

# ATS-65D

ELECTRO OPTIC SENSOR SYSTEM

MID-WAVE IR DETECTOR

COLOR DAY TV

EYE SAFE LASER RANGE FINDER

CONTINUOUS ZOOM CAPABILITY

COMPACT AND RUGGEDIZED





# ATS-65D

## ELECTRO OPTIC SENSOR SYSTEM

### Applications

- Sea Platform Applications
- Remote Weapon Systems

### Main Features

- Designed for Maritime Environment
- Compact, Rugged, Military Hardened
- VGA Cooled Thermal Camera
- Continuous Zoom Day TV Camera
- Eye-Safe Laser Range Finder
- Separate Simultaneous Day TV & Thermal Video Output Capability
- Day TV/Thermal Video Switching Capability
- Day TV/Thermal Video Freezing Capability
- Thermal Video Polarity Selection
- Automatic/ Manual Contrast and Brightness Adjustment
- Target Range Measurement Capability
- Laser Reflection Selection
- Laser Blanking Signal
- Automatic image optimization and image enhancements
- Built in Test Capability
- Remote Command and Control Capability

### System Interfaces

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

### Environmental Conditions

- Operating Temperature : -35°C to +55°C
- Storage Temperature : -40°C to +65°C
- Environmental Spec : MIL-STD-810 G

### Electromagnetic Conditions

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

### Dimensions and Weight

- Dimensions (h x w x d) : 305 x 130 x 240 mm  
(excl. connectors)
- Weight : Less than 10 kg

### Technical Specifications

#### Thermal Camera

- Sensor Type : Cooled, 3-5  $\mu\text{m}$
- Sensor Format : 640 x 512
- Continuous Zoom Capability
- Field of View
  - Continuous from 2° to 25° ( $\pm\%10$ )
  - 5 Preset FOV (Horizontal x Vertical)
    - Preset 1 (NFOV) : 2.0° x 1.6° ( $\pm\%10$ )
    - Preset 2 (MNFOV) : 3.5° x 2.8° ( $\pm\%10$ )
    - Preset 3 (MFOV) : 6.0° x 4.8° ( $\pm\%10$ )
    - Preset 4 (MWFOV) : 10° x 8.0° ( $\pm\%10$ )
    - Preset 5 (WFOV) : 25° x 20° ( $\pm\%10$ )
- Electronic Zoom : x2
- Cool-down Time : 7 min. (@23°C)

#### Day TV Camera

- Sensor Type : CCD/CMOS
- Sensor Format : 1920 x 1080
- Continuous Zoom Capability
- Field of View
  - Continuous from 1.7° to 44° ( $\pm\%10$ )
  - 5 Preset FOV (Horizontal x Vertical)
    - Preset 1 (NFOV) : 2.0° x 1.6° ( $\pm\%10$ )
    - Preset 2 (MNFOV) : 3.5° x 2.8° ( $\pm\%10$ )
    - Preset 3 (MFOV) : 6.0° x 4.8° ( $\pm\%10$ )
    - Preset 4 (MWFOV) : 10° x 8.0° ( $\pm\%10$ )
    - Preset 5 (WFOV) : 25° x 20° ( $\pm\%10$ )
- Electronic Zoom : x2, x4

#### Laser Range Finder

- Type : Class 1, Eye Safe
- Wavelength : 1.54  $\mu\text{m}$
- Range : 100m - 10000m
- Accuracy :  $\pm 5\text{m}$
- Measurement Rate : 20 measurement/minute

