

# Patriot DVE AN/VAS-5

## Driver's Vision Enhancer with Digital Image Stabilization

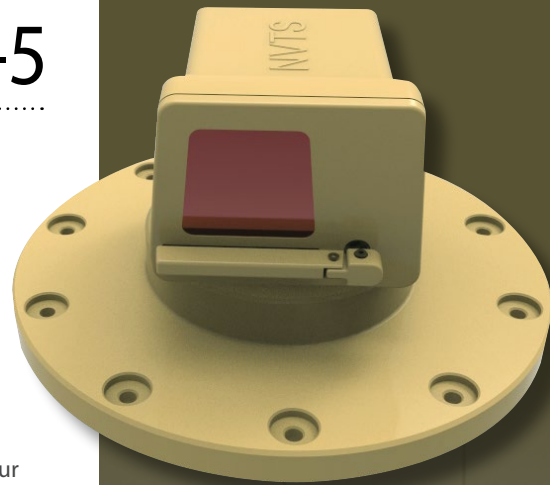
The NVTS Patriot Driver's Vision Enhancer (DVE) is the first compact driver's thermal camera with digital image stabilization. The Patriot surpasses conventional DVEs by providing steadier imaging during battlefield and nighttime operations.

The Patriot DVE is manually controlled from within the vehicle cabin. With our flexible controls, the driver can quickly adjust the azimuth for an observational viewing angle of up to 180°.

The Patriot DVE provides round-the-clock situational awareness, and enhances the driver's ability to detect targets, or threats in theater operations.

### Basic Features:

- **Infrared Thermal Imaging Technology**  
*Does not rely on ambient light as Image Intensification (I2) technology does, and can see through fog, smoke, dust, and total darkness. Can be deployed 24/7.*
- **Advanced Ultra-Crisp UFPA Sensor Technology**  
*320 x 240 or 640 x 480, ultra-high resolution infrared sensor provides a crisp thermal image.*
- **Modular Design**  
*Upgradeable with new optics, sensors, displays, and more.*
- **Versatile, Flexible Design**  
*Compatible and adaptable to virtually any vehicle platform.*
- **Digital Image Stabilization**  
*The Patriot's image stabilization helps steady the image during driving and reduces the effects of vehicle vibration and shock during battlefield conditions.*
- **Field Replaceable Germanium Front Lens**  
*If the lens gets scratched or damaged it can be easily and quickly replaced in the field.*
- **Ruggedized Display and Control Monitor (DCM)**  
*800 x 600-pixel LED, 800 NIT active matrix liquid crystal high resolution display delivers mission-critical information accurately and reliably.*
- **Sealed Outer and Inner Thermal Housing**  
*Allows for quick field replacement, reducing mission down time.*



### Application

- Local Situational Awareness

### Options

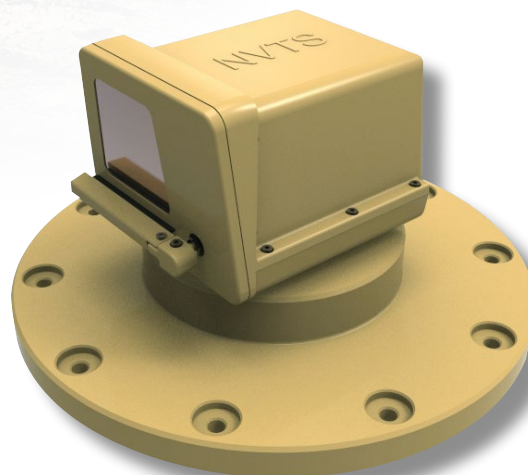
- Digital Image Stabilization
- Motorized Wiper
- Integrated Heater/Cooler
- Narrow FOV for Extended Range

## Basic Product Specifications

Stabilization:	Optional Digital Image Stabilization
Spectral Band:	8-12 $\mu\text{m}$ IR range
IR Detector:	Ultra-Crisp Microbolometer UFPA 320x240 or 640x480
Field of Vision:	40°x30° nominal
Optional Narrow FOV:	For Extended Range
IR Image Polarity:	Manual White Hot/Black Hot Polarity Control via DCM Switch
Gain:	Manual via DCM Control
Field of Regard:	up to 180° (azimuth)
Focus:	Athermalized, Focus-Free, 5m to Infinity
System NETD:	< 40 mK
Weight:	< 7kg (typical for camera)
Power Supply:	12-40 Vdc nominal, MIL-STD-1275
Video Output:	PAL or NTSC
Standard Operating Temp:	-20° C to +50° C -40° C to +60° C with optional heater/ cooler
Shock:	Weapon Firing Shock
Power Consumption:	@ -40° C < 100 W with integrated heater @ +60° C < 100 W with integrated cooler
Dimensions:	6" H x 7" W x 8" D (15.24mm H x 17.78mm W x 20.32mm D)
Mil Spec:	Water, Shock, Dust and Vibration



Standard AMLCD 10.4" Display Unit



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