

# DVE-A

# DRIVER'S VISION ENHANCER FOR ABRAMS



## PROVIDES COMBAT VEHICLE OPERATORS WITH INCREASED DRIVER'S VISION CAPABILITY, SURVIVABILITY AND MOBILITY

Leonardo DRS' DVE-A improves situational awareness in visually degraded conditions provides critical force protection, continued mission prosecution and operational effectiveness.

The DVE-A was developed specifically for the Abrams Main Battle Tank allowing for the driver to egress safely by using the quick disconnect bracket assembly. Combat proven and fielded in over 2000 U.S. Army Abrams Main Battle Tanks to date, the DVE-A offers the latest in long wave thermal imaging capabilities.

### HIGHLIGHTS

- Day/night 24-hour operation capability in adverse weather conditions
- Ability to see through dust, smoke and other battlefield obscurants
- Enhanced situational awareness, silent watch capability
- Display quick release allows for ease of egress
- Drop in replacement to vision block



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## VIEWING

COMPONENT	DESCRIPTION
Field of View	40° Azimuth x 30° Elevation
Field of Regard	40° Azimuth +/- 25° x 30° Elevation

## INTERFACES

Power Requirement	16 to 32 VDC, 24 VDC nominal
Output	SMPTE 170 on 10.4 inch flat panel display (800 x 600 active matrix LCD)
Digital Interface	RS-232/RS-422
VCR compatibility	All standard NTSC formats

## OPERATIONAL

Reliability	MTBF: 2000 hours
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## TECHNOLOGY

Detector	640 x 480
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Abrams-unique Sensor NSN, 5855-01-599-3102; Army P/N1014303-101 32865  
Abrams-unique Bracket NSN, 5340-01-599-2983; Army P/N1006570-101 32865  
Abrams-unique Cable NSN, 5995-01-600-4075; Army P/N1007812-101 32865

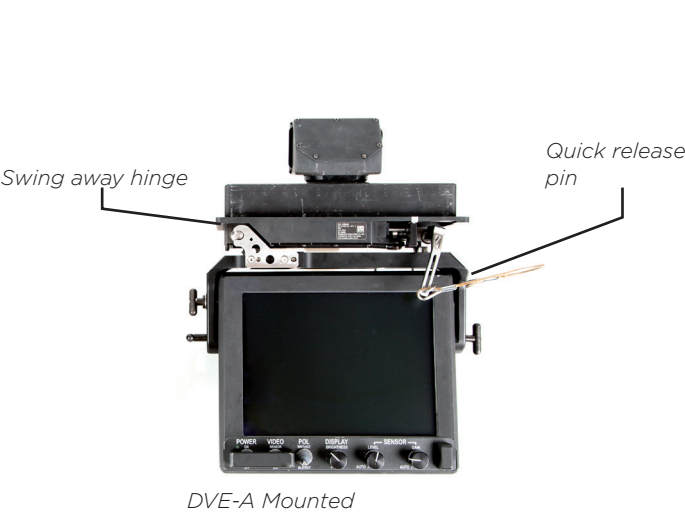
## ENVIRONMENTAL

COMPONENT	DESCRIPTION
Operating Temperature	-37.0°C to +49.0°C
Vibration	Tracked Combat Vehicle
Shock	40g 11ms Sawtooth Pulse
Humidity	88% Condensing @41°C, 10 days
Immersion	10 minutes @ 1 meter (Sensor)
Washdown	40 psig 2-4.5 mm droplet @ 19 inches
Maintenance	Two-level Logistics

## PHYSICAL

Sensor (H x W x D)	16.23 x 13.52 x 6.29 inches 41.22 x 34.34 x 15.95 cm
Display (H x W x D)	9.0 x 10.5 x 4.2 inches 22.86 x 26.67 x 10.67 cm
Sensor Weight	18.5 lbs 8.39 kg
Displays Weight	8.25 lbs 3.74 kg

\*Values shown include an installed display



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