

# MWIR 785CZ HD 18X Zoom Thermal Camera

## The 785CZ HD Continuous Zoom

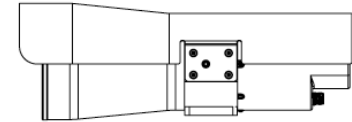
**Thermal Camera** is the system of choice for long range all-weather security and surveillance. With outstanding target detection and recognition capabilities, the 785CZ HD combines high-end performance with reliability and ease of use.

The 785CZ HD 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 16.6° to 0.9°. It enables man-sized target detection at ranges in excess of 25km in good conditions. The 785CZ HD integrates advanced cooled photodetector technology in a 1280 x 1024, 10µm 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 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.



Side View

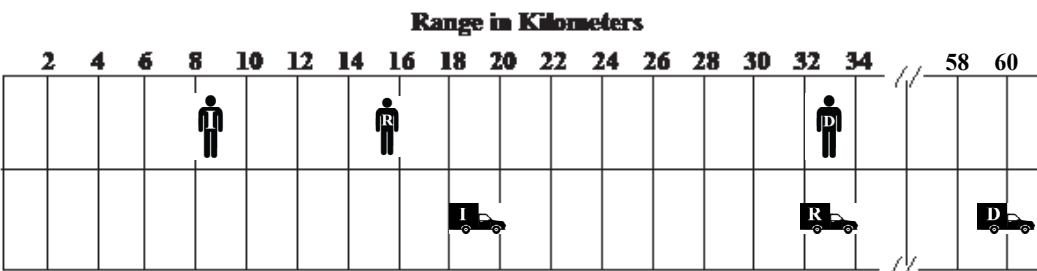


Rear View

## LongRange Thermal Imaging Camera

### Featuring:

- 18x Continuous Optical Zoom
- Auto Focus
- Cooled 3–5µm MWIR Detector
- 1280 x 1024 pixels Focal Plane Array
- Multiple Command Protocol
- 2 Year warranty
- Environmentally Sealed IP67
- G5 Image Processing
- Edge Enhancement
- LACE
- HD SDI Digital Video Output
- Optional Turbulence Mitigation
- Optional IP video and control (H.264)



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

## MWIR 785CZ-18 Thermal Camera

Part	200107
Video	HD-SDI, IP (opt)
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, IP (opt)
Mount	1/4-20 Tripod Interface 3/8-16 Tripod Interface
Weight	29.7 lbs (13.5 kg)
Length	25.4 in (64.5 cm)

## Cooled Sensor

Detector	1280 x 1024, 10µm 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
Field of View	18x Continuous Optical Zoom (WFOV- NFOV) 0.93 x .74 16.6 x 13.3

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