MWIR Short Range 18x Zoom Thermal Camera

The Short Range Continuous Zoom Thermal

Camera is the system of choice for all-weather security and surveillance. With outstanding target detection and recognition capabilities, the Short Range combines high-end performance with reliability and ease of use.

The Short Range delivers in day or night an extraordinarily clear thermal video with the convenience of a G5 designed and built continuous zoom infrared lens. Its horizontal field of view zooms smoothly from 32° to 1.8°. It enables man-sized target detection at ranges in excess of 10km in good conditions. The Short Range integrates advanced cooled detector technology has a 640 x 512 focal plane array that operates in the 3–5µm MWIR spectral region — the best choice for marine and high humidity environments. Environmentally sealed, dry nitrogen backfilled enclosure ensures operability and stability over variable temperatures and diverse weather conditions. The Short Range camera is remotely controllable via serial interface and Graphical User Interface. Applications: Vessel Traffic Surveillance, Border Protection, Critical Infrastructure Protection, Airport and Port Security

* Range Performance

D = Detection	50% Probability D / R / I
R = Recognition	Target 2 degree delta T vs background

Clear atmosphere / very low turbulence I = Identification Actual range performance will vary based on a number of conditions, including user experience, display size/quality, weather/atmospheric conditions, etc.

Range in Kilometers

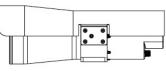
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MWIR Short Range 18x Thermal Camera Part 200070

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Video	PAL/NTSC/Digital Video Optional	Deteo
Control	Control and command available via an RS-232/422 serial interface and PC Graphical User Interface	Spect Warr
Power	6-32 VDC/ 20 Watts typical @ 25°C	
		Zo
Environmental	Unit sealed and dry nitrogen backfilled, rated IP67	Spect
	Front Element Defroster	Lens
	Operating Temperature Range: -32°C to +65°C	Lens
	Meets MIL STD 810F	
Mount	1/4-20 Tripod Interface	
	3/8-16 Tripod Interface	Field
Weight	11.8 lbs (5.35 kg)	
Length	15.3 in (39.05 cm)	









Short Range Thermal Imaging Camera Featuring:

- **18X Continuous Optical Zoom**
- **Auto Focus**
- f/4 High Sensitivity Zoom Lens
- Cooled 3-5µm MWIR Detector
- 640 x 512 pixels Focal Plane Array
- **Multiple Command Protocols**
- 2 Year Warranty
- **Environmentally Sealed IP67**
- **G5 Image Processing**
- **Edge Enhancement**
- SD SDI Digital Video Output



ctral Band ranty

oom Lens

ctral Range s Type s Features

d of View

640 x 512 3-5µm 2 -Years

3-5µm f/4 18x Continuous Zoom Motorized remote operation Auto and manual focus adjust

NFOV- 1.8° x 1.4° WFOV- 32° x 24°

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MWIR Mid-Range 18X Zoom Thermal Camera

The 18X Zoom Thermal Camera

is the system of choice for long range all-weather security and surveillance. With outstanding very long range target detection and recognition capabilities, the Mid Range combines high-end performance with G5IR reliability and ease of use.

The Mid Range delivers in all conditions day or night or bad weather extraordinarily clear long range

thermal video images with the convenience of continuous zoom. Its horizontal field of view zooms smoothly from 18° to 1.0°. It enables man-sized target detection at ranges in excess of 18km in good conditions. The Mid-Range integrates advanced cooled photodetector technology has a 640 x 512 focal plane array that operates in the 3–5µm MWIR spectral region — the best choice for marine and high humidity environments. The G5IR's environmentally sealed, dry nitrogen backfilled enclosure ensures operability and stability over variable temperatures and diverse weather conditions. The Mid Range imager is remotely controllable via serial interface and intuitive Graphical User Interface.

Applications: Vessel Traffic Surveillance, Border Protection, Critical Infrastructure Protection, Airport and Port Security

*Range Performance

D = Detection	50% Probability D / R / I
R = Recognition	Target 2 degree delta T vs background
I = Identification	Clear atmosphere / very low turbulenc

 Clear atmosphere / very low turbulence
Actual range performance will vary based on a number of conditions, including user experience, display size/quality, weather/atmospheric conditions, etc.

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MWIR Mid-Range 18x Thermal Camera

Part	200102
Video	PAL/NTSC/Digital Video Optional
Control	Control and command available via an RS-232/422
	serial interface and PC Graphical User Interface
Power	6-32 VDC/ 20 Watts typical @ 25°C
Environmental	Unit sealed and dry nitrogen backfilled, rated IP67
	Front Element Defroster
	Operating Temperature Range: -32°C to +65°C
	Meets MIL STD 810F
Mount	1/4-20 Tripod Interface
	3/8-16 Tripod Interface
Weight	13.5 lbs (6.12 kg)
Length	18.8 in (47.94 cm)

Cooled Sensor

Detector Spectral Band Warranty

Zoom Lens

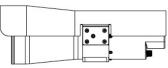
Spectral Range Lens Type Lens Features

Field of View

640 x 512 3–5μm 2-Years

3-5μm f/4 18x Continuous Zoom Motorized remote operation Auto and manual focus adjust NFOV- 1.0° x 0.75° WFOV- 18.0° x 13.7°

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Side View



Mid- Range Thermal Imaging Camera Featuring:

- 18X Continuous Optical Zoom
- Auto Focus
- *f*/4 High Sensitivity Zoom Lens
- Cooled 3-5µ MWIR Detector
- 640 x 512 pixels Focal Plane Array
- Multiple Command Protocols
- 2-Year Warranty
- Environmentally Sealed IP67
- G5 Image Processing
- Edge Enhancement
- SD SDI Digital Video Output

Target Size (1.8x0.5m)

Target Size (2.3x2.3m)

MWIR Long Range - SD 18X Zoom Thermal Camera

The LR- SD Continuous Zoom

Thermal Camera is the system of choice for long range all-weather security and surveillance. With outstanding target detection and recognition capabilities, the LR- SD combines high end performance with reliability and ease of use.

The LR- SD delivers in day or night an extraordinarily clear thermal video with the convenience of a continuous zoom.

Its horizontal field of view zooms smoothly from 12.5°

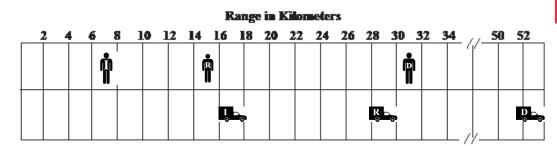
to 0.7°. It enables man-sized target detection at ranges in excess of 25km in good conditions. The LR- SD integrates advanced cooled photodetector technology has a 640 x 512 that operates in the 3–5 μ m MWIR spectral region — the best choice for marine and high humidity environments. Environmentally sealed, dry nitrogen backfilled enclosure ensures operability and stability over variable temperatures and diverse weather conditions. The LR- SD imager is remotely controllable via serial interface and Graphical User Interface.

Applications: Vessel Traffic Surveillance, Border Protection, Critical Infrastructure Protection, Airport and Port Security

*Range Performance

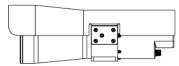
- **D** = **Detection** 50% Probability D / R / I
- **R** = **Recognition** Target 2 degree delta T vs background

I = Identification Clear atmosphere / very low turbulence Actual range performance will vary based on a number of conditions, including user experience, display size/quality, weather/atmospheric conditions, etc.



MWIR Long Range 18x SD Thermal Camera

Part	200107
Video	PAL/NTSC/SD-SDI, IP (optional)
Control	Control and command available via RS-232/422
D	serial interface, IP (optional)
Power	6-32 VDC/ 20 Watts typical @ 25°C
Environmental	Unit sealed and dry nitrogen backfilled, rated IP67
	Front Element Defroster
	Operating Temperature Range: -32°C to +65°C
	Meets MIL STD 810F
Mount	1/4-20 or 3/8-16 Tripod Interface
Weight	29.7 lbs (13.5 kg)
Length	25.4 in (64.5 cm)



Side View



Rear View

Long Range SD Thermal Imaging Camera

Featuring:

- 18x Continuous Optical Zoom
- Auto Focus
- *f*/4 High Sensitivity Zoom Lens
- Cooled 3-5µm MWIR Detector
- 640 x 512 pixels Focal Plane Array
- Multiple Command Protocols
- 2 Year warranty
- Environmentally Sealed IP67
- G5 Image Processing
- Edge Enhancement
- Optional Local Area Contrast Enhancement
- SD SDI Digital Video Output
- Adaptive temporal noise reduction
- Digital Zoom up to 8x
- Optional Turbulence Mitigation
- Optional IP video and control (H.264)
- Optional Electronic Image Stablization



Cooled Sensor

Detector Spectral Band Warranty

Zoom Lens

Spectral Range Lens Type Lens Features

Field of View

2 -Years 3-5µm f/4 18x Continuo

640 x 512

3–5um

f/4 18x Continuous Zoom Motorized remote operation Auto and manual focus adjust 18x Continuous Optical Zoom NFOV - 0.7° x .5° WFOV -12.5° x 9.5°

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MWIR Long Range-HD 18X Zoom Thermal Camera

The LR-HD Continuous Zoom

Thermal Camera is the system of choice for long range all-weather security and surveillance. With outstanding target detection and recognition capabilities, the LR-HD combines high-end performance with reliability and ease of use.

The LR-HD delivers in day or night an extraordinarily

clear thermal video with the convenience of continuous zoom from 16.6° to 0.9°. It enables man-sized target detection at ranges in excess of 25km in good conditions. The LR-HD integrates advanced cooled photodetector technology has a 1280 x 1024 focal plane array and operates in the $3-5\mu$ m MWIR spectral region — the best choice for marine and high humidity environments. Environmentally sealed, dry nitrogen backfilled enclosure ensures operability and stability over variable temperatures and diverse weather conditions. The LR-HD imager is remotely controllable via serial interface and Graphical User Interface.

Applications: Vessel Traffic Surveillance, Border Protection, Critical Infrastructure Protection, Airport and Port Security



*Range Performance

- **D** = **Detection** 50% Probability D / R / I
- **R** = **Recognition** Target 2 degree delta T vs background

I = Identification Clear atmosphere / very low turbulence Actual range performance will vary based on a number of conditions, including user experience, display size/quality, weather/atmospheric conditions, etc.

MWIR Long Range 18x HD Thermal Camera

Part Video Control	200124 HD-SDI, IP (optional) Control and command available via RS-232/422
Power	6-32 VDC/20 Watts typical @25C
Environmental	Unit sealed and dry nitrogen backfilled, rated IP67 Front Element Defroster Operating Temperature Range -32°C to +65°C Meets MIL STD 810F
Mount	1/4-20 or 3/8 -16 Tripod Interface
Weight	29.7 lbs (13.5 kg)
Length	25.4 in (64.5 cm)



Detector Spectral Band Warranty

Zoom Lens

Spectral Range Lens Type Lens Features

Field of View





Long Range HD Thermal Imaging Camera Featuring:

- 18x Continuous Optical Zoom
- Auto Focus
- f/4 High Sensitivity Zoom Lens
- Cooled 3-5µ MWIR Detector
- 1280 x 1024 pixel Focal Plane Array
- Multiple Command Protocols
- 2 Year warranty
- Environmentally Sealed IP67
- G5 Image Processing
- Edge Enhancement
- Optional Local Area Contrast Enhancement
- HD SDI Digital Video Output Adaptive temporal noise reduction
- Digital Zoom up to 8x
- Optional Turbulence Mitigation Optional
- IP video and control (H.264) Optional
- Electronic Image stabilization



1280 x 1024 3–5μm

2 -Years

3-5μm f/4 18x Continuous Zoom Motorized remote operation Auto and manual focus adjust 18x Continuous Optical Zoom NFOV- 0.9° x 0.7° WFOV- 16.6° x 13.3°