



## CAM\IR 2500-75



### APPLICATIONS:

- HAZMAT Conditions, which require safe, stand off distance
- Wildland Fire fighting, fire spread monitoring
- Command post observation
- Aerial appliances for progression of fire spread
- Marine applications for fire suppression and search

### The CAM\IR 2500-75 Features:

- Uncooled Sensor Technology
- Environmentally sealed housing
- Automatically Controlled Front Element Defroster
- Germanium Optical System
- User friendly, plug and play camera operation
- Remotely Controlled

The 2500 Series of Long Wave Uncooled Thermal Imagers offers unique advantages in compact all solution packages. The system utilizes its exterior case as an environmentally sealed housing, eliminating the need for additional enclosures. The system also has a built in front element defroster, which is automatically controlled. The all germanium optical system is designed to allow the uncooled sensor to operate at its maximum capability. The optical front element is protected with a diamond-like hard carbon coating designed for use in the harshest of environments, while the interior elements are coated with extremely high efficiency coatings increasing the overall transmission performance. The user friendly plug and play camera operation turns on with a working thermal picture, the first time and every time- without user intervention. The remote control capability permits ease of integration into any client-based system.

### Range Performance

D= Detection

R= Recognition

I= Identification

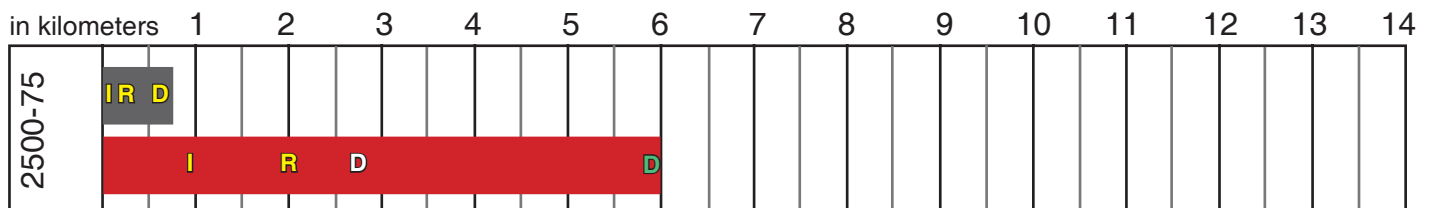
Green = Good Conditions

White= Poor Conditions

Yellow= Same in all conditions

■ = Man Sized Target (1x1m)

■ = Tank Sized Target (8x8m)



### System Specifications

<b>Video Format</b>	CCIR601 NTSC or PAL-M
<b>Frame Rate</b>	60 Hz STD
<b>Serial Interface</b>	RS-232 or RS-422
<b>Power Requirements</b>	4-12 V DC <5 watts typical @ steady state, 25°C
<b>Environmentals</b>	Unit is sealed and backfilled with dry nitrogen. Fully qualified to MIL-STD-810e, Front Element Defroster
<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>	< 120mK
<b>Mounting</b>	¼ -20 Tripod interface

### Sensor Specifications

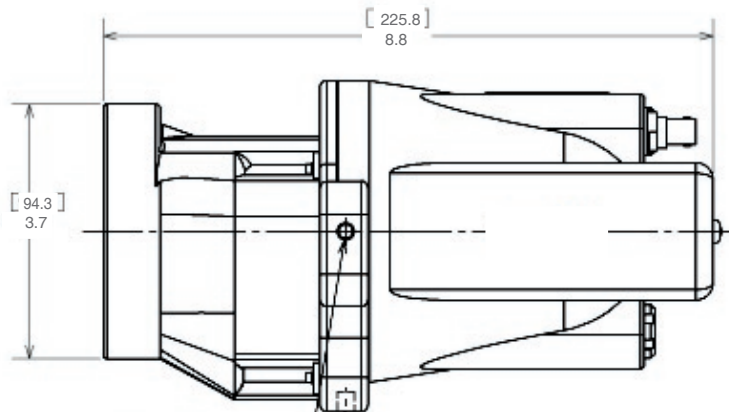
<b>Detector</b>	320 x 240 VOx Uncooled Microbolometer FPA, 51µ pitch
<b>Spectral Band</b>	7-14µm
<b>Detector MTBF</b>	>10,000 hours

### Optical Characteristics

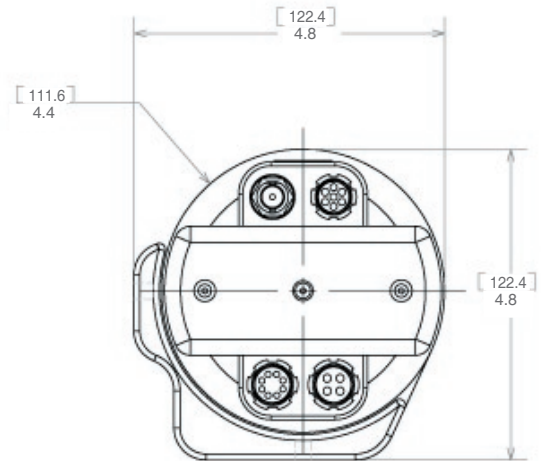
<b>Type</b>	Motorized Remote Focus Optical System
<b>F-number</b>	1
<b>Spectral Range</b>	7-14µm
<b>Field of View</b>	12.5 x 9.4 degrees
<b>Weight</b>	< 4.5 pounds

### System Integration:

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



Mounting Holes  
¼-20 UNC-2B x .25 Deep  
2 places 90° apart



Model numbers and specifications are subject to change without notice.