

SENSOR & SURVEILLANCE SYSTEMS : CAMERA SYSTEMS

GEMINI FORESIGHT™

SURVEILLANCE SYSTEM

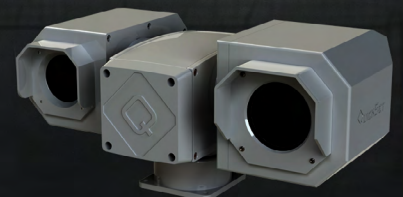
Quickset Defense Technologies' customers rely on the Gemini ForeSight™ Surveillance System to effectively detect, recognize, identify targets, track drones* and provide EO/IR camera surveillance for manned and unmanned vehicles before an attack or intrusion occurs—enabling rapid threat prevention, and decisive response before a drone or enemy weapon reaches a critical asset or warfighter. Accommodates military, commercial and law enforcement surveillance applications.

The Gemini ForeSight™ offers three distinct series—S1, S2, and K1—to optimize between cost and surveillance range. The dual integrated Quickset sensor system offers the best of both worlds for both day and night, and real-time surveillance. The Gemini ForeSight™ employs 24/7, clear and accurate observation through difficult environmental challenges significantly enhancing detection, identification, and appropriate response to potential threats. The integration of various sensors into your surveillance system increases the level of intelligence available to your team.

Gemini ForeSight™ Surveillance System offers quality, durability, flexibility and state-of-the-art technology for maximum preparedness. Be Ready With ForeSight™!

KEY FEATURES

- Cost effective, easy integration
- Detection in obscured environments
- 365/24/7 surveillance in challenging environments
- Scalable to augment existing systems
- Ethernet or serial control
- Integrated H.264 and H.265 (HEVC) encoder with real time streaming video
- 2.18 Megapixels or better daylight camera options
- Selection of thermal camera and lens options available
- ONVIF Profile S supported
- Edge recording built in



*Tracking capabilities coming early 2027

GEMINI FORESIGHT™ : SPECIFICATIONS



VISIBLE CAMERA PERFORMANCE

	S1 Series	S2 Series	K1 Series
Image Sensor	1/1.8-type STARVIS CMOS (SONY IMX64AR-9500L Block)	1/2.8-type STARVIS 2™ CMOS (SONY IMX66-9520L Block)	1/2.8-type STARVUS (SONY IMX 327-21Z30S block)
Sensor Megapixels (Approx.)	4.17 MP	2.18 MP	2.18 MP
Optical Zoom	30x enhanced zoom (6.5 mm – 162.5 mm)*	30x (4.3 mm – 129 mm)	30x (4.7 mm – 141 mm)
Maximum Aperture	F1.6 (wide) to F4.8 (tele)	F1.6 (wide) to F4.7 (tele)	F1.5 (wide) to F4.0 (tele)
Minimum Illumination	ICR OFF: 0.009 lx; ICR ON: 0.00008 lx	ICR OFF: 0.009 lx; ICR ON: 0.00008 lx	Day: 0.05 lx; Night: 0.005 lx; DSS ON: 0.0005 lx
Horizontal Field of View (1080p)	58.1° (wide) to 2.3° (tele)	64.0° (wide) to 2.3° (tele)	60.5° (wide) to 2.3° (tele)
Resolution	Up to 1080p @ 60 FPS	Up to 1080p @ 60 FPS	Up to 1080p @ 60 FPS
Digital Zoom	12x digital (360x total); 36x Stable Zoom	12x digital (360x total); 36x Stable Zoom	12x digital (360x total); 30x Stable Zoom
Image Enhancements	WDR, Defog, Super+ Image Stabilization, Low-Light Optimization	WDR, Defog, Super+ Image Stabilization, Low-Light Optimization	WDR, Defog, Super+ Image Stabilization, Low-Light Optimization

* Combining a 4MP sensor with a 8MP lens provides superior magnification and low-light sensitivity while maintaining high image quality and reducing vibration blur.

THERMAL CAMERA PERFORMANCE**

	S1 Series				S2 Series				K1 Series		
Model	GF-S1-BF1	GF-S1-BF2	GF-S1-BZ1	GF-S1-BZ2	GF-S2-BF1	GF-S2-BF2	GF-S2-BZ1	GF-S2-BZ2	GF-K1-YF1	GF-K1-YF2	GF-K1-YZ1
Thermal Lens	18 mm fixed	36 mm fixed	15-100 mm zoom	26-105 mm zoom	18 mm fixed	36 mm fixed	15-100 mm zoom	26-105 mm zoom	19 mm fixed	35 mm fixed	20-100 mm zoom
Max Aperture	F1.0	F1.0	F1.4	F1.6	F1.0	F1.0	F1.4	F1.6	F1.0	F1.0	F1.2
Horiz. FOV	24.3°	12.2°	28.7°-4.4°	16.8°-4.2°	24.3°	12.2°	28.7°-4.4°	16.8°-4.2°	21.74°	12.52°	21.74°-4.4°
Digital Zoom	2x, 4x, 8x digital				2x, 4x, 8x digital				2x, 3x, 4x digital		
Thermal Sensor	12 µm, 640 × 512 VOx microbolometer				12 µm, 640 × 512 VOx microbolometer				12 µm, 640 × 512 VOx microbolometer		

** DRI diagrams are available upon request

SYSTEM PERFORMANCE

Pan/Tilt Speed	0.05° to 100°/sec (both axes)	Access Control	Basic Authentication
Repeatability	0.1°	Software Update	Fault-tolerant, remote accessible
Minimum Step	0.05°	Network	10/100 Base-T Ethernet
Input Voltage	12 to 32 VDC	Connector	Mil-spec, bottom or side egress
Surge Protection	Proprietary	Security	Password, HTTPS, IEEE 802.1X
System Power	22 W Standby; 125 W Peak	Protocols	IPv4, HTTP/S, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, DHCP, ARP, SOCKS, Pelco-D (Ltd)
Video Compression	H.264 (Base Profile), H.265 (HEVC)	API	ONVIF Profile S
Frame Rates	1920×1080, 1280×720, 640×512, 4CIF, VGA, 2CIF, CIF	Ingress	IP66 sealed & pressurized
Video Streaming	2 configurable streams per camera	Salt/Fog	MIL-STD-810G Method 509.4
Data Rate	64 kbps – 10 Mbps/ch (<1 Mbps @ 4CIF/30fps)	Operating Temp	-32° to +55°C (-25.6° to +131°F)***
System Admin	Web GUI (HTTP or HTTPS)	Color Options	Black, Marine Grey, Olive Drab, Desert Tan (CARC), Marine White

*** Please note this is an estimate, pending completion of ongoing testing

ACCESSORIES

	PART NO.	DESCRIPTION
Power Supply	7-08964	Power Supply, Outdoor, Pole Mountable, 24 VDC, 10.2 A



GEM FORE 0526

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