

# Tower Scout

TowerScout is a rugged detection and surveillance system designed specifically for operations on poles or towers in extreme environments. Wide area coverage is delivered both day and night, presenting the user with high resolution thermal and TV imagery for short and long range target acquisition and identification. The system is fully net-centric providing dual streaming IP video and TASS compatible command & control features on a single Ethernet link. Argon ST's TowerScout provides unparalleled flexibility and scalability to meet your needs - now and into the future.

TowerScout is comprised of two key elements – The Sensor Module and the System Interface Unit (SIU). In its standard configuration, the Sensor Module employs the Argon ST 300-series cooled, midwave thermal imager and a rugged color TV camera subsystem for exceptional long-range 24/7 data collection. The pan & tilt positioning device supports both high speed target acquisition and slow speed tracking modes. The SIU, available in either a rack mounted or NEMA enclosure configuration, provides network connectivity, image stabilization, video streaming, and all external interfaces.

## Applications

- Homeland Security
- Flightline Security
- Maritime & Port Surveillance
- Border Patrol/ Perimeter Monitor
- Critical Infrastructure Security

## Key Features

- High Resolution Day/Night Sensing
- Auto Cueing
- Network Addressable
- Scalable
- Rugged for Extreme Environments



# Tower Scout

## Thermal Sensor

320 x 240 InSb FPA , 3 – 5 micron  
 Narrow: 1.2° H x 0.9° V  
 Medium: 5.0° H x 3.8° V  
 Wide: 22.0° H x 16.5° V  
 Image enhancement and 2X e-zoom  
 (Optional) 4X microscanning

## Alternate Thermal Sensor

640x 480 InSb FPA , 3 – 5 micron  
 Narrow: 16° H x 1.2° V  
 Medium: 6.6° H x 5.0° V  
 Wide: 28.7° H x 21.7° V  
 Image enhancement and 2X e-zoom

## Standard Visual Camera

1/4Inch Color CCD  
 Day/Night selectable operation  
 27X Continuous Zoom  
 450+ TV Lines  
 Environmentally sealed with integral sunshield

## Alternate Low - Light Visual Camera

½ Inch IT Color CCD  
 22X Continuous Zoom  
 Electronic Zoom to 4X  
 Auto Iris with Manual Override  
 480 TV Lines  
 0.01 lux @ f1.2 (peltier cooled)  
 Environmentally sealed with integral sunshield

## System Interface Unit (SIU)

Ethernet or Serial video and control  
 IP addressable, TASS compatible protocol  
 MPEG4/2 streaming video, NTSC video  
 Electronic image stabilization  
 Local power control

## Size

Sensor Head: 20" L x 27" W x 12"H  
 SIU: 24" L x 6" W x 24" H

## Weight

Tower- Mounted Sensor Head: 75 lbs  
 Remote SIU: 35 lbs

## Power

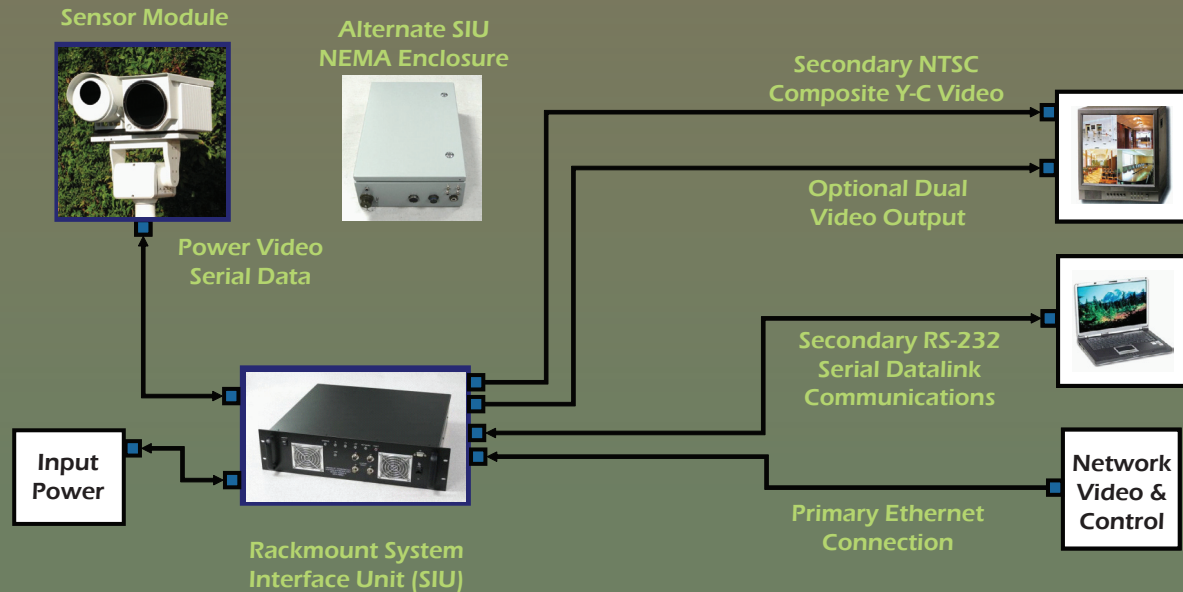
24VDC, 150W nominal, 500W peak

## Environmental

Meets NEMA 4X, IP67 specifications  
 Integral Sun Shields  
 -20°C to +50°C Operational Performance  
 MIL-SPEC Interface Connectors

## Options

Laser Rangefinder  
 Uncooled Thermal Imager



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