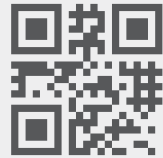


# GÜCÜNÜ BİLGİDEN ALIR



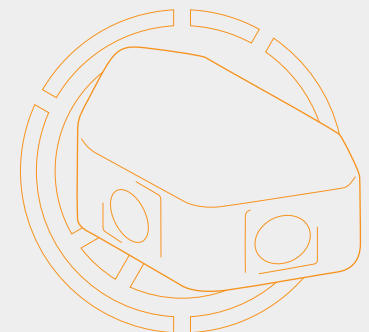
Lightweight  
Low Power



Electro Optic  
Systems

# DVS<sup>120</sup>

INFRARED  
CAMERA



# DVS<sup>120</sup> ALTAY Infrared Camera

## GENERAL

- Situational awareness for combat, tactical-wheeled vehicles, armored security vehicles, and standard security vehicles
- Improves survivability and mission capability by providing drivers with wider fields of view as well as the elimination of blind spots to safely navigate through dust, sand, haze, smoke, light fog and the blackest night
- Ability to see both sides of the road
- High range performance
- Advance image processing algorithms
- Low power consumption
- Compact size
- Low weight

## APPLICATION

- Military Vehicles (main battle tanks, armored combat vehicles, infantry fighting vehicles, ...etc.)



## SPECIFICATIONS

Array Specifications	
Array Type	Uncooled microbolometer
Detector Pitch	17 $\mu\text{m}$ x 17 $\mu\text{m}$ ;
Spectral Band	8 $\mu\text{m}$ to 14 $\mu\text{m}$
Resolution	640 (Horizontal) x 480 (Vertical)
Sensitivity (f#1.0, 300 K)	< 50 mK; < 30 mK (optional)
Pixel Operability	> 99.5 %
Optical Specification	
FOV (one camera, horizontal)	44° ( $\pm$ 10%)
EFL	14.2 ( $\pm$ 10%)
f/#	1.2
Focus Type	Fixed focus; Athermalized
Focus Range	0.6 m to infinity
Coating on the Exterior Surface of Window	Hard Carbon
Coating on the Interior of Window	Anti Reflective (AR)
Imaging Performance	
Frame Rate	25 Hz [CCIR (PAL)]
Time-to-image	< 2 sec
Video Latency	Analog < 60 ms; Digital < 100 ms
Digital Zoom	X1, X2, X3, X4, X8
Digital Zoom Continuous	From X1 to X8 with 0.02 steps
Noise Cancellation	Adaptive Temporal and Spatial Noise Cancellation
Detail Enhancement	Edge Aware Adaptive Digital Detail Enhancement
Image Enhancement	Plateau-based Adaptive Histogram Equalization / Linear / Manual
Color Palette	Up to 8 different palettes
Live Calibration	With Shutter (periodic or externally controllable)
Interfaces	
Connector	MIL-DTL-38999, Series 3 (3 connectors)
Communication	RS-232, Ethernet
Power	MIL-STD-1275E compatible
Power Input Voltage	24V
Maximum Power Consumption	< 20W
Digital Video Output	Parallel Video 1.8 V <b>LVC MOS</b> (8-bit data, vsync, hsync, pixclk), Ethernet (Optional)
Analog Video Output	PAL or NTSC
GPIO	8 pins 1.8 V <b>LVC MOS</b> (Configurable with respect to customer requirements)
External Trigger	Yes (controlled with 1 GPIO)
Physical Properties	
Maximum Weight	3000 gr
Maximum Dimensions (WxLxH)	200 mm x 280 mm x 145 mm
Environmental Conditions	
Environmental Spec	MIL-STD-810
Range Performance*	
Target (2.3 m x 2.3 m)	<b>Detection:</b> 1400 m <b>Recognition:</b> 370 m <b>Identification:</b> 180 m
Target (1.8 m x 0.5 m)	<b>Detection:</b> 500 m <b>Recognition:</b> 120 m <b>Identification:</b> 60 m

\* **DRI** values shown are nominal values and should be used as an estimation. Exact **DRI** calculations depend on a wide variety of conditions.

Specifications are subject to change without notice.