

# FINCH

MINIATURE ELECTRO OPTICAL  
PAYLOAD

UNCOOLED LWIR THERMAL IMAGING SENSOR  
30X ZOOM DAY TV CAMERA  
COMPACT MULTI AXIS STABILIZED PLATFORM





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## MINIATURE ELECTRO OPTICAL PAYLOAD

### Applications

- Compact Size UAS's
- Perimeter Security
- Close Range Surveillance

### Main Features

- Compact and Light-Weight System
- Single-LRU System
- Uncooled IR Camera
- Zoom TV Camera
- Advanced Image Processing
- 2/3-Axis Gyro-Stabilization

### Environmental Conditions

- Operating Temperature : -10°C/+50°C
- Storage Temperature : -20°C/+50°C

### Technical Specifications

- System type : Gyro-stabilized
- Gimbal size : 12 cm dia x 20 cm h
- Gimbal weight : <950 gr (w/o options)

### Thermal Imaging Performance

- Sensor type : 640x480 Uncooled
- Wavelength : 8-12  $\mu\text{m}$
- Optics : 35mm
- FOV( $\pm 10\%$ ) : 17.4°

### Daylight Imaging Performance

- Sensor type : CMOS
- Resolution : 1080p
- Zoom : 30X
- Wide FOV : 63.7°
- Narrow FOV : 2.3°

### Gimbal Specifications

- Az Travel Range : 360° continuous
- El Travel Range : +45°/-45°
- Roll Travel Range : +15°/-15°

### Interface

- Video Output : Ethernet H.264 Compressed
- Communication : Ethernet
- Power : <20W, 12VDC