



ST-DVES-90-U

Features

ST-DVES-90-U is a vehicle vision system that enables the driver clear vision in front of the vehicle in any conditions using a wide-angle Long Wave Infra-Red thermal camera and visible camera. Not only does it enable the user to see in pitch black environment but it also penetrates through fog much better and can detect objects that would not be visible with naked eye by heat signature. Driver can observe the image on a screen or also transmit video over ethernet to recorder / computer. The camera is installed in a rugged compact enclosure that can withstand any harsh environment. The operator / driver can customize camera settings to enable best image quality using Control Console (White Hot / Black Hot, colour pellet, digital enhancements...). Thermal camera and visible camera are in MIL-810 IP67 enclosure. Plug and play system which includes ST-DVES-90-U, 15" Monitor, Connection cable and Software.

Thermal camera

Sensor	Uncooled VOx Microbolometer (LWIR)
Resolution	640 x 512
Pixel Size	12 μ m
Spectral Band	8 to 14 μ m
Sensitivity (NEDT) f/1.0 @ Room Temperature	< 50 mK
Frame Rate	25 / 30 Hz
Operation	Shutter-less (optional with shutter)
Lens	4.1 mm Athermal
Defrost	Yes
Field of View	89° x 75°
Analog Video	NTSC / PAL
Control Console	Yes (serial communication)
Operating voltage	18 – 28 Vdc
Power consumption	7 W max
Operating temperature	-32°C to 55°C
Protection	IP67
Standards	MIL-810

Visible camera

Image Sensor	1/2.7"
Total Pixels	1956(H) x 1266(V)Approx. 2.12M pixels
Effective Pixels	1944(H) x 1092(V)Approx. 2.48M pixels
Resolution	Digital:1080P(30fps),720P(30fps)
HFOV	89°
Video Output	Digital: HD-SDI (1080 p) Analog: AHD/HD-TV/CVI (1080 p)
Defog	Off/On, Low/Middle/High
Defrost	Yes
Min-illumination	Color:1.0LUX
Power(Max.) supply	DC12V \pm 10%<1.6W
Operating temperature	-32°C to 55°C
Protection	IP67
Standards	MIL-810

15" Monitor



Software

Specially designed software for situation awareness. It allows operator an unobstructed view over the surroundings of the armoured vehicle with hatches closed. Operator can choose and split the screen and use both cameras simultaneously



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