

# FieldPro 5x

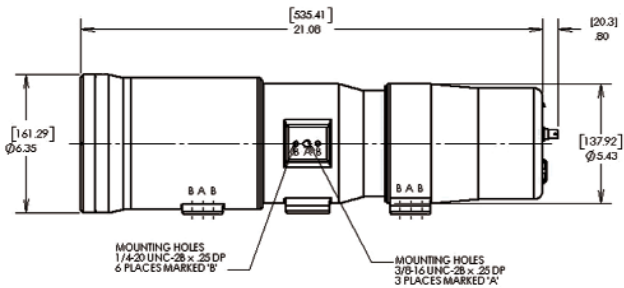


### Long Range Thermal Imaging Camera

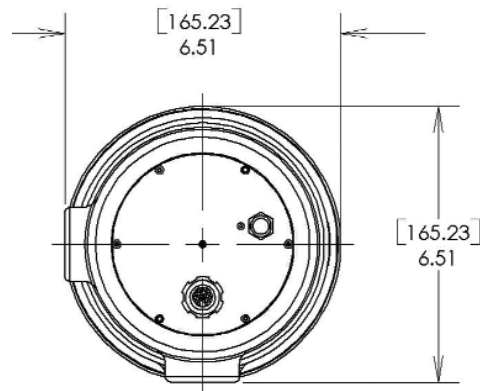
The DiOP FieldPro 5x continuous zoom thermal imager is the system of choice for security and surveillance requirements. With outstanding long-range target detection and recognition, the FieldPro 5x combines exceptional performance with DiOP reliability and ease of use.

DiOP's FieldPro 5x offers an extraordinarily clear long-range thermal image with the convenience of a continuous zoom. Its horizontal field of view extends smoothly from 1.10° to 5.5° with three preset positions, and it enables man sized target detection at ranges in excess of 7km in good conditions. The FieldPro 5x 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 DiOP's proprietary environmentally sealed, nitrogen backfilled enclosure for simple secure installation, it is stable over variable temperatures and conditions. The FieldPro 5x employs the remotely controlled and user-friendly plug and play operation for which DiOP Thermal Camera Systems are recognized.

Since 1976 DiOP has provided industry-leading equipment to the security/surveillance sector. DiOP's proprietary optical designs, state-of-the-art laboratories, and vertically integrated manufacturing capabilities ensure maximum performance and dependability. DiOP products guarantee a world-class solution to your thermal imaging needs.



**P/N 22863**



### Features Include:

- ◆ Nitrogen Backfilled
- ◆ Mid-Wave Spectral Operation
- ◆ Environmentally Sealed
- ◆ Remote Control Capability
- ◆ Three Continuous Zoom Presets
- ◆ Auto Focus
- ◆ Zoom Stable over Temperature
- ◆ Plug and Play Operation

## System Specifications

<b>DiOP Part Number</b>	22863
<b>Length</b>	21.08"
<b>Weight</b>	<15.5 pounds
<b>Video Format</b>	CCIR601 NTSC or PAL-M
<b>Frame Rate</b>	60 Hz
<b>Serial Interface</b>	RS-232 or RS-422
<b>Power Requirements</b>	11-16 V DC/ 24 watts typical @ 25°C
<b>Environmental</b>	Unit is sealed and backfilled with dry nitrogen. Fully qualified to MIL-STD- 810e, Front Element Defroster
Operating Temp. Range	-20°C to +50°C (outdoor components)
Non-Operating Temp Range	-40°C to +70°C (outdoor components)
<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>NETD</b>	< 40 mK
<b>Mounting</b>	¼ -20 Tripod Interface, DiOP AntiVibration Mount

## 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>Type</b>	Motorized Remote Focus and Motorized Field of View Optical System
<b>f/#</b>	4
<b>Spectral Range</b>	3-5µm
<b>Field of View</b>	Continuous Zoom, 100-500mm, with presets at 100, 250, 500mm (NFOV-WFOV) 1.10° x .83° to 5.5° x 4.1°

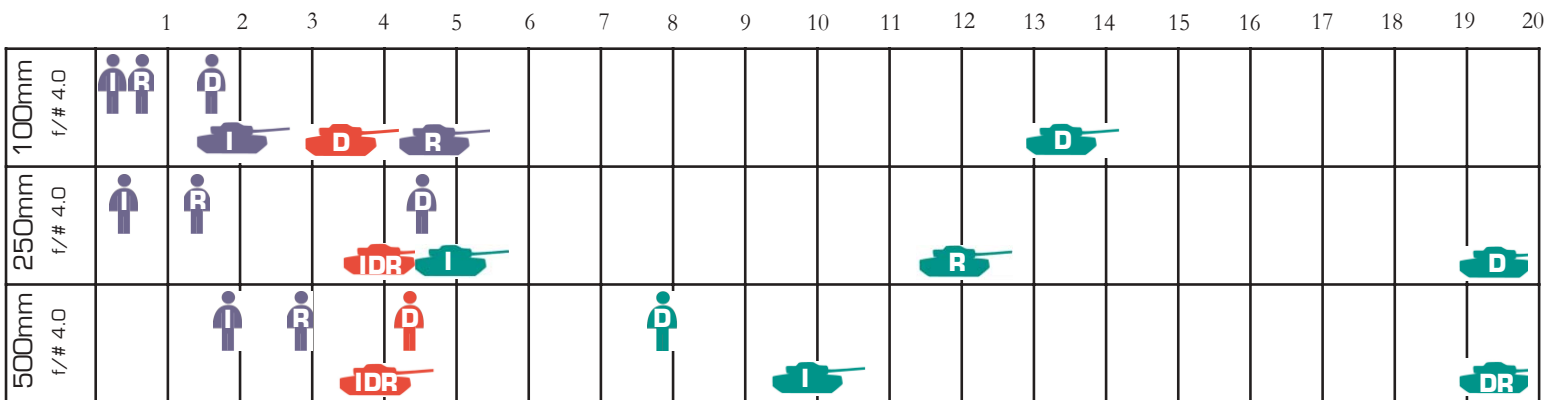
## Range Performance

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

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

 = Target Size (1x1m)  
 = Target Size (8x8m)

### Range in Kilometers



Call us at 603.898.1880 or visit our website  
[www.DiOP.com](http://www.DiOP.com) for more information!