

## **Features**

- High-Speed Response
- Wavelength Range of 150-2600nm
- Low-Profile Housing
- Includes Threaded Mount for Ø1" (25mm) Optics
- Battery-Level Check Included
- Internal A23 +12V Bias Battery Included

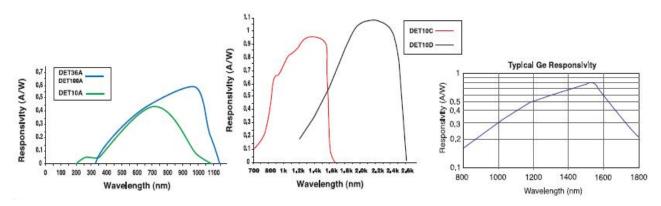


The DET series of photodetectors are compact, versatile, high-speed optical detectors. Each model complete with a fast PIN photodiode and an internal bias batter packaged in a rugged aluminum housing. With a wide-bandwidth, DC-coupled output, these detectors are ideal for monitoring fast-pulsed lasers as well as DC sources. The direct photodiode anode current is provided on a side panel BNC. This output is easily converted to a positive voltage using a terminating resistor. These photodetectors have a thin profile, enabiling use in tight spaces. All connections and control have been moved away from the light path.

INCH	METRIC	TYPE	NEP*1	RISE	ACTIVE AREA	WAVELENGTH RANGE
MODEL NO.	MODEL NO.		(w/√Hz)	TYPE		
DET25K	DET25K/M	GaP	1.6 x 10 <sup>-14</sup>	1/140ns*2	4.8mm² (2.2 x 2.2mm)	150-550nm
DET36A	DET36A/M	Si	1.6 x 10 <sup>-14</sup>	20ns	13mm² (3.6 x 3.6mm)	400-1100nm
DET10A	DET10A/M	Si	1.9 x 10 <sup>-14</sup>	1ns	0.8mm² (Ø1mm)	200-1100nm
DET100A	DET100A/M	Si	5.5 x 10 <sup>-14</sup>	45ns	75.4mm² (Ø9.8mm)	400-1100nm
DET50B	DET50B/M	Ge	4 x 10 <sup>-12</sup>	270ns	19.6mm² (Ø5.0mm)	800-1800nm
DET10C	DET10C/M	InGaAs	1.6 x 10 <sup>-14</sup>	7ns*³	0.8mm² (Ø1.0mm)	700-1800nm
DET10D	DET10D/M	InGaAs	2 x 10 <sup>-12</sup>	25ns	0.8mm² (Ø1.0mm)	1200-2600nm

<sup>\*1..</sup> At peak response wavelength

## TYPICAL SPECTRAL RESPONSIVITY





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<sup>\*2..</sup> Fall time ±180ns

<sup>\*3.. 10</sup>ns maximum

<sup>\*4..</sup> Specific to Aperture size, detectors size is 10x10mm square