

SENSPEX

APPLIED SCIENCE & TECHNOLOGY

FieldPro5X/5X-S

Long Range Thermal Imaging Camera



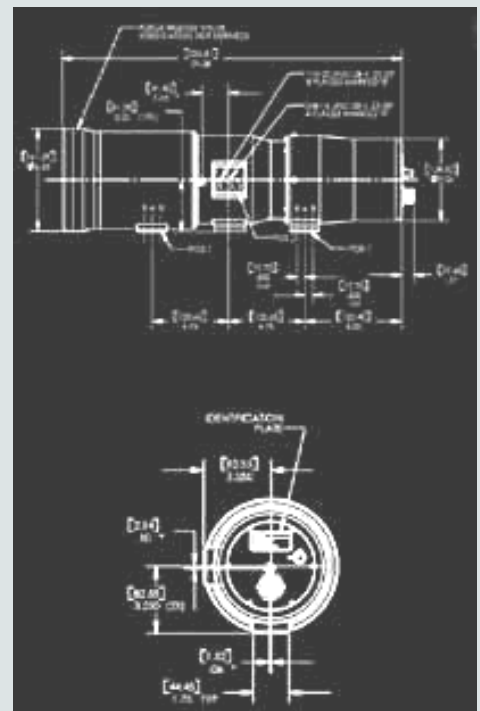
The FieldPro5X continuous zoom thermal imager is the system of choice for security and surveillance. With outstanding long range target detection and recognition, the FieldPro5X combines exceptional performance with reliability and ease of use.

The FieldPro5X offers an extraordinarily clear long range thermal image with the convenience of continuous zoom from 100 to 500mm. Its horizontal field of view extends smoothly from 5.5° to 1.1°. The FieldPro5X utilizes advanced cooled InSb photodetector technology in a 320 x 256, 30µm pitch focal plane array, or optionally a 640 x 512, 15µm pitch focal plane array for maximum resolution (FieldPro-S), and operates in the 3-5µm spectral region—the best choice for marine and high humidity environments. The proprietary environmentally sealed, dry nitrogen backfilled enclosure ensures simple secure installation and stability over variable temperature and conditions and negates the need for additional housings to protect the thermal camera system. The FieldPro5X employs remotely controlled and user-friendly plug and play operation.

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KEY FEATURES

- Auto and Manual Focus
- High Sensitivity Mode
- Dry Nitrogen Backfilled
- Environmentally Sealed
- Remote Control Capability
- 5X Continuous Optical Zoom
- Optional Digital Video Output
- Up to 10 User-Defined Zoom Presets
- 1.1° - 5.5° Continuous Field of View
- Cooled 3-5µm IR Detector Technology



FieldPro5X/5X-S

System Specifications

Part Number	23046M
Video Format	NTSC, PAL, or optional digital output
Serial Interface	RS-232/RS-422
Power Requirements	11-16 VDC, 18 Watts typical @ 25°C steady state (FieldPro5X) 10.5-36 VDC, 30 Watts typical @ 25°C steady state (FieldPro5X-S)
Environmental	Unit sealed and dry nitrogen backfilled Front Element Defroster Operating Temperature Range: -32°C to +60°C Non-Operating Temperature Range: -40°C to +70°C
Controls	Controls available on a handheld pendant or through a PC via an RS-232/422 link
Mounting	¼-20 Tripod Interface
Weight	<20 lbs. (9.1kg)
Length	<24" (61cm)

Sensor Specifications

FieldPro Detector	320 x 256 InSb FPA 30µm pitch
FieldPro-S Detector	640 x 512 InSb, FPA 15µm pitch (add "Z" suffix to part number; see table below)
Spectral Band	3-5µm

Optical Characteristics

Spectral Band	3-5µm
Lens Type	Continuous Zoom, 100-500mm, with up to 10 user-defined presets
f/#	4
Lens Features	Motorized remote operation Auto and manual focus adjust Zoom Field of View
Field of View	5.5° x 4.1° (Wide) to 1.1° x 0.8° (Narrow)

Construction of Part Numbers

Code	Featured Referenced Options	Example (part # plus code)
Bn	Baud Rate (Default = 9600)	23046MB3
B1	4800	
B3	19200	
B4	38400	
B5	57600	
B6	115200	
D	Digital Video Option	23046MD
K	Sun Shield	23046MK
N	No BNC Video Output	23046MN
P	PAL Video Format	23046MP
Vnn	Paint Version	23046MV4
Z	640 x 480 Sensor Option	23046MZ

*Note: To construct Part Numbers, start with base code, add other desired options alphabetically (excepting that "P" must be last), and then add kit designator.
Example: 23181F2H1ZP-600*

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Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice.
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