

ISIS

INTEGRATED SURVEILLANCE IMAGING SYSTEM

DESIGNED FOR THE WARFIGHTER

The L-3 Brashear Integrated Surveillance Imaging System (ISIS) when integrated with two-axis stabilized remote weapons station provides the warfighter a decisive tactical advantage. The system's thermal sensor with three FOV lens and eyesafe laser rangefinder enables the gunner to identify and engage the enemy at nearly two kilometers. The advanced features allows the warfighter to detect and engage the before the enemy can act.

BENEFITS

- ISIS is matched to the effective ranges of current and future crew-served weapons
- Increased capability day or night with cooled thermal performance
- Increased firepower and lethality
- Long-range target detection and identification ranges matched to crew-served weapons performance
- Developed for lightweight remote weapon station



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SPECIFICATIONS

TARGET ACQUISITION AND FIRE CONTROL MODULE

Day Imaging System	
Color CCD w/27x Zoom optics	· 768 x 494 resolution
Target Identification Probability Range	· 4500 m @ 50%
Scalable FOV	· 1.43° NFOV, 38.6° WFOV
Night Imaging System	
Cooled Infrared	· 3-5 μm, 640x480 20 μm
Target Identification Range	· >2000 m @ 50%
Three FOV	· 2.3° NFOV, 4.6° MFOV, 18.3° WFOV
Focal Length	· 40/160 mm
Image Stabilization	· Performance · Electronic image stabilization under during gun fire
Laser Rangefinder	
Eyesafe	· ANSI Z136.1-2000
Rep Rate	· 0.7 Hz rep rate
Accuracy	· 2m at 2.2 Km and 4m at 5 km
Ballistic Computer	
Corrected Aimpoint, feed to drive mount	· Aimpoint corrected for ballistics, range, environmental. · Improved gunner probability of first round hit
System Weight	
Above roof line	· 24.5 lbs.

SYSTEM COMPUTER AND DISPLAY

Display Unit Control	Function
Power On/Off Switch	· Control of host vehicle +28VDC supply to the system
System Arm Armed/Safe Switch	· Arms/safes firing solenoid
Sgl Fire/Safe Switch	· Fires Smoke Grenade Launcher
Charger Charge/Safe Switch	· Electrically drives the weapon bolt to load the weapon · SAFE position drives the weapon bolt to rear
Safety Override	· On/Off control of fire control safety circuit
Brightness Control	· Adjusts the Display Brightness for Day and Night viewing

HANDHELD CONTROLLER/JOYSTICK

Joystick Control*	Function
Trigger (guarded) Switch	· Weapon fire, when lase to target has been accepted
Deadman Switch	· Must be engaged to move gimbal, activate LRF, or fire the weapon
Lase Switch	· Activates the LRF to obtain range-to-target value · Also sets Surveillance, or Sector Scan Mode
Focus Slide	· Adjusts the day/thermal image focus on Display Unit
Joystick X-Y Switch	· System control joystick allows traverse/highlighting of buttons on the touchscreen. · Increments/Decrements target range value · In PREP Mode, allows traverse through menu selections and data options · When in any mode other than PREP, provides Azimuth and Elevation commands to the weapon mount
Stab Switch	· Enable/Disable · Controls the stabilization function of the gimbal platform
Accept Switch	· Operator acceptance of ballistic solution · Also enables - Accept menu selections and data options
Camera Change Switch	· Change image source from the Day Imager or the Thermal Imager



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