



SurveyIR IAC-580

The SurveyIR IAC-580 is a mid-wave infrared camera that incorporates Critical Imaging's patented Image Clear™ cold shielding technology to provide optimal imagery from the detector. Equipped with the SBF-180 Indium Antimonide Focal Plane Array with high quantum efficiency ($\eta > 0.85$), the IAC-580 provides high thermal sensitivity from its fast f/2.3 focal ratio. Packaged in a ventilated aluminum enclosure, the IAC-580 camera is designed for instrumentation applications for optimum performance in laboratory, light industrial or office environments. Standard bayonet mount is compatible with a range of lenses from Critical Imaging or others. May be customized for custom spectral ranges or focal ratios.

- ◆ MWIR 1-5.4 micron InSb Focal Plane Array
- ◆ 320 x 256 detector format
- ◆ Closed cycle cryogenic cooler - **no LN₂**
- ◆ Standard bayonet lens mount
- ◆ High performance f/2.3 cold shield - custom cold shields available
- ◆ Standard 3-5 micron cold filter or custom cold filters optional

Summary Specifications	
Detector Focal Plane Array	SBF-180 MWIR
Image Format	Quarter-VGA 320x240
Sensitivity, Spectral Range	<30mK MRT @ f/2.3, 1-5.4 microns filtered to 3-5 microns
Dynamic Range	>80 dB
Calibration	Built-in dual temperature calibration source
Detector Operational Temperature	77K using closed cycle Stirling cooler
Sensitivity Ranges	8 NUC ranges available
Mechanical	5" W x 6" H x 9" L, >7 lbs without lens
Encapsulation, humidity	IP-20B, 0-95% HR, non-condensing
Operational Temperature	-20° to 60° C
Warranty	1 year
Mounting	1/4-20 tripod mount
Command	RS-232, optional Ethernet - control GUI
Cooler MBTF	8000 hours
Lens Options	25, 50 and 100mm f/2.3 lenses for 25° to 6.5° HFOV

Contact:

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