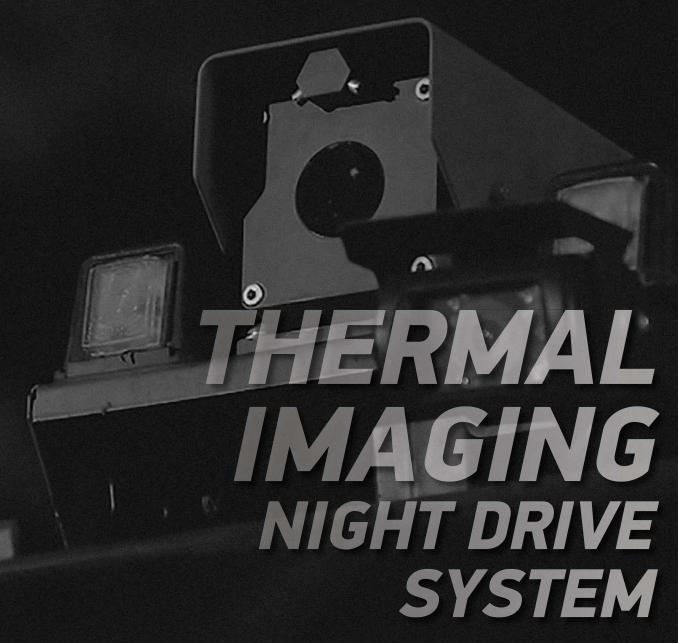
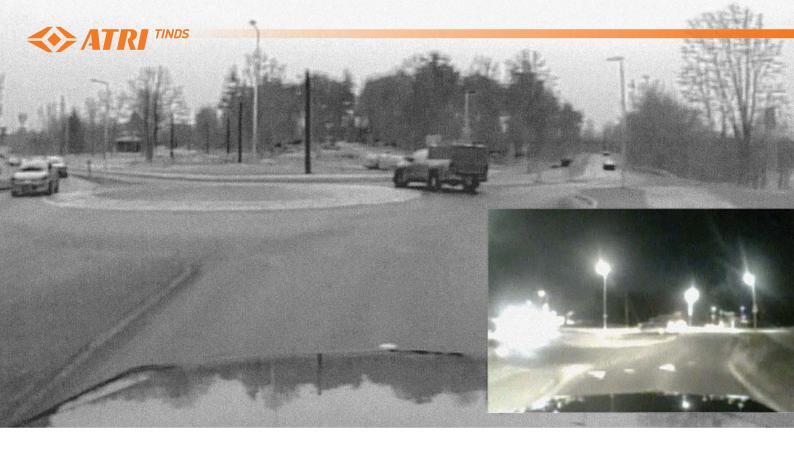
COVERT VEHICLE DRIVING WITHOUT HEADLIGHTS IN TOTAL DARKNESS







ATRI TINDS DVE HELPS YOU SEE THE DANGER WHILE STAYING UNSEEN

ATRI TINDS DVE exclusive solution enables driving with high visibility in various harsh conditions for different purposes

VISIBILITY IN EXTREME CONDITIONS:

- » Total darkness
- » Smoke screen
- » Dense fog
- » Heavy rain or snow

VISIBILITY FOR MULTIPLE APPLICATIONS:

- » Land military tracked and wheeled armored vehicles
- » Border patrol vehicles
- » Homeland security vehicles
- » Police vehicles
- » Special forces vehicles
- » Fire trucks





KEY ASPECTS

ATRI TINDS DVE represents the unity of high-tech components and advanced functions:

- » Scalable complete solutions with cameras, switch, display and integration kit
- » Advanced day & night vision capabilities thanks to LWIR thermal cameras and low light cameras
- » Works without infrared illumination and other light sources
- » Ensures stealthy operation and clear view of the area
- » Dramatically increases vehicle efficiency and
- » Facilitates covert search, rescue and evacuation
- » Locates vehicles and people regardless of the time of day

INTO EXISTING FLEETS



FEATURES AND ADVANTAGES

STEALTHY VEHICLE OPERATION

- » Completely passive system, no IR or other illumination
- » Night-time operation without headlights
- » High performance in the fog, dust, or smoke screen conditions
- » The green-hot color scheme reduces vehicle visibility caused by monitor glare reflections on the driver's face
- » Adjustable brightness of buttons backlight reduces de-masking while enabling the system control

SAFETY AND SECURITY

- » Excellent visibility of the terrain thanks to high-resolution sensors with the best sensitivity
- » Real-time imaging and wide FOV lenses give the drivers perfect situational awareness and enable them to maneuver with confidence
- » No dazzling by headlight glare, bright flashes or explosions
- » The green-hot color scheme reduces driver eye tiredness







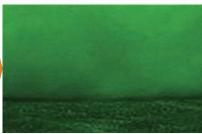
UNMATCHED VISIBILITY





ATRI TINDS DVE





NIGHT VISION SWIR LOW LIGHT VIDEO



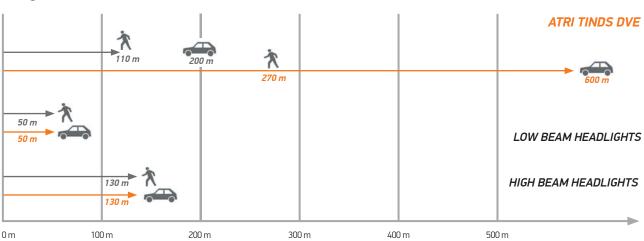


HUMAN VISION

LONG VISIBILITY RANGE

Recognition (m)

Detection (m)



CAMOUFLAGED OBJECT DETECTION





SYSTEM COMPONENTS

ATRI TINDS includes a wide range of elements that can be combined into various configurations depending on the customer's needs, thus ensuring the flexible use of the system.

STANDARD COMPONENTS:

- » Front view LWIR thermal camera
- » Rear view video camera with IR illumination
- » 7" LCD monitor
- » Video processing and distribution unit
- » System control unit
- » Camera lens cleaning system with set of hoses
- » Set of connecting cables
- » Transportation rugged case

ADDITIONAL COMPONENTS:

- » Up to 12 video channels and up to 3 driver's monitors
- » Rear and/or side view thermal imaging cameras
- » Rear and/or side view video cameras
- » Dual spectrum front, rear or side view 90° FOV or 180° FOV cameras
- » 7"/10"/12" monitors
- » Magnetic mount for cameras

RELIABILITY AND ERGONOMICS

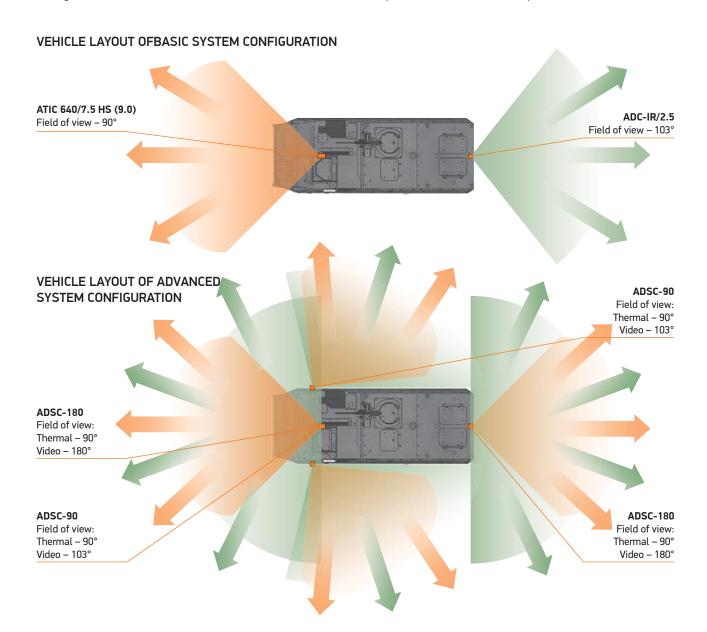
- » ATRI TINDS DVE is MIL-STD-810 qualified and battlefield-proven
- » Military qualified electronic components, materials and technologies enable ATRI TINDS DVE to meet the highest customer's requirement
- » All sealed housings are IP67-rated
- » All cameras are protected from high humidity and condensation
- » Easy operation thanks to the intuitive interface and backlighted control buttons

TURNKEY SOLUTION FROM ONE VENDOR

The fewer vendors are engaged, the more effective the performance is.

Choosing one vendor instead of a pack means:

- » Faster integration at lower costs
- » Prompt issue resolution with no blame games
- » Easier program management, upgrade and maintenance
- » System-level view of the comprehensive solution





CAMERAS

ATIC 640/7.5 HS (9.0)





Functions:

» Enables stealthy driving in total darkness, thick fog, smoke screen or heavy precipitation

Features:

- » Based on a highly reliable uncooled long-wave detector
- » Wide viewing angles allow the driver to see the vehicle dimensions and maneuver confidently
- » Service life up to 10 years (no maintenance required)
- » Thermal sensitivity higher than 30 mK
- » The microbolometer is protected from sunburn due to VOx technology.
- » Germanium window protects the optics from damage
- » Integrated washer nozzles
- » Built-in heater for camera window deicing
- » IP67 rated camera housing purged with dry nitrogen protecting it from moisture condensation
- » Built-in desiccant plug with a humidity indicator
- » Durable vents reduce pressure differences with continuous airflow in and out of the enclosure, while blocking contaminants such as water, automotive fluids, salts, dirt and mud
- » Can be used for front, rear or side views
- » MIL STD 810 qualified
- » NSN code 5855-47-000-9211

ADC-IR/2.5





Functions:

- » Allows driving in the day or in the dark when reversing
- » Suitable for rear and side view

Features:

- » Wide field of view allow the driver to see the vehicle dimensions and maneuver with confidence
- » Built in switchable IR LED illumination ensures visibility in total darkness
- » Controls: Sharpness / Mirror / Flip / D-Zoom / ACE / Defog / Shading
- » Protection: IP67, sapphire camera lens protection window.
- » Operating temperature: 40°C to +65°C
- » MIL STD 810 qualified

ADSC-180





ADSC-90





Functions:

- » Include one LWIR channel 90° FOV and one 103° FOV or three daytime camera channels with a total FOV of 180°
- » Image selection from a thermal imager or day camera(s) depending on the observation conditions

Features:

- » Wide field of view allow the driver to see the vehicle dimensions and maneuver with confidence
- » Operation time up to 10 years (no maintenance required)
- » Thermal imager sensitivity up to 30 mK
- » Low-light video camera. Minimum illumination 0 lx with switchable IR illumination
- » Protective germanium window for thermal camera
- » Protective sapphire window for video camera(s)
- » Integrated washer nozzles for fast and effective camera cleaning
- » Built-in heater for protective windows deicing
- » Sealed IP67 housing filled with dry nitrogen
- » Control of internal humidity by built-in desiccant plug and humidity indicator
- » Durable vents reduce pressure differences with continuous airflow in and out of the enclosure, while blocking contaminants such as water, automotive fluids, salts, dirt and mud
- » Suitable for front, rear or side views
- » MIL STD 810 qualified



DVE MONITORS

AD-LCD/7



Features:

- » Wide viewing angles
- » Brightness and contrast controls
- » Backlighted control buttons for easy operation in darkness
- » Built-in heater
- » IP67 rated
- » MIL STD 810 qualified

AD-LCD/10.1



AD-LCD/12.1



Features:

- » 1200NIT/1000NIT sunlight readable with long-life LED backlight
- » Wide viewing angle IPS (in-plane switching) LCD panel
- » Advanced image-scaling and shaping
- » Automatic backlight adjustment via the built-in ambient light sensor
- » Anti-reflective and anti-fingerprint coating
- » 1280x800 native resolution, 16x9 aspect ratio
- » High-performance image and video signal processor
- » Ruggedized aluminum casing
- » IP67 rated water and dust resistance
- » MTBF (Mean Time Between Failures): > 55,000 hours or > 6.2 years of continuous operation



OTHER SYSTEM COMPONENTS

BCU-1 VIDEO PROCESSING AND DISTRIBUTION UNIT

Functions:

» Designed for video processing, power supply and serial control of all devices in the system.

Features:

- » Supports up to 12 video inputs and up to 3 monitor outputs
- » Overlays adjustable distance mark lines on the video stream that helps the driver to estimate the distance to obstacles
- » Controls split mode on the driver's monitor: full screen, quad, picture in picture, etc.
- » Wide range of input power 9-36 VDC
- » Has a compact size and can be placed in any place of the vehicle
- » Operating temperatures: 40°C to +65°C
- » IP67 rated
- » MIL STD 810 qualified

CU-1 SYSTEM CONTROL UNIT

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Functions:

Used to control ATRI TINDS DVE | system functions:

Adjustable brightness of the control buttons backlight. Controls the camera display mode, color scheme of the image, digital zoom up to 8x, thermal imagers NUC, displaying of the scalable distance-marker grid and additional information on the screen, camera heating turning-on, and camera cleaning with liquid.

- » Control Unit backlight for easy operation in darkness
- » Has a compact size and can be easily installed in any suitable place inside the vehicle
- » Operating temperatures: 40°C to +65°C
- » IP67 rated
- » MIL STD 810 qualified

JCK-01 CAMERA CLEANING SYSTEM

Fast and efficient high-pressure cleaning of any dirt on the camera lenses.

Features:

- » IP66 rated
- » Operating temperatures: -20°C to +65°C

MAGNETIC MOUNTING KIT

Brings the capability of easy and rapid system installation on any vehicles within 5-10 mins

Features:

- » A powerful neodymium magnet fixes the camera to any metal surface
- » Elevation and azimuth adjustment
- » Ensures the capability to operate the system on multiple vehicles by means of quick swapping







