



## GROUND COMBAT SYSTEMS

# S3 Stabilized Sight System

Independently stabilized target acquisition system for enhanced maneuver platform lethality

The S3 is designed to meet the complex operational needs and challenges for a wide variety of ground combat vehicle platforms and battlefield scenarios. Using a variety of payload options, the S3 can be tailored to mission needs and provide crewmen rapid target acquisition response capabilities with extended range performance day, night and in adverse combat conditions.

### CAPABILITIES

- Configurable for cooled HD Mid Wave Infrared (MWIR) or uncooled HD Long-Wave Infrared (LWIR)
- HD color day
- Eye safe laser range finder
- IR and visible pointer
- Embedded target tracking
- Enhanced image processing
- Ethernet communication

## OUR TECHNOLOGY

Leonardo DRS is a world class leader in EO/IR surveillance, situational awareness, and targeting systems for platforms that provide the warfighter the ability to overcome the complexities of the battlefield and improve lethality and survivability. For over fifty years, Leonardo DRS has been an innovative developer and manufacturer of fully integrated EO/IR systems for the Department of Defense and our allies. Land, sea, air and space, Leonardo DRS is a trusted partner for complex and affordable technology solutions.

## FEATURES

- HD MWIR thermal imager with continuous zoom and variable focus or HD LWIR thermal imager with dual fixed field of view and variable focus
- HD visible imager with continuous zoom and variable focus
- Eye safe laser range finder
- Visible laser pointer
- Near IR laser pointer
- Dual axis stabilized gimbal

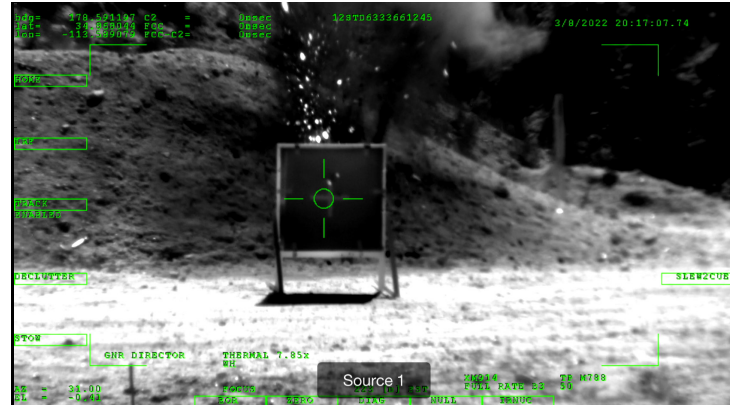
## THERMAL IMAGER

| Component      | Description   |
|----------------|---|
| Type           | Cooled HD MWIR OR<br>Uncooled HD LWIR   |
| Resolution     | 1280 x 960  |
| Spectral Range | MWIR: 3.4 to 4.8 $\mu\text{m}$<br>LWIR: 8 to 14 $\mu\text{m}$   |
| Pixel Pitch    | MWIR: 6 $\mu\text{m}$<br>LWIR: 10 $\mu\text{m}$   |
| FOV/Zoom       | MWIR: 1.6° to 16° HFOV<br>continuous zoom, variable focus<br>LWIR: NFOV 3.63° HFOV,<br>MFOV 15.35° variable focus |

## VISIBLE IMAGER

| Component      | Description  |
|----------------|--|
| Type           | Color CMOS   |
| Resolution     | 1280 x 720   |
| Spectral Range | Visible: 425 – 650 nm<br>Near IR: 820 – 920 nm         |
| FOV/Zoom       | 1.05° to 10.5° HFOV continuous<br>zoom, variable focus |

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## PHYSICAL CHARACTERISTICS

| Component    | Description                             |
|--------------|---|
| Dimensions   | 430 mm (W) x 305 mm (D) x<br>497 mm (H) |
| Weight       | 50 kg maximum                           |
| Power Demand | <7A (avg)/ 34A (peak) at 28VDC          |

## INTERFACES

|         |  |
|---------|--|
| Video   | HD-SDI, 720p, 60 Hz  |
| Control | 1 Gbs Ethernet; 1 RS422/232;<br>discrete enable input, discrete<br>synchronization input |

## GIMBAL

|                    |  |
|--------------------|--|
| Azimuth Travel     | 360° with slip ring<br>-10° to +10° non slip ring version                        |
| Elevation Travel   | -45° to +85°   |
| Stabilization      | <50 $\mu\text{rad}$ (performance is function<br>of specific vibration condition) |
| Angular Resolution | <0.02 mrad   |
| Max Angular Rate   | 90 deg/sec   |
| Angular Accuracy   | 0.2 mrad   |