

## SURVIVABILITY, MOBILITY AND NIGHT OPERATION CAPABILITY

The **ATRI DVE PRS-01** is a driver vision enhancer system designed to elevate situational awareness for tank operators in challenging environments, including bad weather, nighttime operations, and combat scenarios. Its compact and adaptable design allows for a drop-in replacement of existing day periscopes and night vision systems on a wide range of armoured fighting vehicles (AFVs) such as the Leopard 1, T-72, T-64, M113, BMP-1, CVRT, and similar models.

### Enhanced Visibility and Cost-Effective Integration:

- » **Superior Vision:** High-resolution thermal and visible cameras provide clear imagery for improved vehicle manoeuvrability and crew safety.
- » **GVA Compliance:** The system adheres to the Generic Vehicle Architecture (GVA) standard, simplifying integration with existing systems, reducing installation costs, and ensuring compatibility with future upgrades. This extends the lifespan of your tank fleet while maximising cost-effectiveness.

### Seamless Network Connectivity:

- » **Networked Periscopes:** Connect all tank periscopes through a local network for real-time video feeds on any connected monitor. This provides crews with a comprehensive 360-degree view of their surroundings, enhancing situational awareness and coordination.

### User-Friendly Design and Streamlined Operation:

- » **Easy Control:** All camera settings are readily accessible via dedicated buttons on the monitor bezel for effortless operation.
- » **Drop-In Installation:** No vehicle modifications are required. The system utilises existing day periscope mounts for rapid installation and removal.
- » **Flexible Design:** The **ATRI DVE PRS-01** is compatible with various tank models.
- » **Rugged Construction:** The durable HD display control monitor ensures clear visibility and easy operation in any environment.
- » **Advanced Sensor Technology:** Cutting-edge sensors deliver crisp thermal imaging and a high-definition low-light visible camera (with an optional rear camera available).



*Dual Spectrum Periscope*



*Driver's Monitor*

The **ATRI DVE PRS-01** offers a comprehensive solution for enhanced situational awareness in combat vehicles. Its superior features, GVA compliance, user-friendly design, and cost-effective integration make it a powerful choice for modernizing your tank fleet.

## Thermal Imager

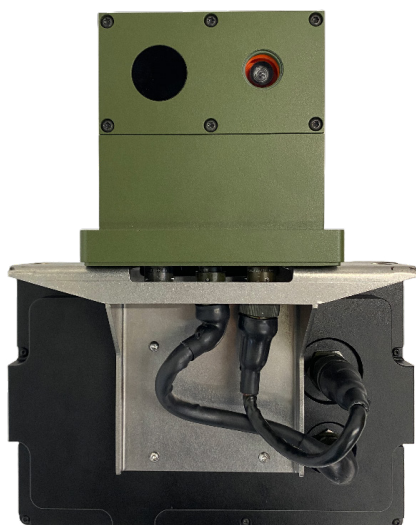
Detector Type	Uncooled VOx Microbolometer
Detector Resolution	640 x 512
Pixel Pitch	12 micron
Spectral Band	8 $\mu$ m – 14 $\mu$ m
Thermal Sensitivity / NETD	$\leq$ 20 mK
Frame Rate Options	Up to 60 Hz
Lens Focal Length	4.9 mm / F1.0
Field of View	90°(H) x 69°(V)
Digital Zoom	1x to 8x zoom

## Low Light Video Camera

Detector Type	1.3MP CMOS
Detector Resolution	1280 X 1024
Pixel Pitch	9.5 micron
Optical Format	1-inch (15.6 mm)
Minimum Illumination	0.5 mLux at 60 FPS and F 1.28
Shutter type	Rolling
Video Frame Rate (FPS)	120, 90, 60, 45, 30 FPS
Field of View	90°(H) x 65°(V)
Dynamic Range	72 dB

## Monitor

Display Size	10.1 inch or 7 inch
Display Resolution	1920x1080 pixels
Bezel keys	Supported. 10 programmable keys
Sensors control	Supported. Contrast, Brightness, Polarity, Zoom, DDE, ACE
NVIS backlight	Supported
LED Backlight	Supported



## Electrical

Power Supply	12-36 VDC
Power Consumption	38W heaters ON, 24W heaters OFF

## Mechanical

Dimensions	28x36x11 cm
Weight	5,2 kgs

## Environmental

Operating Temp	-40° C to +70° C
Storage Temperature	-40° C to +70° C
Shock	1500 g shock pulse w/ 0.4 msec
Vibration	5-500Hz, 5.0Grms
Humidity	5% - 95%
Temperature Shock	5°/min

## Design Standards

Environmental	MIL-STD-810, IP67, IK08
Electrical	MIL-STD-461 (EMI), MIL-STD-1275 (Vehicle power)

