

Clarity. Accuracy. Reliability.



Features

- 5x Continuous Field-of-View Optical Zoom
- Integrated 26x Zoom Visible Camera
- 320 x 256 Focal Plane Array (Optional)
- 640 x 512 Focal Plane Array
- Integrated Precision Positioning System
- 2-Axis Gyro-Stabilization (Optional)
- Auto and Manual Focus
- Multiple User-Defined Presets

Long-Range Multi-Sensor System

VZ-500

The VZ-500 is a highly reliable electro-optical infrared (EO/IR) multi-sensor camera system with available continuous zoom capabilities. The VZ-500 is a cost-effective and highly reliable system that is used in a variety of security and surveillance applications, such as protecting critical infrastructure and securing borders, airports and ports of entry.

Featuring a proprietary, ruggedized design and cooled sensor technology the VZ-500 captures precise target signatures day and night, regardless of environment. The VZ-500 includes an integrated 26x zoom visible camera and precision positioning system.

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 / Differential
Serial Interface	RS-422
Power Requirements	18-28VDC (direct to P/T), 100-240VAC or 12VDC (with DCU)
Environmental	Unit sealed and dry nitrogen backfilled 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 joystick or through a PC via an RS-232/422 link Proportional Pan & Tilt speed controls Field of View & Focus Slaving: Visual/Thermal Zoom Focus (Auto/Manual) Auto Scan with 10 tables of 10 userdefined presets, variable speed, dwell, and camera selection Optional TCP/IP Interface
Weight	~65 lbs (29kg) (Pan/tilt head & sensors)

VISIBLE CAMERA CHARACTERISTICS

Short-Range:

Sensor	1/4" IT CCD (Super HAD) Approx. 630k Pixels (NTSC) Approx. 740k Pixels (PAL)
Field of View	42° to 1.6° (continuous optical zoom)
Zoom Optical	26X
Digital	12X
Resolution (TV lines)	470 NTSC/460 PAL
Min. Illumination	<2.0 lux (1/60 sec) <0.05 lux (1/4 sec)
Signal to Noise	>50dB

Long-Range:

Sensor	1/3" IT CCD 380k Pixels (NTSC) 440k Pixels (PAL)
Field of View	26.8° to 0.9° (continuous optical zoom)
Zoom Optical	30X
Digital	10X
Resolution	560 color, 700 B/W
Min. Illumination	<0.2lux, f/1.2 color <0.01lux, f/1.2 B/W
Signal to Noise	>50dB

THERMAL CAMERA CHARACTERISTICS

Detector	Option 1: 320 x 256 Option 2: 640 x 512
Spectral Band	3–5µm
Type	Motorized Remote Focus & Continuous Zoom (100-500mm) Optical System
f/#	4
Field of View	5.5° x 4.1°(Wide) to 1.1° x 0.8° (Narrow), continuous zoom
Controls/Features	High Sensitivity Mode Multiple Color Palettes Inverse Polarity

PAN/TILT HEAD

Pan	360° Continuous
Tilt	±60°
Accuracy	0.05°
Repeatability	0.01°
Position Rate	Pan <0.01° to >300°/second Tilt <0.01° to >300°/second

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.



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