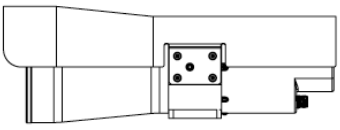
MWIR 785CZ SD
18X Zoom Thermal Camera



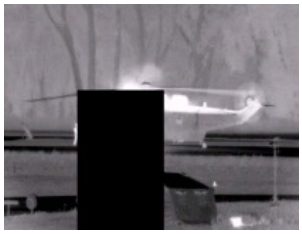
Side View

Rear View

The 785CZ 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 785CZ SD combines high-end performance with reliability and ease of use.

The 785CZ SD 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 SD 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 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



LongRange Thermal Imaging Camera

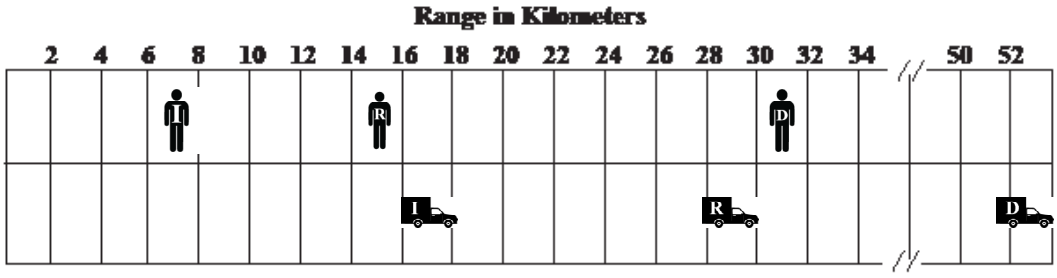
Featuring:

- **18x Continuous Optical Zoom**
- **Auto Focus**
- **Cooled 3–5µm MWIR Detector**
- **640 x 512 pixels Focal Plane Array**
- **Multiple Command Protocol**
- **2 Year warranty**
- **Environmentally Sealed IP67**
- **G5 Image Processing**
- **Edge Enhancement**
- **LACE**
- **SD SDI Digital Video Output**
- **Optional Turbulence Mitigation**
- **Optional IP video and control (H.264)**

*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.



= Target Size (1.8x0.5m)

= Target Size (2.3x2.3m)

MWIR 785CZ-18 Thermal Camera

Part	200107
Video	PAL/NTSC/SD-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	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) 0.7 x .5 12.5 x 9.5

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