

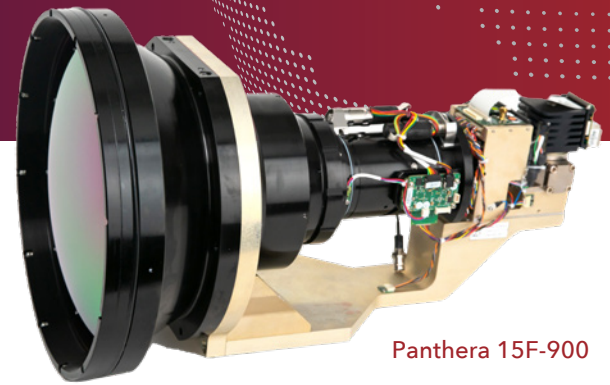
PANTHERA ● SUNDRA

MWIR

BY THE LEADER IN MWIR INFRARED SENSORS

HIGH DEFINITION LONG-RANGE INTEGRATED INFRARED SENSING SOLUTIONS (I2S2)

Our I2S2 Product Line is a range of options available to meet long-range thermal surveillance, leveraging our expertise in Infrared sensing materials. Solutions integrate a high definition Integrated Detector Dewar Cooler with a Mid-Wave Infrared Response (MWIR) coupled with advanced processing video electronics and a selection of continuous zoom optics ranging from 420mm to 1350mm.



Panthera 15F-900

BENEFITS

1280x1024 Format

Provides a high definition field of view compatible with commercial standards

Continuous Zoom Optics

Cost effective, high fidelity, high quality thermal optics providing user adjustable continuous field of views and automated focus functions

10 μ m or 15 μ m pixel

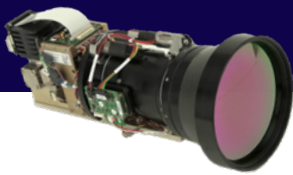
Enables lowest Instantaneous Field of View with commercial off the shelf available optics

Camlink and HD-SDI video output. Optional GiGE Standard video formats enable use of commercially available interfaces for streaming

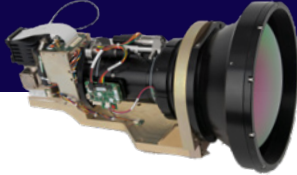
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SYSTEM FEATURES

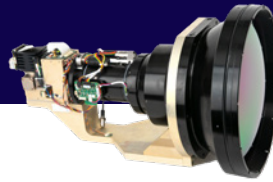
- Factory adjustable Frame Rates up to 100Hz Full Frame (Requires medium camlink or Fast GiGE Interface)
 - Multiple Automated Focus Capabilities
 - Image Polarity (White-Hot)
 - 1pt Calibration Flag
 - Cooler performance and operation monitoring (Optional)
 - HD-SDI video output provides Local Area Enhancement, Digital Zoom(2X/4X), Region of Interest, Color Palette, Brightness and Contrast Adjustments
- Inquire for other features



Panthera 15F-420



Panthera 15F-690



Panthera 15F-900



Sundra 7ZH-850



Sundra 7ZH-1350

	1280X1024, 10 μ m, F/4			1280X1024, 15 μ m, F/5.5	
Sensor Configurations	1280x1024, 10 μ m, MWIR InSb			1280x1024, 15 μ m, MWIR InSb	
F Number	F/4			F/5.5	
Spectral Band	3.6 μ m to 4.9 μ m			3.6 μ m to 4.9 μ m	
Camera Options	420mm Focal	690mm Focal	900mm Focal	850mm Focal	1350mm Focal
Continuous Zoom Range	35mm to 420mm	72mm to 690mm	90mm to 900mm	28mm to 850mm	45mm to 1350mm
Optical Design	In-Line			Folded	
Size (L) in x (W) in x (H) in	13.5 x 5.2 x 4.62	15.33 x 8.27 x 8.27	19.37 x 11.25 x 11.25	9.90 x 6.18 x 9.21	14.80 x 10.7 x 11.49
Weight (kg)	3.5	6.3	10	6.6	16
Video Output	HD-SDI 720p60Hz (1080p60 optional) Camlink or GiGE				
Bit Depth	14 bits NUC and BPR on Camlink and GiGE port				
	10 bits compressed on HD-SDI port				
Communication	Camlink CC2 or GiGE.RS 232 or RS-422 Optional				
HFOV (deg)	1.74	1.06	0.81	1.28	0.81
Ifov (μ rad)	24	15	11	18	11
Non-Uniformity Correction (NUC)	Up to 6 NUC Tables				
Operating Temperature	-40C to 71C			-40C to 71C	
Storage Temperature	-40C to 85C			-40C to 85C	
Power Supply	Single Power Supply +12V			Single Power Supply +24V	
Steady State Power Consumption (23C)	20W			24W	
Product Name	15F-420	15F-690	15F-900	7ZH-850	7ZH-1350
Reference ICD	1036-001	1040-001	1050-001	10005-001	1051-001

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