



70788 Te Cooled HgCdZnTe Detector.

- Convenience of a complete system
- Optically immersed IR detector
- TE cooling for optimized performance
- 100 Hz to 100 kHz bandwidth

We took our most popular HgCdZnTe detector from page 6-77, and packaged it for use with systems.

EASE OF USE

Unpack the detector, connect it to your data acquisition or display system, plug it into the mains and start using. This all inclusive unit takes all the fuss out of working with high performance, cooled IR detectors.

The detector head contains a TE cooled detector element and a preamplifier. The power supply/controller box provides temperature control function and power for the preamplifier. We offer 110 and 230 V models.

PERFORMANCE

Monolithic optical immersion of these detectors provides unmatched performance. A 42° field of view (FOV) serves most applications well, and 1x1 mm optical size allows effective signal collection. Fig. 1 shows the typical responsivity of this detector system.

ORDERING INFORMATION

Wavelength Range* (μm)	Detector Size (mm)	Bandwidth	115 V Operation		230 V Operation	
			Model No.	Price (\$)	Model No.	Price (\$)
2 to 6	1 x 1	100 Hz to 100 kHz	70788	\$ 5,850.00	70789	\$ 5,850.00

* Other wavelength ranges (2 - 4 μm to 2 - 12 μm) are available; contact an Applications Engineer for details.

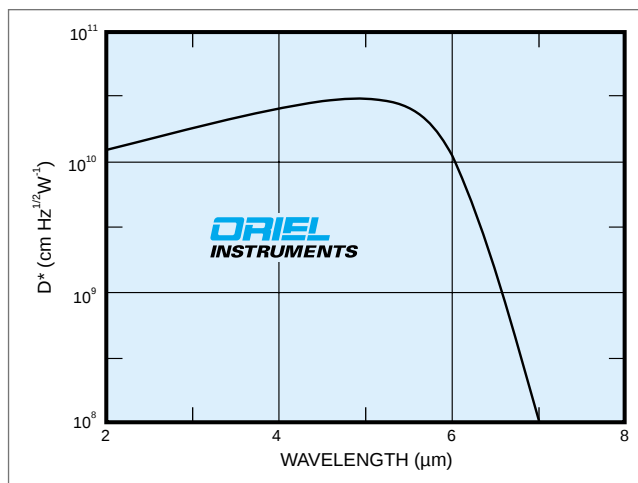


Fig. 1 Responsivity of 70788/9 HgCdZnTe Detectors.

DETECTOR SYSTEMS

We offer two TE Cooled HgCdZnTe detector systems. The difference is the power. The 70788 is the choice for 115 V operation, the 70789 is for 230 V. We can also package any of the 70754 to 70762 detectors (page 6-77) into the same type of systems. Contact an Oriel Applications Engineer for price and delivery information.

Both detectors include:

- TE Cooled HgCdZnTe detector element
- Detector housing with built-in preamplifier
- Power supply and temperature controller
- 6 ft (1.8 m) long BNC cable

MOUNTING

The detector housings have a 1.5 Inch Series female flange for flange mounting, and M6 and 1/4-20 tapped holes for rod mounting.