

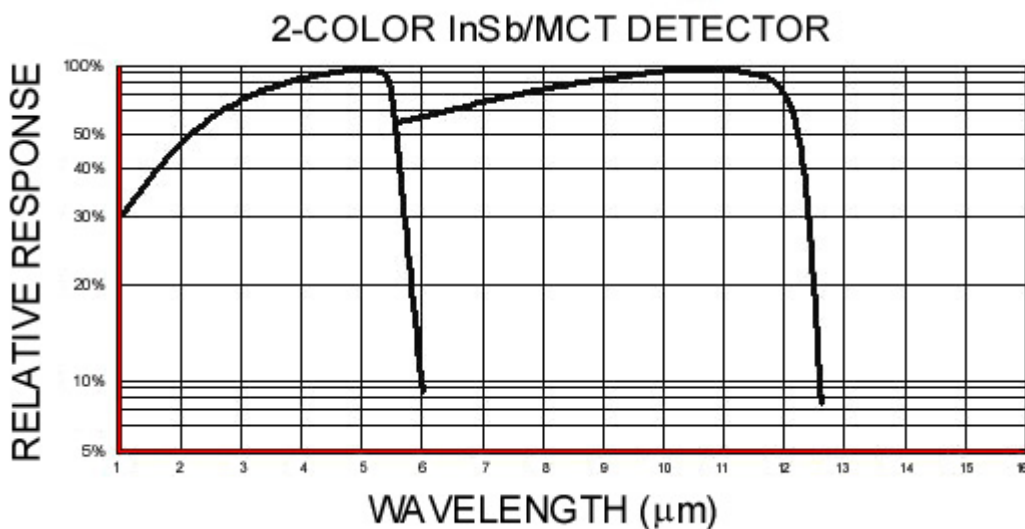
InSb/HgCdTe 2-Color

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.

- Typical Applications:
- Radiometry
 - Thermal Imaging
 - Background Discrimination
 - FTIR Spectroscopy
 - IR Microscopy

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 1μm to 5.5μm and the HgCdTe element to radiation from 5.5μm to 12.5μm. The HgCdTe element can be tailored to extend its long wavelength response to beyond 25mm. Custom configurations to customer specifications are available. [Contact](#) us to discuss your specific requirements.



Standard InSb/HgCdTe 2-color infrared detectors

Model Number	FOV=60°, InSb (λpk,1000,1), HgCdTe (λpk,10000,1)				Operating Temp. (K)	Std. Pkg.	Std. Window
	Active Area Element (mm)	Wavelength Response (20% λco) (μm)	D* (cmHz ^{1/2} W ⁻¹)	Responsivity			
2C-.25 InSb HgCdTe	00.25/0.25x0.25 0.25x0.25	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 (2-14μm)
2C-.5 InSb HgCdTe	00.5/0.5x0.5 0.5x0.5		≥1.0E11 ≥3.0E10	≥ 3 A/W ≥3000V/W			
2C- 1 InSb HgCdTe	01/ 1.0x1.0 1.0x1.0		≥ 1.0E11 ≥ 3.0E10	≥ 3 A/W ≥2000V/W			
2C- 2 InSb HgCdTe	02/ 2.0x2.0 2.0x2.0		≥ 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

