

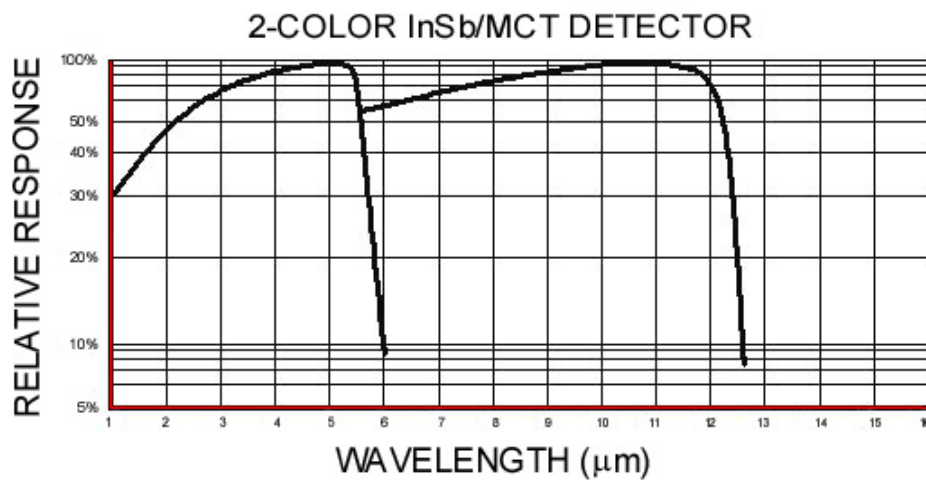
InSb/HgCdTe 2-Color

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 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.



Standard InSb/HgCdTe 2-color infrared detectors

del Number	FOV=60°, InSb (λpk,1000,1), HgCdTe (λpk,10000,1)					Std. Pkg.	Std. Window
	Active Area Element (mm)	Wavelength Response (20% λco) (μm)	D* (cmHz ^{1/2} W ⁻¹)	Responsivity	Operating Temp. (K)		
2C-.25 InSb HgCdTe	q0.25/0.25x0.25 0.25x0.25	1- 5.5 5.5-12.5	≥1.0E11 ≥ 3.0E10	≥ 3 A/W ≥4000V/W	77	MSL-8 MSL-12	ZnSe (2-14mm)
2C-.5 InSb HgCdTe	q0.5/0.5x0.5 0.5x0.5		≥1.0E11 ≥ 3.0E10	≥ 3 A/W ≥2500V/W		or	
2C- 1 InSb HgCdTe	q1/ 1.0x1.0 1.0x1.0		≥ 1.0E11 ≥ 3.0E10	≥ 3 A/W ≥1000V/W		MDL-8	
2C- 2 InSb HgCdTe	q2/ 2.0x2.0 2.0x2.0		≥ 1.0E11 ≥ 2.0E10	≥ 3 A/W ≥250V/W		MDL-12	
MSL-8 Side Looking Metal Dewar---8 Hour Hold Time					MSL-12 Side Looking Metal Dewar---12 Hour Hold Time		
MDL-8 Down Looking Metal Dewar---8 Hour Hold Time					MDL-12 Down Looking Metal Dewar---12 Hour Hold Time		