

EOSS 250TC/250TC-S

Long Range Thermal Imaging System

EOSS 250
EOSS 250-S
Tri-Field



The Axsys EOSS 250TC is a premier long-range surveillance and security solution for mobile and stationary land, air, and sea related operations.

The EOSS 250TC is widely deployed throughout the world protecting ground troops in forward operating bases through programs such as TASS, C-RAM, and FPS-2, and securing borders and protecting critical infrastructure.

The EOSS 250TC is a tri-field-of-view (17, 60, and 250mm) imaging system and is available with an advanced cooled sensor in a 320 x 256, or optional 640 x 512, focal array for maximum resolution (EOSS 250TC-S). The EOSS 250TC has an integrated visible camera with 26x optical zoom and is mounted on a 360° precision Axsys APS 50 pan and tilt system. The camera also has an optional laser rangefinder and laser illuminator/pointer. The integrated joystick controller operates the systems with push button interaction.

www.axsys.com

FEATURES

- Cooled 3-5 μ m infrared detector
- 320 x 256 focal plane array
- 640 x 512 focal plane array
- Boresighted CCTV with 26x zoom for visible detection
- Tri-field-of-view – 17mm, 60mm, 250mm (31.5°, 9.1°, 2.2°)
- Integrated precision pan and tilt system
- Integrated controller and joystick
- Optional laser rangefinder
- Auto and manual focus

BENEFITS

- Easy integration with mobile and fixmount surveillance applications
- Superior imaging capabilities improves target recognition
- Rugged design ideal for use in harsh environments
- High MTBF ensures low cost of ownership

EOSS 250TC/250TC-S

System Specifications

Video format	RS-422
Power Requirements	18-28VDC (direct to P/T), 100-240VAC or 12VDC (with DCU)
Environmental	Unit sealed and dry nitrogen backfilled Front Element Defroster Operating Temperature Range: -32° C to +60° C Non-Operating Temperature Range: -33° C to +71° C
Controls	Controls available on a handheld joystick, or through a PC via an RS-232/422 link Proportional Pan and Tilt speed controls Field of View and Focus Slaving: Visual/Thermal Field of View Switching Focus (Auto/Manual) Auto Scan with 10 table of 10 user-defined presets, variable speed, dwell, and camera selection
Weight	~60 lbs (27kg) (Pan/tilt head & sensors)

Visible Camera Characteristics

Sensor	¼" IT CCD (Super HAD) Approx. 630k pixels (NTSC) Approx. 740k pixels (PAL)
FOV (26x Optical Zoom)	42° to 1.6°, Continuous Optical Zoom
Digital Zoom	12x
Resolution (TV lines)	470 TV lines NTSC (460 PAL)
Min. Illumination	<2.0 lux (1/60 sec), 0.05 lux (1/4 sec)
Signal to Noise	>50dB

Thermal Camera Characteristics

EOSS 250 Detector	320 x 256 InSb
EOSS 250-S Detector	640 x 512 InSb
Spectral Band	3-5µm
Type	Motorized Remote Focus and Tri-Field of View 17/60/250mm Optical System
f/#	4
Field of View	31.5° x 23.9° (Wide) 9.1° x 6.9° (Medium) 2.2° x 1.65° (Narrow)
Controls/Features	High Sensitivity Mode Multiple Color Palettes Inverse Polarity

Pan/Tilt Head

Pan	360° Continuous
Tilt	±60°
Position Rate	Pan <0.1° to >300°/second Tilt <0.1° to >300°/second

