

ATS-72D

ELECTRO-OPTIC SENSOR SYSTEM

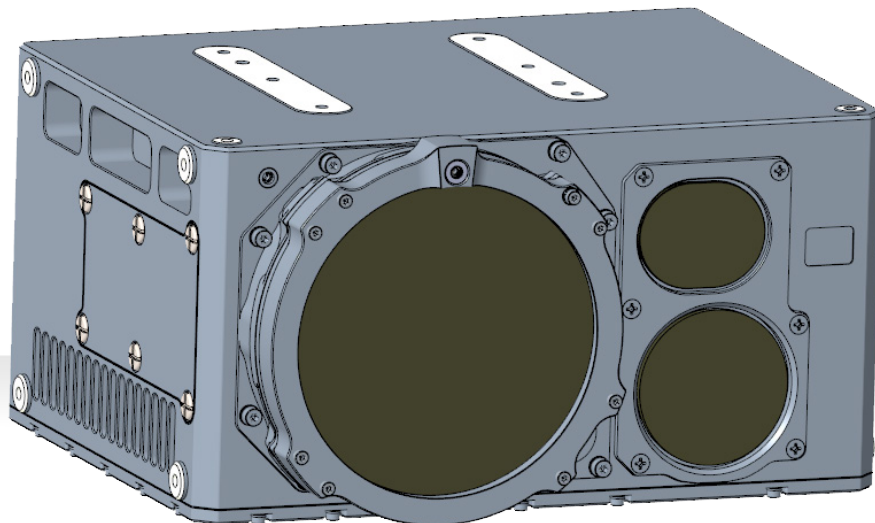
HIGH RESOLUTION THERMAL DETECTOR

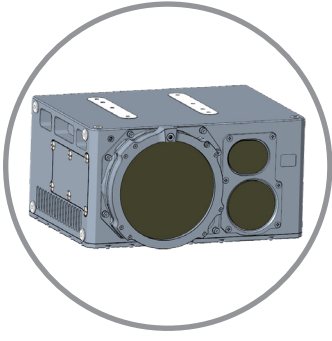
DAY TV

EYE SAFE LASER RANGE FINDER

CONTINUOUS ZOOM CAPABILITY

RUGGIZED





ATS-72D

ELECTRO-OPTIC SENSOR SYSTEM

Applications

- Sea Platform Applications
- Remote Weapon Systems

Main Features

- Compact, Rugged, Military Hardened
- Uncooled Thermal Camera
- Continuous Zoom DayTV Camera
- Eye Safe Laser Range Finder
- Synchronous Day TV and Thermal video output capability
- Day TV/Thermal Video Selection
- Freezing Capability (Day TV / Thermal)
- Polarity Change (Thermal)
- Manuel/Automatic Contrast and Brightness Adjustment (Day TV/Thermal)
- Target Range Measurement Capability
- Laser Reflection Selection
- Laser Blank Signal
- Automatic Image Optimization and Enhancement
- Built In Test Capability
- Remote Control Capability

System Interfaces

- Power Interface: 18V-33V
- Communication Interface: RS-422, Ethernet
- Video Interface: Analog Video (PAL), Ethernet

Environmental Conditions

- Operating Temperature : -32°C / +55°C
- Storage Temperature : -40°C / +70°C
- Environmental Conditions Standard : MIL-STD-810 H

Electromagnetic Conditions

- MIL-STD-461G Surface Ships (Applicable)

Dimension and Weight

- Dimension (h x w x d) : Maximum 250 x 300 x 350mm (Except Connectors)
- Weight : Maximum 15 kg

Technical Specifications

Thermal Camera

- Sensor Type : Uncooled, 8-14 μ m
- Sensor Format : 640 x 480
- Continuous Zoom Capability
- Field of View
 - From 4° to 25 Continuous Zoom ($\pm$ 10)
 - 5 Preset Field of View (Horizontal x Vertical)
 - Preset 1 : 4° x 3°
 - Preset 2 : 6° x 4.5°
 - Preset 3 : 10° x 7.5°
 - Preset 4 : 18° x 13.5°
 - Preset 5 : 25° x 18.75°
- Electronic Zoom : x2, x4

Day TV Camera

- Sensor Type : CCD/CMOS
- Sensor Format : 1920 x 1080
- Continuous Zoom Capability
- Field of View
 - 7 Preset Field of View (Horizontal x Vertical) (for Analog Video)
 - Preset 1 : 2° x 1.6°
 - Preset 2 : 4° x 3.2°
 - Preset 3 : 6° x 4.8°
 - Preset 4 : 10° x 8°
 - Preset 5 : 18° x 14.4°
 - Preset 6 : 25° x 20°
 - Preset 7 : 40° x 32°
- Electronic Zoom : x2, x4

Laser Range Finder

- Type : Class 1, Eye Safe
- Wavelength : 1560 $\pm$ 40 nm
- Range : 50m - 10000m
- Accuracy : $\pm$ 5m (beyond 5000m)
- Measurement Frequency: 30 measurement/minute