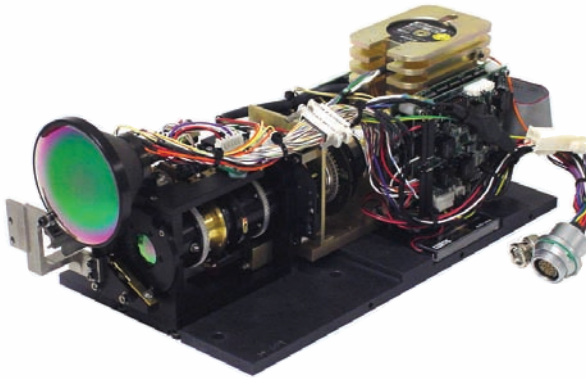


Tri-Field Thermal Camera Module

Security/Surveillance



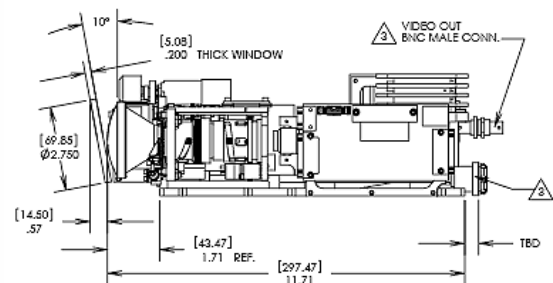
The Axsys Tri-Field Thermal Camera Module is a mid-wave thermal imager designed for easy installation into user based security and surveillance equipment. With horizontal fields of view discretely variable in three steps from 31.5° to 2.7°, it provides wide angle situational awareness, as well as long range target recognition with quick Field of View change.

Operating in the 3–5 μ m spectral region, which is best for marine and high humidity environments, the Tri-Field Module utilizes advanced cooled InSb photodetector technology in a 320 x 256, 30 μ m pitch focal plane array, or optionally a 640 x 512, 15 μ m pitch focal plane array for maximum resolution. The Module is compact and easily integrated into an existing system via an RS232/RS422 interface, handheld pendant, or rack mounted controller. It offers motorized focus and field of view switch and Axsys' user-friendly plug and play operation.

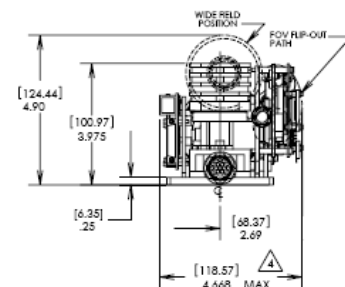
Axsys provides leading edge IR equipment to the security and surveillance sector. Axsys' proprietary optical designs, state-of-the-art laboratories, and vertically integrated manufacturing capabilities ensure maximum performance and dependability.

Mid-Wave Thermal Imaging Camera Module Features Include:

- Auto Focus
- Compact size
- Remotely Controlled
- High Sensitivity Mode
- Tri-Field of View (17/60/200mm)
- Cooled 3–5 μ m IR Detector Technology
- 31.5°, 9.1°, and 2.7° Fields of View
- Easily Integrated into User-Based Systems



Tri-Field Thermal Camera Module Side View



Tri-Field Thermal Camera Module Rear View



Tri-Field Thermal Camera Module System Specifications

Axsys Part Number	23048.
Video Format	CCIR601 NTSC or PAL.
Serial Interface	RS-232/RS-422.
Power Requirements	10–28 VDC input.
Environmental	System must be housed in protective enclosure. Operating Temperature Range: -10°C to +60°C. Non-Operating Temperature Range: -40°C to +70°C.
Controls	Controls available on a hand held pendant, on a rack mounted controller, or through a PC via an RS-232/422 link.
NETD	< 40mK.
Mounting	See Axsys Dwg. No. 23048.
Weight	~5.1 lbs. (2.3kg).
Length	11.7" (29.7cm).

Sensor Specifications

Tri-Field Model Detector	320 x 256 InSb, FPA 30µm pitch.
Tri-Field-S Model Detector	640 x 512 InSb, FPA 15µm pitch (add "Z" suffix to part number; see table below).
Spectral Band	3–5µm.
Detector MTBF	> 7,500 hours.

Optical Characteristics

Spectral Range	3–5µm.
Lens Type	Tri-Field of View, 17/60/200mm.
f/#	4.
Lens Features	Motorized remote operation. Auto and manual focus adjust. Tri Field of View.
Field of View	31.5° x 23.9° (Wide), 9.1° x 6.9° (Mid), 2.7° x 2.1° (Narrow).

Construction of Axsys Part Numbers

Note: Construct Part Numbers beginning with base code "M" and ending with "P"; add other desired options alphabetically.
Example: 23048MB4ZP

Code	Feature Referenced Options	Example (sample part number plus code)
Bn	Baud Rate (Default = 9600)	23048B3
B1	4800	
B3	19200	
B4	38400	
B5	57600	
B6	115200	
D	Digital Video Option	23048D
M	22-Pin D38999 Series Connector Interface	23048M
N	No BNC Video Output	23048N
P	PAL Video Format	23048P
Z	640 X 480 Sensor Option	23048Z



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Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice. Export is subject to US Government regulations.



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