

ATS-72

ELECTRO-OPTIC SENSOR SYSTEM

HIGH RESOLUTION THERMAL DETECTOR

DAY TV

EYE SAFE LASER RANGE FINDER

CONTINUOUS ZOOM CAPABILITY

RUGGEDIZED





ATS-72

ELECTRO-OPTIC SENSOR SYSTEM

Applications

- Armored Vehicles
- Remote Controlled Weapon Systems

Main Features

- Compact, Rugged, Military Hardened
- Uncooled Thermal Camera
- Continuous Zoom Day TV 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 Blanking 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 : -45°C / +70°C
- Environmental Conditions Standard : MIL-STD-810 G

Electromagnetic Conditions

- MIL-STD-461G (Ground, Army: Applicable)

Dimension And Weight

- Dimension (h x w x d) : 160 x 300 x 250mm
(Exc. Connectors)
- Weight : Less than 11 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 FOVs (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

Laser Pointer (Optional)

- Wavelength : 830 $\pm$ 10 nm

