

# CAM\IR 3000-100-250/500Z



## Features:

- Nitrogen Backfilled
- Mid-Wave Spectral Operation
- Environmentally Sealed
- Remote Control Capability
- Up to 10 Zoom Presets (100–500mm)
- Auto Focus
- Zoom Stable over Temperature
- Plug and Play Operation

The CAM\IR 3000-100-250/500Z continuous zoom thermal imager is the system of choice for security and surveillance. With outstanding long-range target detection and recognition, it combines exceptional performance with reliability and ease of use. The CAM\IR 3000-100-250/500Z offers an extraordinarily clear longrange thermal image with the convenience of continuous zoom from 100 to 500mm. Its horizontal field of view extends smoothly from 1.10° to 5.5°, and it enables man sized target detection at ranges in excess of 8km in good conditions. The CAM\IR 3000-100-250/500Z utilizes advanced cooled InSb photodetection technology in a 320 x 256, 30µm pitch focal plane array and operates in the 3-5µm spectral region — the best choice for marine and high humidity environments. Self-protected in an environmentally sealed, nitrogen backfilled enclosure for simple secure installation, it is stable over variable temperatures and conditions. It employs remotely controlled and userfriendly plug and play operation.

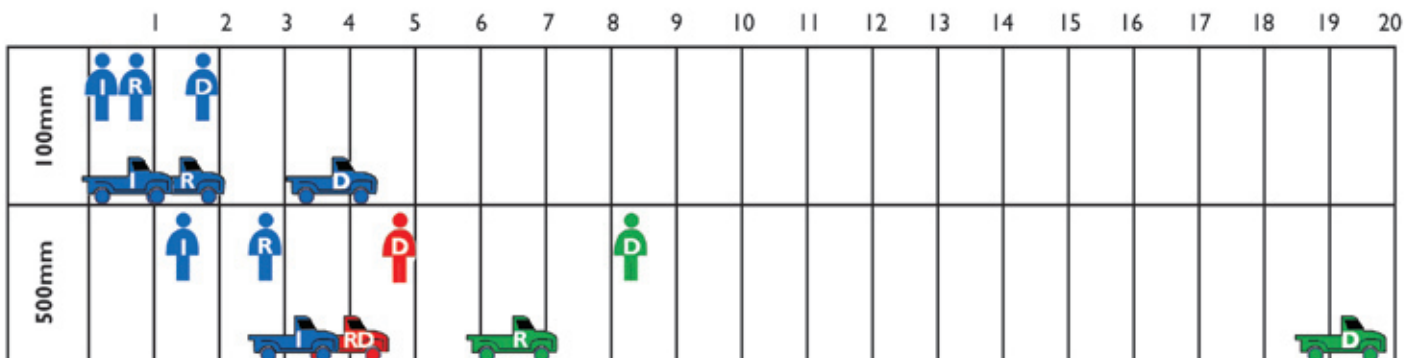
## Range Performance

**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



[www.infrared.com](http://www.infrared.com)

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## System Specifications

<b>Video Format</b>	CCIR601 NTSC or PAL-M
<b>Frame Rate</b>	60 Hz NTSC, 50Hz PAL
<b>Serial Interface</b>	RS-232 or RS-422
<b>Power Requirements</b>	11-16 V DC / 18 watts typical @ 25°C
<b>Environmentals</b>	Unit is sealed and backfilled with dry nitrogen. Front Element Defroster, rated IP67 Operating Temp. Range: -20°C to +50°C Non-Operating Temp. Range: -40°C to +70°C
<b>Camera Controls</b>	Controls are available on a hand held pendant, rack mounted controller, or through a PC via an RS232/RS422 link.
<b>NEDT</b>	< 40mK
<b>Mounting</b>	¼ -20 Tripod interface

## Sensor Specifications

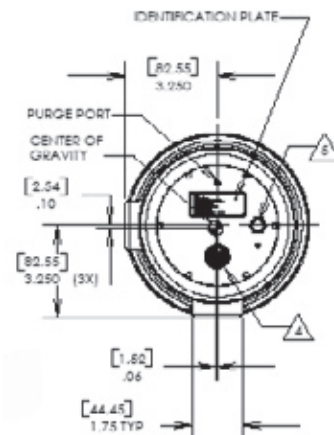
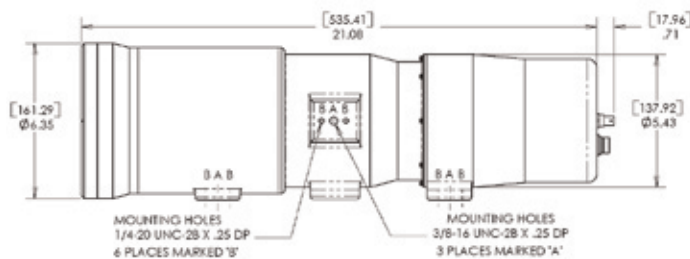
<b>Detector</b>	320 x 256 InSb FPA, 30µ pitch, usable format 320 x 240
<b>Spectral Band</b>	3-5µm
<b>Detector MTBF</b>	7,500 hours

## Optical Characteristics

<b>Type</b>	Continuous Zoom, 100-500mm, with up to 10 user defined presets
<b>F-number</b>	4
<b>Spectral Range</b>	3-5µm
<b>Field of View</b>	(NFOV- WFOV) 1.10° x .83°- 5.5° x 4.1°
<b>Weight</b>	~ 17 pounds (7.7kg)

## System Integration:

**Pan and Tilt, Wireless, Fibre Optic**



Model numbers and specifications are subject to change without notice.