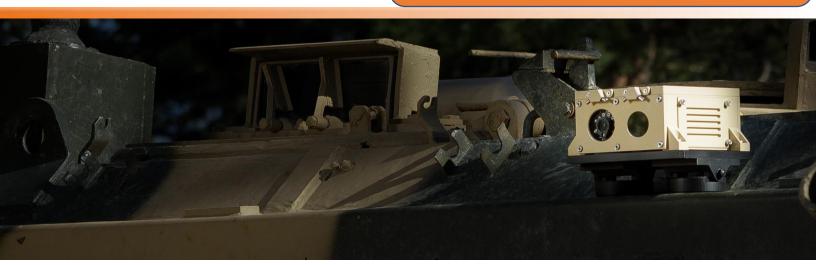


TINDS – ADSC-90 Series

Standard Thermal Driver Viewer



Overview – TINDS

The ATRI TINDS is a family of Thermal Driver Viewer Enhancement (DVE) solutions used to increase safety, performance and situational awareness when operating vehicles during periods of limited visibility. Their primary application is for wheeled and tracked vehicles used for security, border and defense purposes. The TINDS comes in two configurations:

- Basic DVE ATIC Series
- Standard DVE ADSC-90 Series

The ADSC-90 Series of products is a Standard Configuration providing a Dual Spectrum Camera for front viewing and options for either low-light day camera, thermal imaging camera or dual spectrum camera for rear viewing.

Primary Features:

- Front viewing Dual Spectrum Camera System to include:
 - Highly reliable 640 x 480 uncooled long-wave IR camera: 90° FOV
 - Low-light day camera with IR illuminator: 103° FOV
- **Rear viewing** option with either ADC low-light day camera, ATIC thermal imaging camera, or ADSC-90 dual spectrum camera
- Configurable for front, rear and side views for complete Situation Awareness if required
- Driver safety tools
 - Scale grid display
 - Distanceindicator
 - Vehicle pitch / roll indicator
- IP67 rated camera housings purged with dry nitrogen
- Service life up to 55,000 hours
- NATO Support Agency NSN: 5855-47-000-9209
- Custom configurations and color options

Information on data sheet is accurate based on September 2023 specifications and is subject to change. Export requires a valid export license. www.ATRI.LT.com www.ATRI-USA.com

ADSC-90 Dual Spectrum Camera



ATRI TINDS DVE Increases Survivability and Mobility





TINDS – ADSC-90 Series

Standard Thermal Driver Viewer

ADSC-90 Thermal Imaging Camera Specifications

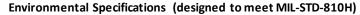
IR Detector	640 x 480, LWIR	
Detector Type	Uncooled VOx Microbolometer	
Pixel Pitch	17 micron	
Frame Rate	60 Hz	
Spectral Band	7.5 – 13.5 micron	
Thermal Sensitivity	<u><</u> 30mK	
Focal Length	7.5 mm / F1.2	
Field of View	90° (H) x 69° (V)	
Video Output	NTSC / PAL	
Video Color	Black-Hot / White-Hot / Green-Hot	
Digital Zoom	Up to 8X	

ADSC-90 Low-Light Day Camera Specifications

Detector	1/2.8" Progressive Scan CMOS
Pixel Array	1937 (H) x 1097 (V); 2.12 Mega Pixels
Focal Length	2.5 mm / F2.6
Field of View	103° (H) x 68° (V)
Min Illumination	0.01 Lux @ F2.5 – 30 IRE 0.005 Lux @ with ICR on 0.0003 Lux with DSS on
IR Illumination	0 Lux with IR illuminator (built in)

ADSC-90 Physical Specifications

Size (H x W x D)	81 x 168 x 169 (mm)
Weight	1.87 kg



High Temperature	Operating: 60°C; Storage: 71℃	
Low Temperature	Operating: -40°C; Storage: -55°C	
Rain	Rate: 1.7 mm/min (4 in/hr)	
Humidity	95% Relative Humidity at 60 °C	
Salt / Fog	Method 509.5 (5% Salt, <u>+</u> 1%)	
Vibration	5-5000 Hz, 2.0 Grms	
Functional Shock	10G, 11ms duration	
IP Rating	IP67 (DustTight/Water1mfor 30 minutes)	

Other Specifications

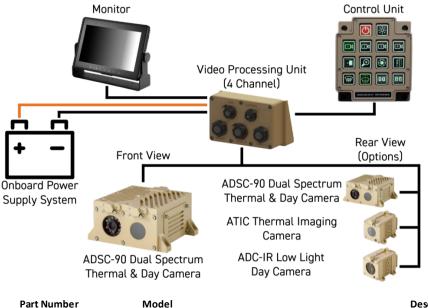
Power	10-36 VDC	
Power Consumption	12W; 19W with heater	

Standard Accessories – Included

Rugged LCD Monitor	10.1 inch standard
Video Processing Unit	4 Channel Input
System Control Unit	
Shock Resistant Protective Case	Transport and Storage
Cables (contact for lengths)	Power Supply Camera Connection Monitor Connection

Optional Accessories

Magnetic Mount	
Camera Cleaning System	



Monitor Display Options Control Unit Capabilities

- Fullscreen
- Split screen

- - Quad screen
- Preset Views (up to 4)
- Image Polarity: BH, WH, GH
 - Digitial Zoom: 2x, 4x, 8x
 - Heating and Cleaning
- Picture-in-picture

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FT TIC



Quad Display Mode

Description

Front: ADSC-90 Dual Spectrum Camera / Rear: No Camera Front: ADSC-90 Dual Spectrum Camera / Rear: ADC-IR Low Light Day Camera Front: ADSC-90 Dual Spectrum Camera / Rear: ATIC Thermal Imaging Camera

- Front: ADSC-90 Dual Spectrum Camera / Rear: ADSC-90 Dual Spectrum Camera

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TINDS-ADSC-90-X-V1 TINDS-ADSC-90-X-V2

TINDS-ADSC-90-X-V3

TINDS-ADSC-90-X-V4

Contact: info@atri.lt www.atri.lt

TINDS ADSC DVE SYSTEM, 640X480, 103° FOV, X, V1

TINDS ADSC DVE SYSTEM, 640X480, 103° FOV, X, V2

TINDS ADSC DVE SYSTEM, 640X480, 103° FOV, X, V3

TINDS ADSC DVE SYSTEM, 640X480, 103° FOV, X, V4

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