

GEMINEYE™

MODULAR IMAGING SYSTEM



The demand for high performance day / night surveillance is pressing for smaller, smarter, less expensive products. At the same time, the environments in which imaging products must function are increasingly hostile. Responding to this demand, Quickset developed the GeminEye™ modular imaging system. GeminEye embraces high performance in a small package and it is designed to be configured for different applications.

Based on our QPT-LT dual side-mount positioner, it can be configured with single or dual camera blocks for day, night or day / night capability. Its extensive customer base, formed over thirty years in the security industry, for a “clean sheet” specification of all salient characteristics needed for creation of the GeminEye.

As a system, GeminEye is completely upgradable with image blocks swappable by the user in the field. Let the GeminEye surveillance system be an important part of your complete security solution.

KEY FEATURES

- Compact / light weight
- Quick-change camera modules (blocks) with true plug ‘n play performance
- Network controllable or dedicated (UniCom®LT) controller
- Single universal protocol, unaffected by camera changes
- Mil-STD-810F, IP67 sealed and pressurized camera housings
- Random vibration (M56) resistant, Salt / Fog MIL-STD-810F, Meth. 509.4
- 10-30 VDC operations
- Choice of multi-spectral cameras
- Continuous pan rotation
- Capable of mobile or inverted operation
- No exposed wiring
- Full two-way communication
- Mounting kits

Sensor Integration

- Visible spectrum cameras, optimized for low light sensitivity
- Thermal imagers

GEMINEYE CONFIGURATIONS



Single Camera



Dual Camera

APPLICATIONS

Force Protection
Perimeter Detection
Emergency Vehicle Situational Awareness
UGV Navigational Aid
Port & Ship Safety and Security
Mobile Surveillance Systems
Remote Surveillance
Municipal and Utility Surveillance
And Numerous Others



Image Blocks

The camera blocks are designed for quick disconnect from the positioner. Customers can reconfigure systems from day to night payloads or install both at the same time. The image blocks contain embedded translation of the camera operating protocol to the universal protocol of the system. Cameras can be swapped without any change to the system commands. Combined with the Unicom[®] LT controller or with the system GUI interface, all camera functions are available immediately upon installation. Each camera block is fully sealed and pressurized to assure moisture free operation and long lifetime.

SPECIFICATIONS

Operating Voltage	10 to 30 VDC with reverse polarity protection
Total Power	Pan & Tilt Axes: 2.5 A pk, 1.2 A continuous at 24 VDC Heater: 3.0A at 24 VDC Standby: 0.45 A at 24 VDC (no heater current)
Pan Range	360° continuous (non-HD) / ±180° (HD configurations)
Pan Speed	0.25° to 96°/sec
Tilt Range	±90°
Tilt Speed	0.25° to 96°/sec
Limits	Fixed tilt hard limit, adjustable soft limits
Motor Type / Drive	Stepper motor drive
Connector	Mil spec, bottom egress
Weight	Approximately 22 lb (10 kg) with dual cameras
Microprocessor Control	32 presets and 2 preset tours
Control Protocols	Quickset PTL-10 Or PELCO D
Serial Communication	RS422 / RS485, IP
Repeatability	0.25°
Materials	Cast Aluminum, stainless steel hardware, permanently sealed radial ball bearings
Finish	White powder coat paint over alodined chromate for corrosion resistance standard. Other colors and CARC available upon request
Enclosures	IP67, sealed and pressurized camera housings
Operating Temperature Range	-40° to 122°F (-40° to 50°C)
Heaters	Pan & Tilt: 25 W (2), Camera(s): 10 W (each camera) Thermostatically controlled: 32°F on / 35°F off
Position Feedback Resolution and Readout	0.01°

Visible Camera Systems

GVS-S11XXN

Features: Rugged industrial grade, optical zoom, electronic image inversion, image stabilization, low lux capability and DSP technology.

VISIBLE BLOCKS

Part Number	Description	Sensor Size	Focal Length	Optical Zoom	Lens Type	FOV (Horiz.)	<i>f</i>	Focus Type
GVB-S11XXN	VISB 1/4 in CCD 1020 3.4 to 122 mm 36x	1/4 in CCD	3.4 to 122.4 mm	36x	Zoom	57.8° (wide) to 1.7° (tele)	<i>f</i> 1.6 (wide) to <i>f</i> 4.5 (tele)	Auto

THERMAL BLOCKS

Part Number	Description	Sensor Size	Pixel Size	FOV (horiz x vert)	Focal length	Digital Zoom	<i>f</i>	Lens Type	Focus Type
GTB-F10F1NF	Thermal Block, LWIR 336x256, 25 mm <i>f</i> 1.1	336 x 256	17 μ	13° x 10°	25 mm	2x to 4x	<i>f</i> 1.1	Fixed	Fixed
GTB-F10F2NF	Thermal Block, LWIR 336x256, 50 mm <i>f</i> 1.2	336 x 256	17 μ	6.5° x 5°	50 mm	2x to 4x	<i>f</i> 1.2	Fixed	Fixed

VISIBLE AND THERMAL CAMERA SYSTEMS

Part Number	Description	Thermal Camera						Visible Block	Thermal Block
		Sensor Size	FOV (horiz x vert)	Focal Length	<i>f</i>	Lens Type	Focus Type		
GVTS-S11XXN-F10F1NF	GeminEye Dual Sys, 28x Visible, 25mm LWIR	336 x 256	13° x 10°	25 mm	<i>f</i> 1.1	Fixed	Fixed	GVB-S11XXN	GTB-F10F1NF
GVTS-S11XXN-F10F2NF	GeminEye Dual Sys, 28x Visible, 50mm LWIR	336 x 256	6.5° x 5°	50 mm	<i>f</i> 1.2	Fixed	Fixed	GVB-S11XXN	GTB-F10F2NF

VISIBLE SENSOR ONLY SYSTEMS

Part Number	Description	Thermal Camera						Visible Block	Thermal Block
		Sensor Size	FOV (horiz x vert)	Focal Length	<i>f</i>	Lens Type	Focus Type		
GVS-S11XXN	GeminEye Single, Vis 36x <i>f</i> 1.6	N/A	N/A	N/A	N/A	N/A	N/A	GVB-S11XXN	N/A

THERMAL SENSOR ONLY SYSTEMS

Part Number	Description	Thermal Camera						Visible Block	Thermal Block
		Sensor Size	FOV	Focal Length	<i>f</i>	Lens Type	Focus Type		
GTS-F10F1NF	GeminEye Single, LWIR 25 mm, 336	336 x 256	13° x 10°	25 mm	<i>f</i> 1.1	Fixed	Fixed	N/A	GTB-F10F1NF
GTS-F10F2NF	GeminEye Single, LWIR 50 mm, 336	336 x 256	6.5° x 5°	50 mm	<i>f</i> 1.2	Fixed	Fixed	N/A	GTB-F10F2NF

GEMINEYE ACCESSORIES

Part Number	Description
Power Supply Outdoor	
7-08964	Power Supply, Outdoor, Pole Mountable, 24 VDC, 10.2 A
Cables	
6-20151-10/25/50	Power (2 to 18 AWG), Aux (2 to 18 AWG), 2x Video, Serial Comm to 4x connector, Gnd, CAT-5 to RJ45, available in 10, 25, and 50 ft lengths
Outdoor Power Supply AC Input Cables	
6-19235-8/16/50	Cable, Input Power, 115 VAC, available in 8, 16, and 50 ft lengths
Test Stand Kit	
7-17555	Kit Test Stand GeminEye
Mounts	
7-17567	Pedestal Mount
7-17564	Wall Mount
7-17565	Pole adapter (requires addition of wall mount)
7-17566	Corner adapter (requires addition of wall mount)

These products are subject to export control laws and regulations of the United States government and fall under the control jurisdiction of either ITAR or EAR regulations. Please contact our company Export Representative for further information.



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