

DVS



The Driver's Vision System (DVS) delivers a high-performing, real time imaging system to all types of vehicles that operate at night and in degraded visibility conditions. Our Gold Standard LWIR imaging sensor technology is the most effective at penetrating smoke, dust, haze, rain and sandstorms.



The highly reliable and successfully validated 320 x 240 BST detectors provide consistently clear imagery under the most challenging dynamic conditions.



Selected #1 in image quality in recent independent surveys.

TACTICAL WHEELED VEHICLES

EMERGENCY RESPONSE VEHICLES

MINING & CONSTRUCTION VEHICLES

FEATURES:

"GOLD STANDARD" IMAGE QUALITY

DISPLAY CONTROL MODULE (DCM)
640 x 480 VGA

IMMUNITY TO SOLAR RADIATION

AUTOMATIC DE-ICING

EASY INSTALLATION

BENEFITS:

The absolute lowest spatial noise under the most challenging and dynamic scene conditions

Operator may self-select polarity setting, display brightness, sensor level and sensor gain

The detector suffers zero damage when pointed directly at the sun for extended periods of time

Freezing temperatures do not impact or compromise system operability

Quickly move camera and display between vehicles in less than 10 minutes with pre-installed mounting hardware and cabling



Typical roadway scene



Stealth convoy application



Combat support application

DVS TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE DRIVER'S VISION SYSTEM (DVS)			
		COTS INFRARED CAMERA ASSEMBLY		DISPLAY & CONTROL MODULE (DCM)	
FOCAL PLANE ARRAY AND DISPLAY PANEL	TYPE	Uncooled Ferroelectric		Liquid Crystal Display (LCD)	
	PIXEL COUNT/SIZE	320 x 240		640 x 480 std., 800 x 600 optional (Active area 10.4in (264mm) diagonally)	
	THERMAL SENSITIVITY	< 100mK		N/A	
	SPECTRAL RESPONSE	LWIR 7-14µm		N/A	
	SOLAR IMMUNITY	24/7 system availability (FPA cannot be damaged by solar radiation)		N/A	
THERMAL IMAGING SYSTEM PERFORMANCE	TIME-TO-IMAGE AT LOW-TEMP EXTREME	< 2 minutes		< 8 minutes for usable image < 15 minutes for full frame rate	
	FIELD OF VIEW	24° x 18°	45° x 35° (using 18mm EFL Lens)		40° x 35° at 10-inch viewing distance
	CONTRAST & BRIGHTNESS CONTROL	Video contrast & brightness are automatically controlled		Contrast Ratio > 60:1, Brightness .05fL to 75fL	
	RANGE TO DETECT HUMAN ACTIVITY	Up to 1500 feet (457m)	Up to 700 feet (213m)		N/A
	RANGE TO DETECT VEHICLE ACTIVITY	Up to 3000 feet (914m)	Up to 1400 feet (427m)		N/A
ELECTRICAL INTERFACE	OPERATING VOLTAGE	16 to 32VDC			
	VIDEO FORMAT	Single-ended driver/receiver via RG-59 Coaxial Cable			
STANDARD FEATURES	SYSTEM ON/OFF	System On/Off Control via DCM Switch			
	IR IMAGE POLARITY	Manual White Hot/Black Hot Polarity Control via DCM Switch			
	CAMERA GAIN & LEVEL	Adjustment via DCM control		N/A	
	DISPLAY BRIGHTNESS	N/A		Adjustment via DCM control	
ADVANCED FEATURES	AUTOMATIC ANTI-ICE WINDOW HEATER	Thermostatically controlled resistive element for winter operations		N/A	
PHYSICAL CHARACTERISTICS	SIZE	5.4"W x 5.4"H x 3.4"D (13.7cm W x 13.7cm H x 8.6cm D)		9.25"L x 10.25"W x 2"H (23.5cm L x 26.0cm W x 5.1cm H)	
	WEIGHT	2.0lbs (0.91kg)		5.0lbs (2.2kg)	
	MOUNTING PROVISIONS	Threaded mount on rear of camera housing		Treaded steel inserts on each side of housing	
	A-KIT ADJUSTABILITY	Azimuth/Elevation		100° range to accommodate various vehicles	
ENVIRONMENTAL CHARACTERISTICS	OPERATING TEMPERATURE	-30°C to +75°C		-37°C to +49°C	
	WATER RESISTANCE	Immersion		Wash-down with 40psi nozzle	
	VIBRATION	3g, 5 to 500Hz, 50 hours per axis		1.5g, 5 to 200Hz, 3 hours per axis	
	SHOCK	100G peak, half sine wave, 20ms duration 20G peak, half sine wave, 11ms duration		40G, Sawtooth Pulse, 18 shocks each direction, 11ms duration	
	EMC COMPLIANCE	FCC Part 15		FCC Part 15	
ORDERING INFORMATION	CAMERA, DISPLAY/CONTROL MODULE, STANDARD A-KIT	1000434-0001	1000434-0002		
	DVS SYSTEM FOR HET	1000434-0001	1000434-0002		
	DVS SYSTEM FOR HEMTT/PLS	1000441-0001	1000441-0002		
	DVS SYSTEM FOR HMMWV	1000447-0001	1000447-0002		

Specifications subject to change without notice

Installation hardware may require modification for vehicles not listed

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