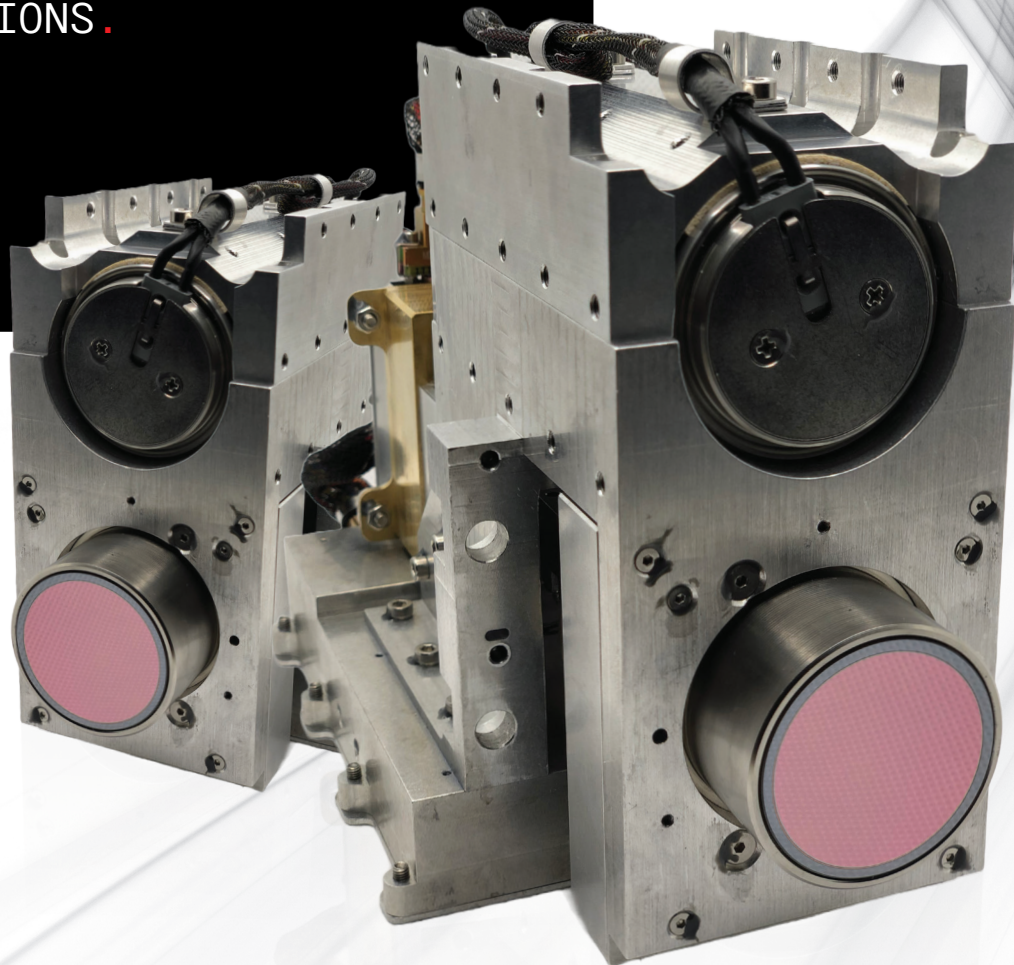
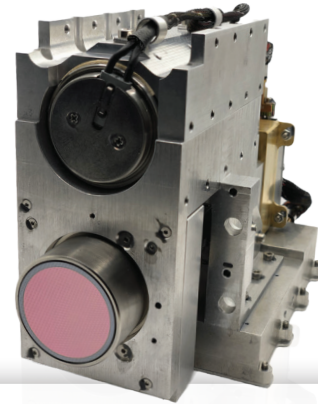


HYPERION-IR

SPACE QUALIFIED (TRL-8)
MIDWAVE IR (MWIR)
CAMERA FOR LOW-COST
SPACE SATELLITE
MISSIONS.



Hyperion-IR is a cryo-cooled MWIR camera platform developed for fast-schedule and low-cost space missions. The camera is configurable for a variety of applications, such as a push broom scanner, a TDI scanner, and a stare and step payload. Customization for SWIR, MWIR and LWIR applications are also available.



FEATURES

- Complete MWIR payload sub-system with dewar, cryo-cooler, drive electronics and processing
- Verified to NASA qualification launch loads, radiation tolerance, vacuum compatibility, and reliability
- Push broom line scan, TDI and staring area scan options
- Line scan mode up to 10kHz line rate
- TDI mode from 1 to 80 lines

APPLICATIONS

- High altitude remote sensing
- Security and Surveillance

VERSATILITY

- Available as line scan, TDI or staring area scan sensor
- Adaptable for spacecraft installation
- Various lens/telescope options

SPECIFICATIONS

Sensor	3-5 μ m cryo-cooled MWIR
Sensor Pixel Size	10 μ m to 15 μ m
Frame Rate	Up to 100Hz (>10KHz line rate)
Array Formats	2Kx16 or 1312x16 line scan / TDI, 2K x 1.5K, and 1280x720
Digital Output Format	12-bit to 16-bit
F#	f/2 to f/5.5
Size without Lens	8.6" x 5.4" x 5.8"
Weight Without lens	<3 kg
Lens/Telescope	Customizable
Option	
Operating temperature	-20°C to 50°C (77K detector temp.)
Storage temperature	-30°C to 60°C
Power	Steady state 5W-15W, Cool down 20-35W depending on modes
Programmability	Gain modes, integration time, windowing, readout rate and data format

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SAAZ reserves the right to change the specification without prior notice.
For updated specifications contact us.

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HYPERION- 1 & 5

ULTRA-HIGH RESOLUTION
REMOTE SENSING SOLUTIONS.

1.3 & 5.2 gigapixel cameras
for wide area high resolution
remote sensing.



Hyperion is an ultra-high resolution visible and near-IR camera platform developed for fast-schedule and low-cost remote sensing missions. Various package options are available for airborne and space platforms. The camera is configurable for a variety of applications, such as a push broom scanner, a TDI scanner, and a stare and step payload.



FEATURES

- Visible Range (400nm-800nm)
- High resolution: 1.3 Gigapixels
- Ultra-high-resolution option with quad 1.3 x 4 = 5.2 Gigapixels
- Compact size (<18in3)
- Package handles >50W heat load
- Built-in image processing
- Onboard storage
- Low power consumption

APPLICATIONS

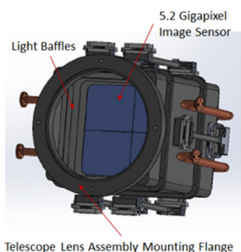
- High altitude remote sensing
- Security and Surveillance

VERSATILITY

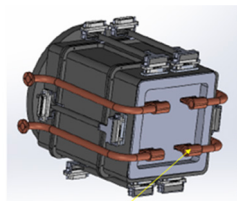
- Available as single or quad module
- Adaptable for spacecraft installation
- Various lens/telescope options

SPECIFICATIONS

Sensor	CMOS RGB Full Array
Sensor Pixel Size	1µm to 1.4µm
Frame Rate	<1Hz to >30Hz options
Array Formats	37 Kpixel x 35 Kpixel (R x C)
Detector Type	Silicon
Digital Output Format	8-bit, 10-bit, or 12-bit
F#	Customizable from f/2 to f/10
Size without Lens	75mm x 75mm x 51mm
Size with baseline lens attachment	160mm x 88mm x 88mm
Weight Without lens	<1 kg
Weight With Baseline lens	<3.5 kg
Lens Option	Customizable
Operating temperature	-30°C to 50°C
Storage temperature	-55°C to 105°C



HYPERION FRONT



HYPERION BACK

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