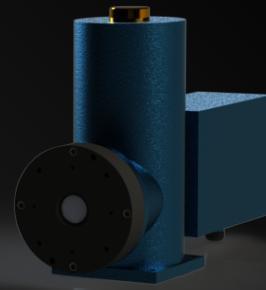


2DMCT

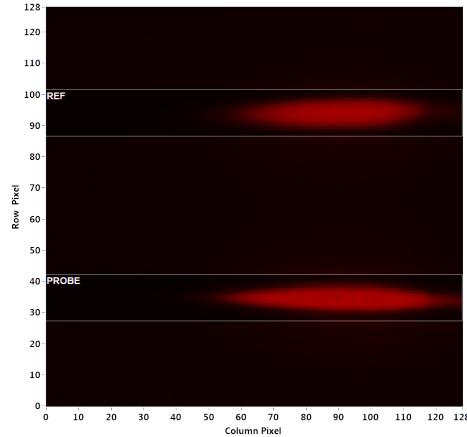
NEXT-GENERATION MID-IR DETECTOR



2DMCT is a next-generation mercury cadmium telluride (MCT) detector for the mid-IR. Featuring 128 rows of 128 pixels, high sensitivity and very low noise electronics.

CAPABILITIES & FEATURES

- 16,384 High quality MCT pixels
- Very low dark noise
- Dewar temperature readout
- Electronics for QuickShape rapid-scanning
- Control software & LabVIEW™ drivers



APPLICATIONS

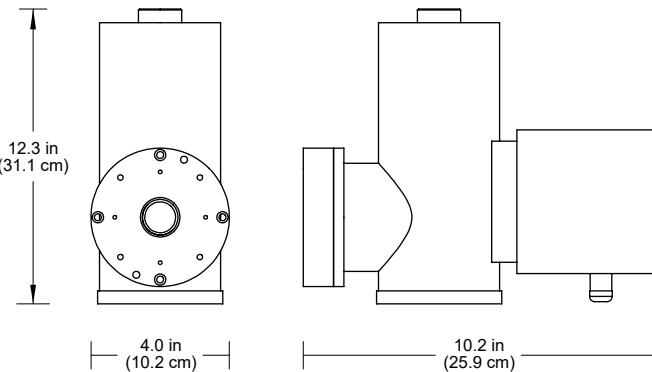
- Transient IR Spectroscopy
- 2D IR Spectroscopy
- Mid-IR Imaging
- 2D IR Imaging

INCLUDES

- Detector with built-in digital electronics
- Frame grabber
- User Manual
- LabView™ Control VIs
- QuickControl Software Package

ADD-ONS

- Monochromator with matched gratings and mounting hardware
- External channel detection

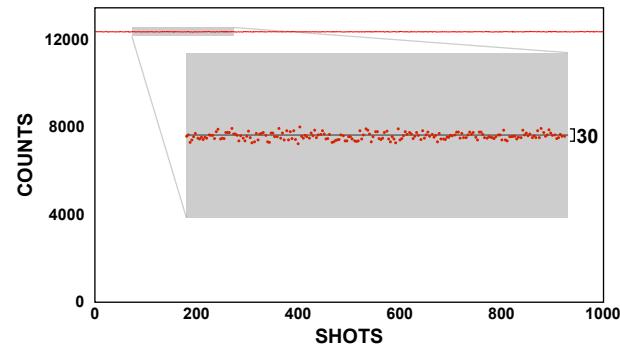


SPECIFICATIONS

Pixels	128x128 or 64x64
Spectral Range	2 - 12.3 μ m
Pixel Size	40 x 40 μ m
Max. Full Frame Rate	> 1.5 kHz
Max. Windowed Frame Rate	> 4 kHz (contact PhaseTech about higher frame rates)
Specific Detectivity (D*)	4×10^{11} cm Hz ^{1/2} W ⁻¹
Vertical Resolution	14-bit
Dynamic Range	~13,000:1
Typical Dark Noise (1 σ)*	< 10 counts over 1000 shots
Approximate Size	8.5 x 4 x 10.2 in (21.6 x 10.2 x 25.9 cm)

* Vertical averaging over multiple pixels reduces noise even further!

DARK NOISE



Also check out the **JACKHAMMER**
our high rep rate MCT detector