



# GYROCAM<sup>®</sup> 15DHD

15-INCH DUAL HIGH DEFINITION SENSOR SYSTEM

LOCKHEED MARTIN





## GYROCAM 15-INCH DUAL HIGH DEFINITION SENSOR

The Gyrocam 15-inch Dual High Definition (15DHD) multi-sensor system delivers HD color and mid-wave thermal optics in a modular payload.

Designed for ground, maritime and airborne applications, the 15DHD features four-axis active stabilization for superior image quality and capture while on-the-move.

Part of Lockheed Martin's family of turreted systems, the 15DHD is an evolution of the 15-inch triple sensor. More than 1,100 Gyrocam systems have been fielded to NATO and coalition partners around the world.

### FEATURES

- HD system and image processing
- 56:1 continuous optical zoom – color camera
- 30:1 continuous optical zoom – thermal camera
- Matched fields-of-view
- Autofocus and autotrack
- Four-axis gyro-stabilization

- Modular design for two-level maintenance
- Infrared color pallets for improved situational awareness

### BENEFITS

- Exceptional detection-recognition-identification ranges
- Proven and tested performance in extreme environmental conditions
- Modular design for two-level maintenance
- Post delivery service support
- Customizable training package operator/maintainer

#### Contact Information

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## SPECIFICATIONS

System Type: Four-axis active stabilized, high definition (HD) multi-sensor  
Azimuth: 360 deg continuous  
Elevation:  $\pm 85$  deg

#### HD Thermal Imager

- 1k InSb focal plane
- Sensor size: 1280x1024@60Hz
- Wavelength: 3 to 5 micron, mid-wave (cooled)
- FOV: 38 deg to 1.3 deg
- Effective zoom ratio: 30:1

#### HD Color Camera

- HD format: 720p, 1080i Selectable
- FOV: 37.6 deg to 2.0 deg (720p), optical 3x to 0.67 deg (720p)
- Effective zoom ratio: 56:1

#### Dimensions and Weight

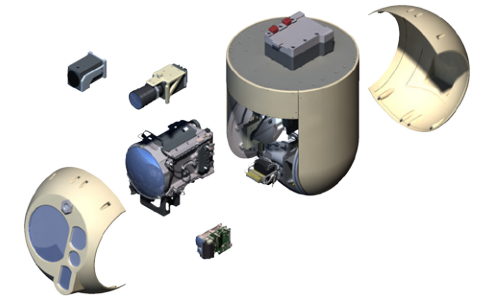
- Gimbal: 15-inch diameter  
35.5 kg (78 lbs)
- IFU: 4.9 kg (11 lbs)
- Hand-held controller: 1.1 kg (2.5 lbs)

#### Environmental

- Designed to MIL-STD-704D, MIL-STD-810F
- Operating temperatures:  $-32^{\circ}\text{C}$  ( $-25^{\circ}\text{F}$ ) to  $57^{\circ}\text{C}$  ( $135^{\circ}\text{F}$ )

#### Data Output

- Video data, SMPTE-292 digital and SMPTE-170 analog
- Electrically isolated RS-232 or 422 command and control data port



The Gyrocam 15DHD features a two-level maintenance concept for reduced overall life-cycle cost.

#### Options

- Eye-safe laser range finder
  - 6.5 km class (standard configuration)
  - 20 km class
- Laser pointer/illuminator

#### Mission Applications

- Mobile reconnaissance
- Counter/explosive ordnance disposal (C-IED/EOD)
- Artillery forward observer (spotter)
- Key infrastructure security
- Border/coastal surveillance
- Search and rescue (airborne and maritime)
- Unmanned aerial vehicles and remotely piloted aircraft
- Lighter-than-air/persistent intelligence, reconnaissance and surveillance

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