

InSb/HgCdTe 2-Color

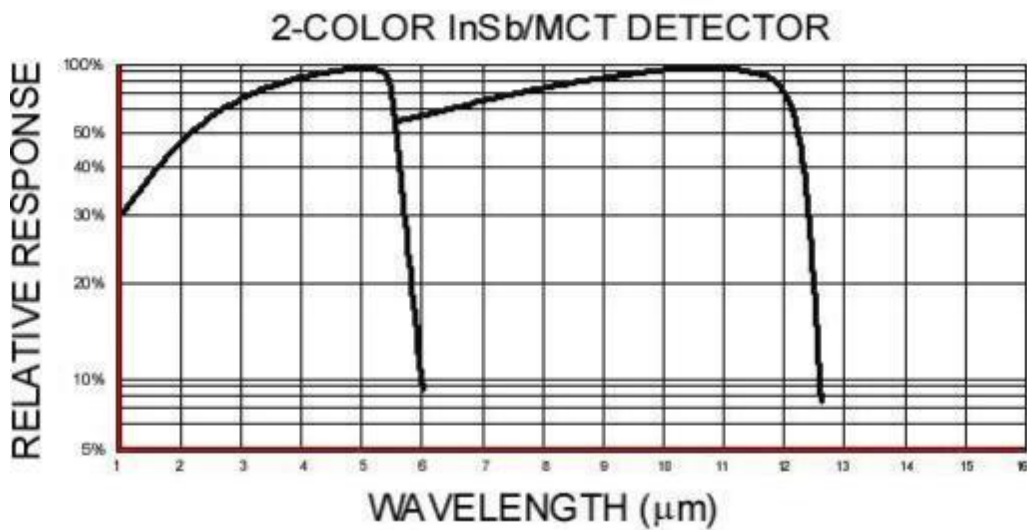
TECHNICAL DATA & INFORMATION

InfraRed Associates, Inc. offers InSb/HgCdTe 2-color infrared detectors for both commercial and military applications. These detectors are constructed to respond to different but adjacent regions of the infrared spectrum. One element has a short wavelength response and the other element responds to longer wavelength radiation.

Our unique construction permits both elements to be at the same focal point. The InSb/HgCdTe two-color detector has an InSb element responding from 1 μ m to 5.5 μ m and the HgCdTe element to radiation from 5.5 μ m to 12.5 μ m. The HgCdTe element can be tailored to extend its long wavelength response to beyond 25 μ m. Custom configurations to customer specifications are available. Contact us to discuss your specific requirements.

Typical Applications:

- Radiometry
- Thermal Imaging
- Background Discrimination
- FTIR Spectroscopy
- IR Microscopy



Standard InSb/HgCdTe 2-color infrared detectors

Model Number	FOV=60°, InSb ($\lambda_{pk}, 1000, 1$), HgCdTe ($\lambda_{pk}, 10000, 1$)					Std. Pkg	Std. Window
	Active Area Element (mm)	Wavelength Response (20% λ_{co}) (μm)	D* (cmHz ^{1/2} /W-1)	Responsivity	Operating Temp. (K)		
2C-.25 InSb HgCdTe	Ø0.25/0.25×0.25 0.25×0.25	1-5.5 5.5-12.5	≥1.0E11 ≥3.0E10	>3 A/W >5000V/W	77	MSL-8 MSL-12 Or MDL-8 MDL-12	ZnSe (2-14mm)
2C-.5 InSb HgCdTe	Ø0.5/0.5×0.5 0.5 X 0.5		≥1.0E11 ≥3.0E10	>3 A/W >3000V/W			
2C-1 InSb HgCdTe	Ø1/1.0×1.0 1.0 X 1.0		≥1.0E11 ≥3.0E10	>3 A/W >2000V/W			
2C-2 InSb HgCdTe	Ø2/2.0×2.0 2.0 X 2.0		≥1.0E11 ≥2.0E10	>3 A/W >1000V/W			
MSL-8 Side Looking Metal Dewar---8 Hour Hold Time MSL-12 Side Looking Metal Dewar---12 Hour Hold Time							