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TECHNOLOGY GROUP

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Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

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Custom engineering
so your equipment works exactly as you specify.

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Visit our website - *Click HERE*

High-speed Photo Detectors – DET Series

DET10C



DET10A



NEW IMPROVED DESIGN
Broader Bandwidth, Higher Gain, Lower Noise

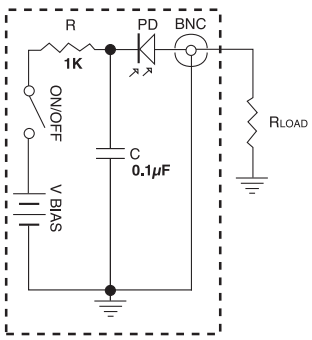
DET Series Features

- High Speed Response
- Responsive from 150 to 2600nm
- Easy to Use
- Internal A23 +12V Bias Battery Included
- Low Profile Housing Minimizes Light Path Interference
- Includes Threaded Mount for 1" (25mm) Optics
- Compatible with SM1 & SM05 Series Products
- Battery Level Check Included

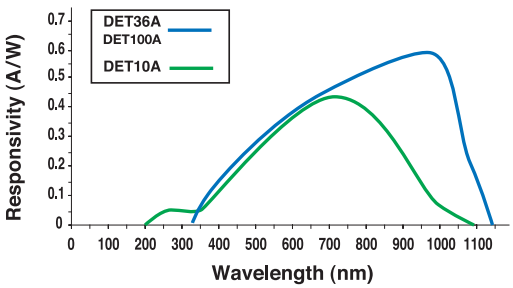
The DET Series photo detectors are compact, versatile, high-speed optical detectors. Each model comes complete with a fast PIN photodiode and an internal bias battery packaged in a rugged aluminum housing. With a wide bandwidth DC-coupled output, these detectors are ideal for monitoring fast-pulsed lasers 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. We recommend a 50Ω load resistance for fastest response times (see the T4119 shown below).

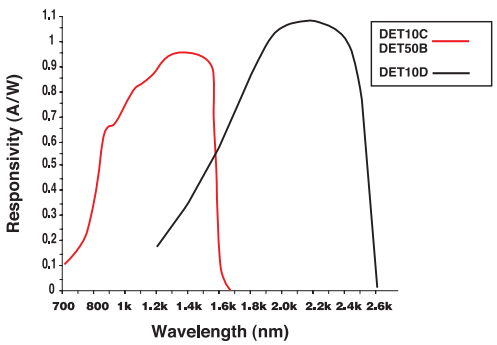
The new DET package uses a thin profile, essential for use in tight spaces. All connections and controls have been moved away from the light path. Each DET housing includes a detachable 1" Optic Mount (SM1T1) for installing Neutral Density Filters, spectral filters, and lenses. The optical head is fully compatible with Thorlabs SM1-series and SM05-series assemblies. Also available are fiber optic adapters for use with connectorized fiber.

Operating Circuit



Typical Spectral Responsivity





ITEM#	METRIC ITEM#	$	£	€	¥	TYPE	NEP[1] (W/√Hz)	RISE TIME	ACTIVE AREA	SPECTRAL RANGE
DET25K	DET25K/M	$ 185.00	£ 138.75	€ 194,25	¥ 31,450	GaP	1 x 10^{-14}	1/140ns[2]	6.25mm² (2.5 x 2.5mm)	150-550nm
DET36A	DET36A/M	$ 98.00	£ 73.50	€ 102,90	¥ 16,660	Si	1.2 x 10^{-14}	20ns	13mm² (3.6 x 3.6mm)	350-1100nm
DET10A	DET10A/M	$ 129.00	£ 96.75	€ 135,45	¥ 21,930	Si	5 x 10^{-14}	<1ns	0.8mm² (Ø1mm)	200-1100nm
DET100A	DET100A/M	$ 139.00	£ 104.25	€ 145,95	¥ 23,630	Si	5.5 x 10^{-14}	45ns	100mm² (10 x 10mm)	350-1100nm
DET50B	DET50B/M	$ 325.00	£ 243.75	€ 341,25	¥ 55,250	Ge	4 x 10^{-12}	220ns	19.6mm² (Ø5.0mm)	800-1800nm
DET10C	DET10C/M	$ 269.00	£ 201.75	€ 282,45	¥ 45,730	InGaAs	1 x 10^{-14}	5ns	0.8mm² (Ø1.0mm)	800-1800nm
DET10D	DET10D/M	$ 449.00	£ 336.75	€ 471,45	¥ 76,330	InGaAs	2 x 10^{-12}	23ns	0.8mm² (Ø1.0mm)	1200-2600nm

NEW, MID-IR

1) At peak response wavelength
2) Rise/fall time.
3) Linear operating range up to 1mW typ.

Terminators

See page 742 for full presentation.

T4119



50Ω TERMINATOR
Ideal termination for DET-Series detectors to achieve maximum bandwidth.

VT1



VARIABLE TERMINATOR
Adjust from 50Ω to 50kΩ in discrete steps. See our website at www.thorlabs.com for details.

ITEM#	$	£	€	¥	DESCRIPTION
T4119	$ 34.00	£ 25.50	€ 35,70	¥ 5,780	In-Line Terminator
VT1	$ 121.00	£ 90.75	€127,05	¥ 20,570	Variable Terminator

Replacement Batteries

T505



A23



The A23 battery is the replacement battery for the current DET series of photo detectors (see above). The T505 replaces batteries used in our older, discontinued detector series

ITEM#	$	£	€	¥	VOLTAGE	USED WITH
A23	$ 3.98	£ 2.98	€ 4,18	¥ 677	12V	DET Series
T505	$ 14.95	£11.21	€ 15,70	¥ 2,542	22.5V	DET1-SI & DET2-SI

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