

# ATMACA

ELECTRO OPTICAL SURVEILLANCE  
SYSTEM

COOLED MWIR THERMAL IMAGING SENSOR  
HIGH DEFINITION DAY TV CAMERA  
SUPERIOR STABILIZATION  
HIGH PERFORMANCE LASER RANGE FINDER





# ATMACA

## ELECTRO OPTICAL SURVEILLANCE SYSTEM

### Applications

- Manned/Unmanned Aerial Vehicles
- Border/Coastal Security Applications
- Long Range DRI Performance

### Main Features

- Compact and Light-Weight System
- Single-LRU System
- High Quality IR Camera
- High Quality TV Camera
- Eye-Safe Laser Range Finder
- External GPS Input
- Advanced Image Processing
- Target Tracking
- Target Geo-Location
- Accurate 4 axis Stabilization

### Environmental Conditions

- Operating Temperature : -32°C/+50°C
- Storage Temperature : -32°C/+60°C

### Standard Accessories

- Stabilized Gimbal Assembly
- Standard cable kit

### Optional Accessories

- Operator Control Unit

### Technical Specifications

- System type : Gyro-stabilized
- Gimbal size : 26 dia x 35 h cm
- Gimbal weight : 10 kg (max.)

### Thermal Imaging Performance

- Sensor type : 640x512 FPA
- Wavelength : 3-5  $\mu$ m
- Electronic Zoom : Up to 4X
- Optical Zoom : Continuous
- Wide FOV : 16.8° x 13.5°
- Medium FOV : 6.0° x 4.8°
- Narrow FOV : 2.0° x 1.6°

### Daylight Imaging Performance

- Sensor type : Daylight CMOS
- Electronic Zoom : Up to 4X
- Resolution : 1920x1080, 2.38MP
- Optical Zoom : Continuous
- Wide FOV : Up to 60° of HFOV
- Narrow FOV : Down to 2.3° of HFOV

### Laser Range Finder Performance

- Laser Class : Class 1, Eye safe
- Max Range : 4 km (10km optional)
- Accuracy : 5 m
- Max Rep. Rate : 10 ppm

### Laser Pointer Performance

- Wavelength : NIR
- Power : 200 mW

### Gimbal Specifications

- Az Travel Range : 360° continuous
- El Travel Range : 360° continuous
- Slew rate : Up to 110° /sec
- Stabilization : < 30  $\mu$ Rad

### Interface

- Video Output : Analog PAL/Analog HD
- Feed Voltage : 18V DC to 36V DC
- Power : 100 W

