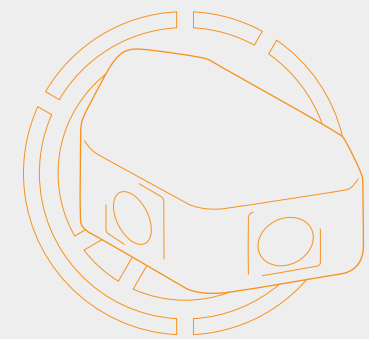
GÜCÜNÜ BİLGİDEN ALIR

Lightweight
Low Power

Electro Optic Systems

DVSF 40

ALTAY INFRARED CAMERA AND LLTV FUSION SYSTEM



ALTAY

CMMIDEV/3

www.altay.com.tr

GENERAL

- Infrared Camera and LLTV Fusion System
- 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

DVSF^{40}

ALTAY Infrared Camera and LLTV Fusion System

APPLICATION

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

SPECIFICATIONS

Detectors	
Detector Type	Uncooled microbolometer
Detector Material	ASi
Detector Pitch	17 µm x 17 µm
Spectral Band	8 µm to 14 µm
Resolution	640 (Horizontal) x 480 (Vertical)
Sensitivity (f#1.0, 300 K)	< 50 mK (for 17 µm x 17 µm)
Optical Interface	
Effective Focal Length (EFL)	14.25 mm (±%5)
FOV (Horizontal)	44° (±%5) (for 17 µm x 17 µm)
f/#	1.2 (±%5)
Focus Type	Fixed focus, Athermalized
Focus Range	0.6 m to infinity
Mechanical Interface	
Dimensions (without accessories)	103 mm x 58 mm x 170 mm (±%10)
Weight (without accessories)	550 gr (±%10)
Imaging Performance	
Frame Rate	25 Hz [CCIR (PAL)]
Time-to-image	< 2 sec
Digital Zoom	X1, X2, X4
Noise Cancelation	Adaptive Temporal and Spatial Noise Cancelation
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	Periodically or on demand
Interfaces	
Connector	MIL-DTL-38999, Series 3
Communication	RS-232
Power	MIL-STD-1275E compatible
Power Input Voltage	24 V
Maximum Power Consumption	5 W (Typically 1.5 W - 2 W)
Digital Video Output	Parallel Video 1.8 V LVCMOS (8-bit data, vsync, hsync, pixclk), Ethernet (Optional)
Analog Video Output	CCIR (PAL)
GPIO	8 pins 1.8 V LVCMOS (Configurable with respect to customer requirements)
External Trigger	Yes (controlled with 1 GPIO)
LLTV Technical Specifications	
Image Sensor	CMOS
Wavelength	400-110 nm (visible+near-infrared)
Viewing Angle	It will cover the perspective of the thermal camera and will provide a minimum requirement of 51.3°±5 % horizontally.
Display	Analogue (PAL)
Resolution	At least 1024 (horizontal) x 768 (vertical) pixels
Frame Rate	Nominal 25 fps.
Light sensitivity	Less than 10 mLux.
Control Interfacetivity	RS422
Environmental Conditions	
Environmental Spec	MIL-STD-810

Specifications are subject to change without notice