

## ExtremeX



The Axsys ExtremeX is a commanding solution to the long-range thermal imaging requirements of the security and surveillance sector. A rugged camera with extensive detection capabilities, the ExtremeX combines impressive performance with Axsys reliability and ease of use.

The ExtremeX has the most powerful detection capacity of Axsys' thermal imagers. It provides man sized target detection at nearly 17km in good conditions, with identification at 3km, as well as the ability to alternate rapidly between three focal lengths (250, 500, and 1000mm). Operating in the 3-5 $\mu$ m spectral region, the best choice for marine and high humidity environments, the ExtremeX incorporates advanced cooled photodetector technology in a 320 x 256 InSb, 30 $\mu$ m pitch focal plane array. Axsys' proprietary environmentally sealed, nitrogen backfilled enclosure ensures simple secure installation and stability over variable temperatures and conditions. Remotely controlled and user friendly, the ExtremeX employs plug and play operation.

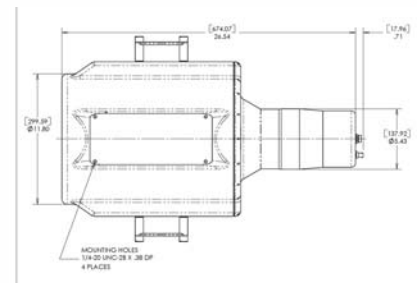
Axsys provides leading-edge IR equipment to the security and surveillance sector. Axsys' proprietary optical designs, state-of-the-art laboratories, and vertically integrated manufacturing capabilities ensure maximum performance and dependability.

## Security/Surveillance

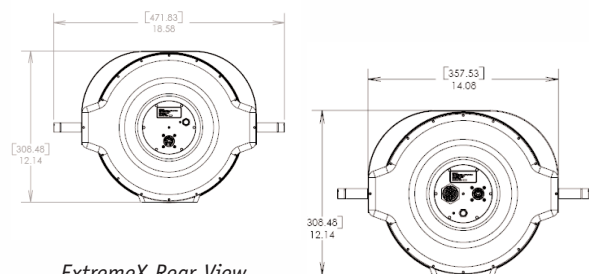
### Long-Range Thermal Imaging Camera

#### Features Include:

- Auto Focus
- High Sensitivity Mode
- Dry Nitrogen Backfilled
- Remote Control Capability
- 2.2°, 1.1° and .55° Fields of View
- Cooled 3-5 $\mu$ m IR Detector Technology
- Tri Field of View (250, 500 & 1000mm)
- Greatest Detection Range on the Market:  
Man > 16.7km, Vehicle > 19.5km



ExtremeX Bottom View



ExtremeX Rear View

ExtremeX Rear View, Digital



## ExtremeX System Specifications

<b>Axsys Part Number</b>	23047M/23047MD
<b>Video Format</b>	CCIR601 NTSC or PAL-M, or optional 12-bit parallel digital output (PN 23047MD)
<b>Frame Rate</b>	60 Hz NTSC, 50 Hz PAL
<b>Serial Interface</b>	RS-232 or RS-422
<b>Power Requirements</b>	11-16 VDC/ 18 watts typical @ 25°C
<b>Environmental</b>	Unit sealed and backfilled with dry nitrogen, rated IP67 Front Element Defroster Operating Temperature Range: -20°C to +50°C Non-Operating Temperature Range: -40°C to +70°C
<b>Controls</b>	Controls available on a hand held pendant, on a rack mounted controller, or through a PC via an RS-232/422 link.
<b>NETD</b>	≤ 40mK
<b>Mounting</b>	¼ -20 Tripod Interface Axsys AntiVibration Mount (optional)
<b>Weight</b>	~38 lbs. (17.3kg)
<b>Length</b>	26.54" (67.41cm)

## Sensor Specifications

<b>Detector</b>	320 x 256 InSb FPA 30µm pitch, usable format 320 x 240
<b>Spectral Band</b>	3-5µm
<b>Detector MTBF</b>	≥ 7,500 hours



## Optical Characteristics

<b>Spectral Range</b>	3-5µm
<b>Lens Type</b>	Tri-Field of View, 250mm/500mm/1000mm
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<b>Lens Features</b>	Motorized remote operation Auto and manual focus adjust Tri FOV
<b>Field of View</b>	2.2° x 1.65° (Wide), 1.10° x 0.83° Mid, 0.55° x 0.41° (Narrow)

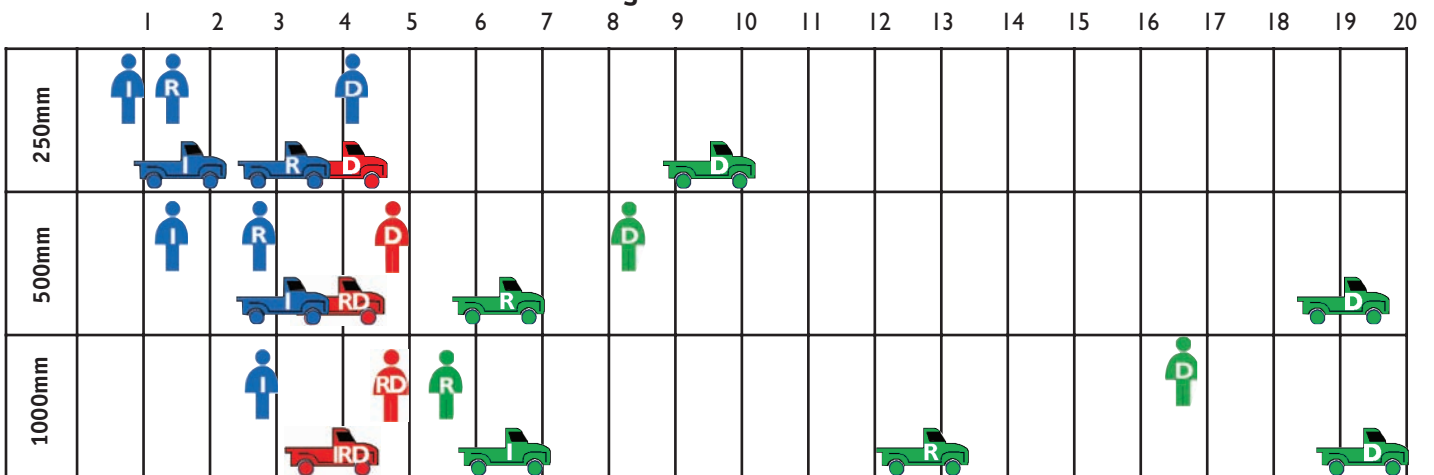
## Range Performance

**D**= Detection  
**R**= Recognition  
**I** = Identification

**GREEN** = Good Conditions  
**RED** = Poor Conditions  
**BLUE** = Same in all conditions

 = Target Size (1 x 1m)  
 = Target Size (2.3 x 2.3m)

### Range in Kilometers



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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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