

*Clarity. Accuracy. Reliability.*



## Features

- Tri- or Quad-Field-of-View Options
- Cooled 3-5 $\mu$ m Infrared Sensor
- Focal Plane Array Choices:
  - 320 x 256
  - 640 x 512
  - 640 x 480 (High Reliability Cooler Option)
- Auto and Manual Focus
- High Sensitivity Mode
- Dry Nitrogen Backfilled
- Remote Control Capability
- Digital Video Output (Optional)

# Extreme Long-Range Thermal Imaging Camera

## Z-1000

Capable of resolving man-sized targets at over 20 kilometers, the Z-1000 is an ideal extreme long-range targeting solution in border protection and perimeter surveillance missions. The Z-1000 offers four fields-of-view options for long-range detection and identification.

The Z-1000 provides the ability to alternate rapidly among up to four focal lengths. The camera features a cooled infrared sensor with a ruggedized design to ensure performance in harsh desert and mountainous environments. The camera is easily integrated into any command and control system and provides easy-to-use push button interaction.

General Dynamics Global Imaging Technologies designs and manufactures a full portfolio of high-performance cameras and camera systems that provide our customers the clarity, accuracy and reliability to capture the shot that matters and successfully complete their mission.

## SYSTEM SPECIFICATIONS

Video Format	NTSC, PAL, or optional digital output
Serial Interface	RS-232/RS-422
Power Requirements	Option 1: 11–16 VDC, 18 Watts typical @ 25°C steady state Option 2: 10.5–36 VDC, 30 Watts typical @ 25°C steady state Option 3: 10.5–36 VDC, 30 Watts typical @ 25°C steady state
Environmental	Unit sealed and dry nitrogen backfilled, rated IP67 Front Element Defroster Operating Temperature Range: -32°C to +60°C Non-Operating Temperature Range: -40°C to +71°C
Controls	Controls available on a hand held pendant or through a PC via an RS-232/422 link Mounting ¼-20 Interface
Weight	~42 lbs. (19.1kg)
Length	~29.5" (75cm)
Height	~12.1" (30.8cm)
Width	~14" (35.6cm)

## SENSOR SPECIFICATIONS

Detector	Option 1: 320 x 256 Option 2: 640 x 512 Option 3: 640 x 480
Spectral Band	3–5µm

## OPTICAL CHARACTERISTICS

Spectral Range	3-5µm
Lens Type	Tri-Field of View: 250mm/500mm/1000mm or Quad-Field of View: 95mm/250mm/500mm/1000mm
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Lens Features	Motorized Remote Operation Auto and Manual Focus Tri-or Quad-Field of View
Field of View	Option 1 & 2: 5.8° x 4.3° (Extra Wide – optional Quad-Field) 2.2° x 1.7° (Wide) 1.1° x 0.8° (Mid) 0.55° x 0.41° (Narrow)  Option 3: 4.6° x 3.5° (Extra Wide – optional Quad-Field) 1.8° x 1.3° (Wide) 0.88° x 0.66° (Mid) 0.44° x 0.33° (Narrow)

Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice. Export is subject to U.S. Government regulations.



General Dynamics  
Global Imaging Technologies  
44 Simon Street,  
Nashua, NH 03060 USA

+1 603.521.9300

[www.gd-imaging.com](http://www.gd-imaging.com)