

G100

Enhanced Vision Camera



Selected #1 in image quality in recent independent surveys.

- Lightweight, long wavelength infrared camera core
- Industry-leading Barium Strontium Titanate (BST) detector technology (320 x 240 pixel array)
- Fully validated and fielded in military, fire, security, industrial and automotive enhanced vision applications
- NTSC Video Output Format

FEATURE	BENEFIT
"GOLD-STANDARD" IMAGE QUALITY	Absolutely the lowest spatial noise under the most challenging and dynamic scene conditions, guaranteeing a clear image
IMMUNITY TO SOLAR RADIATION	BST is the only long wavelength infrared uncooled camera technology to be immune to solar exposure (no expensive filters required)
PLUG-AND-PLAY	Easily integrates with off-the-shelf image processing software and display systems for 24/7 operations. The continuously updated image is never interrupted by a shutter sequence
INTEGRATION SUPPORT	Leading-edge technical support
ANTI-TAMPER FEATURE	Optional configuration with anti-tamper feature available for export outside U.S. for select OEMs*



Stranded motorist



Typical roadway scene

*Contact L-3 at 800-990-3275 and ask for Technical Support to see if you qualify as an advanced OEM

G100 TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE G100 ENHANCED VISION CAMERA				
Focal Plane Array	Type & Material	Uncooled Ferroelectric — Barium Strontium Titanate (BST)				
	Pixel Count	320 x 240				
	Spectral Response	7-14µm				
Thermal Imaging Performance	Start-up Time	~ 45 seconds				
	Contrast/Brightness	Video contrast and brightness is automatically controlled				
	Range to Detect Human Activity	Up to 1500ft (450m)				
Optics	Focus Range	~ 25ft (8m) to infinity				
	Focus Method	Fixed (compensated automatically for temperature variations)				
	Field of View	24° x 18°				
Video	Output Format	NTSC Compatible (Balanced Differential — Video Hi & Video Lo) ¹				NTSC Compatible (Video Hi & GND)
	IR Polarity	White Hot				
Electrical Parameters	Input Voltage	9.5 to 16VDC				
	Window Heater Power Consumption	3 to 9 Watts (based on 30Ω nominal heater resistance & input voltage) ²				
Environmental Characteristics	Operating Temperature	-30°C to 75°C (-22°F to 167°F)				
	Waterproof	Humidity, immersion, rain ³				
	EMC Compliance	Customer responsibility				
Physical Characteristics	Size	Camera 5.4"W x 5.4" H x 3.4"D (14 x 14 x 9cm)				
	Weight	Camera 1.7lbs (0.8kg)				
	Primary Interconnect	Sealed pigtail wires terminated with connector			Sealed connector on camera body	
	Window Heater Interconnect Cable	16"	16"	16"	7.5"	16"
	System I/F Cable Length	16"	16"	Unique Connector	4"	Unique Connector
Export Compliance	Anti-tamper Feature	Employs an advanced anti-tamper feature to prevent camera from operating once removed from intended platform ⁴			N/A	
Ordering Information	Camera Part Number	1000076-0001	1000063-0003	1000063-0001	1000066-0002	1000063-0002
Outline and Mounting Information	Drawing Number	1000078	1000064	1000064	1000068	1000064

Specifications subject to change without notice

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- 1 Requires twisted pair cabling and balanced differential receiver circuitry for normal operation.
- 2 OEM is responsible for determining window heater performance limitations (e.g., airspeed, altitude & humidity combined) for desired application.
- 3 OEM is responsible for certifying camera operation for direct exposure to varying environmental conditions.
- 4 Anti-tamper feature requires proprietary technical data package from L-3 Communications Infrared Products (available to qualified OEMs — for international opportunities)

This material is L-3 Infrared Products general capabilities information and does not contain any controlled technical data as defined within the International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR).