

# MWIR 785CZ

## 18X Zoom Thermal Camera

### The 785CZ-18 Continuous Zoom

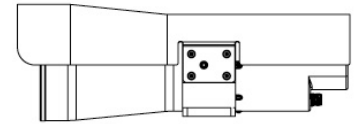
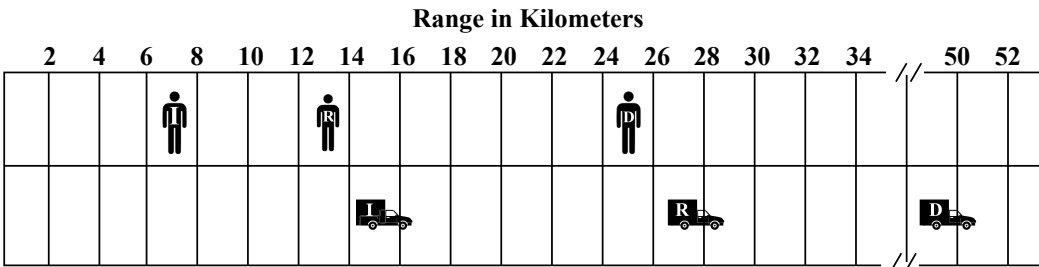
**Thermal Camera** is the system of choice for long range all-weather security and surveillance. With outstanding target detection and recognition capabilities, the 785CZ-18 combines high-end performance with reliability and ease of use.

The 785CZ-18 delivers in day or night an extraordinarily clear thermal video with the convenience of continuous zoom from 44 to 785mm. 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 785CZ-18 integrates advanced cooled photodetector technology in a 640 x 512, 15µm Pitch focal plane array and 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 785CZ-18 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.



Side View



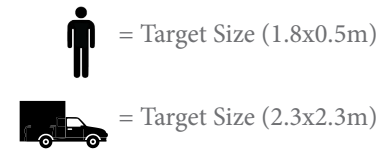
Rear View



## LongRange Thermal Imaging Camera

Featuring:

- 18x Continuous Optical Zoom
- 12.5° to 0.7° Horizontal Field of View
- F/4.0 High Sensitivity Zoom Lens
- Auto Focus
- Cooled 3-5µm MWIR Detector
- 640 x 512 pixels Focal Plane Array
- Multiple Command Protocol
- 2 Year warranty
- Environmentally Sealed IP67
- Target Detection\* Man >25km  
Vehicle >48km
- G5 Image Processing
- Edge Enhancement
- Optional: SD SDI Digital Video Output



### MWIR 785CZ-18 Thermal Camera

Part	200107
Video	PAL/NTSC/Digital Video 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 +60°C
Control	Control and command available via an RS-232/422 serial interface and PC Graphical User Interface
Mount	1/4-20 Tripod Interface 3/8-16 Tripod Interface
Weight	24.1 lbs (10.9 kg)
Length	24.9 in (63.2 cm)

### Cooled Sensor

Detector	640 x 512, 15µm Pitch
Spectral Band	3-5µm
Warranty	2 -Years

### Zoom Lens

Spectral Range	3-5µm
Lens Type	Continuous Zoom, 44-785mm
Lens Features	Motorized remote operation Auto and manual focus adjust 18x Continuous Optical Zoom
Field of View	(WFOV- NFOV) 12.5° x 9.4° to 0.7° x 0.5°

# MWIR 300CZ

## 14X Zoom Thermal Camera

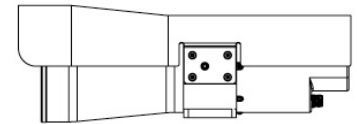
**The 300CZ-14 Continuous Zoom Thermal Camera** is the system of choice for mid range & long range all-weather security and surveillance. With outstanding target detection and recognition capabilities, the 300CZ-14 combines high-end performance with reliability and ease of use.

The 300CZ-14 delivers in day or night an extraordinarily clear thermal video with the convenience of continuous zoom from 22 to 300mm. Its horizontal field of view zooms smoothly from 24.6° to 1.4°. It enables man-sized target detection at ranges in excess of XXkm in good conditions. The 300CZ-14 integrates advanced cooled photodetector technology in a 640 x 512, 15µm Pitch focal plane array and 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 300CZ-14 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.



Side View



Rear View



### Mid Range Thermal Imaging Camera

Featuring:

- 14X Continuous Optical Zoom
- 24.6° to 1.4° Horizontal Field of View
- F/4.0 High Sensitivity Zoom Lens
- Auto Focus
- Cooled 3–5µm MWIR Detector
- 640 x 512 pixels Focal Plane Array
- Multiple Command Protocol
- 2 Year Warranty
- Environmentally Sealed IP67
- Target Detection\* Man >11km, Vehicle >25km
- G5 Image Processing
- Edge Enhancement
- Optional: SD SDI Digital Video Output

### Range in Kilometers

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	

- = Target Size (1.8x0.5m)
- = Target Size (2.3x2.3m)

### MWIR 300CZ-14 Thermal Camera

Part	200070
Video	PAL/NTSC/Digital Video 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 +60°C
Control	Control and command available via an RS-232/422 serial interface and PC Graphical User Interface
Mount	1/4-20 Tripod Interface 3/8-16 Tripod Interface
Weight	11.8 lbs (5.35 kg)
Length	15.3 in (39.05 cm)

### Cooled Sensor

Detector	640 x 512, 15µm Pitch
Spectral Band	3–5µm
Warranty	2 -Years

### Zoom Lens

Spectral Range	3–5µm
Lens Type	Continuous Zoom, 22-300mm
Lens Features	Motorized remote operation Auto and manual focus adjust 14x Continuous Optical Zoom (WFOV- NFOV) 24.6° x 18.6° 1.8° x 1.4°
Field of View	

# MWIR 550CZ

## 18X Zoom Thermal Camera

### The 550CZ-18 Continuous Zoom

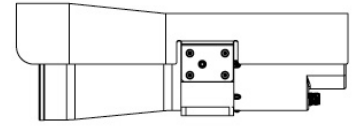
**Thermal Camera** is the system of choice for long range all-weather security and surveillance. With outstanding very long range target detection and recognition capabilities, the 550CZ-18 combines high-end performance with G5IR reliability and ease of use.

The 550CZ-18 delivers in all conditions day or night or bad weather an extraordinarily clear long range thermal video images with the convenience of continuous zoom from 30 to 550mm. 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 550CZ-18 integrates advanced cooled photodetector technology in a 640 x 512, 15µm pitch focal plane array and 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 550CZ-18 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 turbulence  
Actual range performance will vary based on a number of conditions, including user experience, display size/quality, weather/atmospheric conditions, etc.



Side View



Rear View

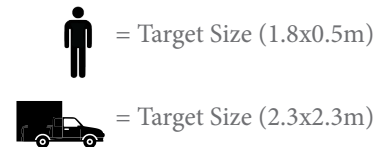
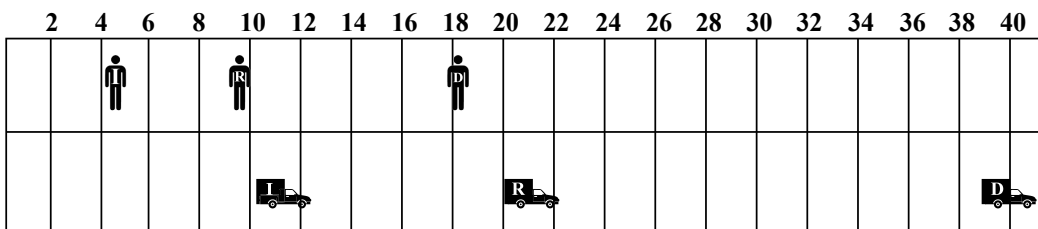


### Long Range Thermal Imaging Camera

Featuring:

- 18X Continuous Optical Zoom
- 18.0° to 1.0° Horizontal Field of View
- F/4.0 High Sensitivity Zoom Lens
- Auto Focus
- Cooled 3–5µm MWIR Detector
- 640 x 480 pixels Focal Plane Array
- Multiple Command Protocol
- 2-Year Warranty
- Environmentally Sealed IP67
- Target Detection\* Man >18km  
Vehicle >40km
- G5 Image Processing
- Edge Enhancement
- Optional: SD SDI Digital Video Output

Range in Kilometers



### MWIR 550CZ-18 Thermal Camera

<b>G5IR Part</b>	200102
<b>Video</b>	PAL/NTSC/Digital Video Optional
<b>Format Power</b>	6-32 VDC/ 20 Watts typical @ 25°C
<b>Environmental</b>	Unit sealed and dry nitrogen backfilled, rated IP67 Front Element Defroster Operating Temperature Range: -32°C to +60°C
<b>Control</b>	Control and command available via an RS-232/422 serial interface and PC Graphical User Interface
<b>Mount</b>	1/4-20 Tripod Interface 3/8-16 Tripod Interface
<b>Weight</b>	13.5 lbs (6.12 kg)
<b>Length</b>	18.8 in (47.94 cm)

### Cooled Sensor

<b>Detector</b>	640 x 512 15µm pitch
<b>Spectral Band</b>	3–5µm
<b>Warranty</b>	2-Years

### Zoom Lens

<b>Spectral Range</b>	3–5µm
<b>Lens Type</b>	Continuous Zoom, 30-550mm
<b>Lens Features</b>	Motorized remote operation Auto and manual focus adjust 18x Continuous Optical Zoom (WFOV- NFOV) 18.0° x 13.7° to 1.0° x 0.75°
<b>Field of View</b>	

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