

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, enabling use in tight spaces. All connections and control have been moved away from the light path.

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

*1.. At peak response wavelength

*2.. Fall time ±180ns

*3.. 10ns maximum

*4.. Specific to Aperture size, detectors size is 10x10mm square

TYPICAL SPECTRAL RESPONSIVITY

