

DVE WIDE

DRIVER'S VISION ENHANCER WIDE



SEE FIRST, UNDERSTAND FIRST, ACT FIRST, AND FINISH DECISIVELY WITH DVE WIDE

Leonardo DRS' DVE Wide provides vehicle operators with enhanced situational awareness for combat and tactical-wheeled vehicles. It improves survivability and mission capability by providing drivers with wider fields of view as well as the elimination of blind spots to safely navigate through dust, sand, haze, smoke, light fog and the blackest night.

The 'front-facing' DVE Wide integrates three state-of-the-art 640 x 480, 17-micron uncooled infrared sensors, which output a stitched video of a 107 x 30 field of view (FOV). The DVE Wide can receive, manage and display video from multiple external cameras on the vehicle. The driver can electronically pan through the 107° total horizontal field of view allowing the driver the ability to see both sides of the road. The vehicle wheel track indicators aid the driver in clearly identifying any potential impediments to safe operation.

The DVE Wide is fully "backwards compatible" with all fielded DVE units, which means that any vehicle currently equipped with a DVE system can be readily upgraded. It is also forward compatible with new, high resolution, touch-screen displays.



DVE WIDE

FOCAL PLANE ARRAY

| COMPONENT | DESCRIPTION |
|-------------------|-----------------------------|
| Detector Type | Uncooled VOx Microbolometer |
| Array Size | 640 x 480 |
| Detector Pitch | 17 μ m |
| Spectral Response | 8 - 14 μ m |

VIDEO

| | |
|--|------------------|
| Frame Rate | 30 Hz |
| Communication Interface (DVE Display Control Module Discretes) | RS-232 / USB 2.0 |
| Video Interface | RS-170, RGB, DVI |

PHYSICAL

| | |
|------------|------------------------------|
| Dimensions | 8.8 W x 5.7 H x 3.7 L inches |
| Weight | < 7.5 lbs. |

ELECTRICAL

| COMPONENT | DESCRIPTION |
|-----------|-------------|
| Voltage | 14 - 40 VDC |
| Power | <14 W |

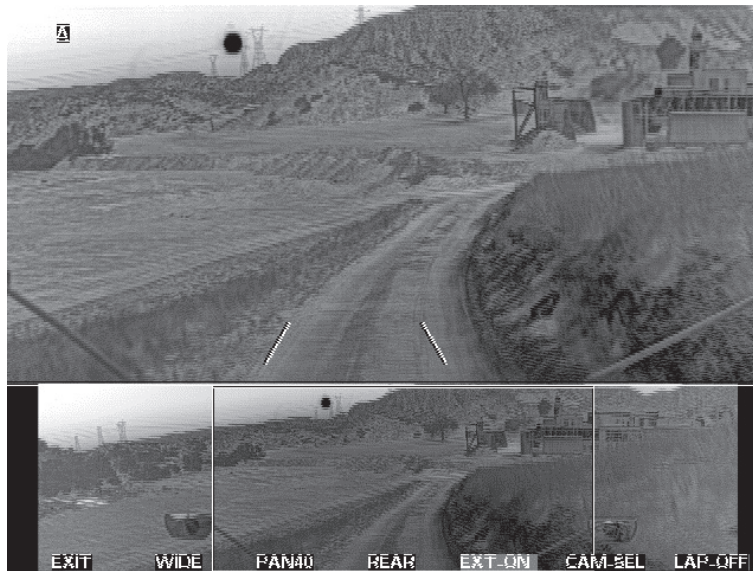
ENVIRONMENTAL

| | |
|-----------------------|-------------------------------|
| Operating Temperature | -37°C to 49°C plus solar load |
| Storage Temperature | -46°C to 71°C |

OPTICS

| | |
|-----|--|
| FOV | 3X 40° x 30° (electronically stitched, providing a seamless 107° x 30° video) |
|-----|--|

DVE WIDE DISPLAY MODE



The pan position indicator on the bottom half of the display indicates what portion of the scene is displayed on the upper part of the display.

Pan40 display mode provides the user with the ability to pan the entire 107° scaled to the full display size.

Electro-Optical Infrared Systems

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