

E OSS-SU



- EOSS-50SU**
- EOSS-75SU**
- EOSS-125SU**
- EOSS-150SU**

Axsys' EOSS-SU systems are highly versatile and reliable single field of view short to mid-range thermal solutions, providing mobile and stationary security and public safety advantages in a compact and affordable integrated package.

Available in a choice of four focal lengths to accommodate specific requirements and detection needs, the EOSS-SU thermal imager operates in the 7-14 μ m spectral region, incorporating uncooled VO_x microbolometer technology in a 320 x 240, 51 μ m pitch focal plane array. Axsys' proven proprietary all germanium optical system enables the sensor to operate at its maximum capability. The optical front element, equipped with an automatically controlled defroster, is protected with a proprietary diamond-like hard carbon coating designed to withstand the harshest of conditions, while the interior elements utilize extremely efficient anti-reflection coatings, providing outstanding transmission. EOSS-SU systems are self-contained in a dry nitrogen backfilled environmentally sealed enclosure.

The EOSS-SU system is ready out of the box for plug and play operation. The thermal camera ships with an integrated pan/tilt mounting. System power supplies are available housed in either a NEMA 4X enclosure, or an indoor rack-mountable case. Two Joystick options are available for control, as well as remote control via PC over an RS232/422 link.

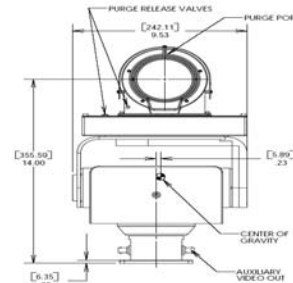
Axsys provides leading-edge IR equipment to the security and surveillance sector. Axsys' proprietary optical designs, state-of-the-art laboratories, and vertically integrated manufacturing capabilities ensure maximum performance and dependability.

Security/Surveillance

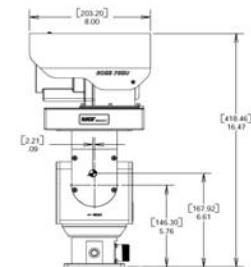
Short to Mid-Range Thermal Imaging Cameras

Features Include:

- Auto Focus
- Multiple Color Palettes
- Dry Nitrogen Backfilled
- Integrated Pan/Tilt Mounting
- Optional Controller and Joystick
- Mobility of an Integrated Package
- Uncooled 7-14 μ m VO_x Microbolometer
- Available in 18.5°, 12.4°, 7.5° and 6.2° Fields of View
- Target Detection: Man up to 1.5km, Vehicle up to 3.5km



EOSS-75SU Front View



EOSS-75SU Side View



EOSS-SU System Specifications

Axsys Part Number	23052-602 (50mm) 23053-602 (75mm) 23028-602 (125mm) 23054-602 (150mm)
Video Format	CCIR601 NTSC or PAL-M, or Differential
Frame Rate	60 Hz NTSC, 50 Hz PAL
Serial Interface	RS422
Power Requirements	110/220V AC, 50/60Hz
Environmental	<ul style="list-style-type: none"> Unit is sealed and backfilled with dry nitrogen. Front Element Defroster Operating Temperature Range: -32°C to +49°C Non-Operating Temperature Range: -33°C to +71°C
Controls	<ul style="list-style-type: none"> Controls available on a hand held joystick, on a tabletop display and control unit, or through a PC via an RS-232/422 link Proportional Pan and Tilt speed controls. Focus (Auto/Manual) Auto Scan with 10 tables of 10 user-defined presets, variable speed, dwell, and camera selection
Weight	< 32 lbs.(14.5kg)(Pan/tilt head & sensors)

Thermal Camera Characteristics

Detector	320 x 240 Uncooled VOx Microbolometer, 51µm pitch
Spectral Band	7-14µm
Detector MTBF	≥ 10,000 hours
Type	Motorized Remote Focus Optical System
f/#	1
Field of View	18.5° x 14° (50mm) 12.4° x 9.3° (75mm) 7.5° x 5.6° (125mm) 6.2° x 4.7° (150mm)
NETD	≤ 60mK
Controls/Features	<ul style="list-style-type: none"> Multiple Color Palettes Inverse Polarity



Pan/Tilt Head

Pan	+/- 217.5°
Tilt	-16° to +40°
Accuracy	0.25°
Repeatability	0.25°
Position Rate	Pan ≤ 0.2° to ≥ 35°/second Tilt ≤ 3° to ≥ 12°/second

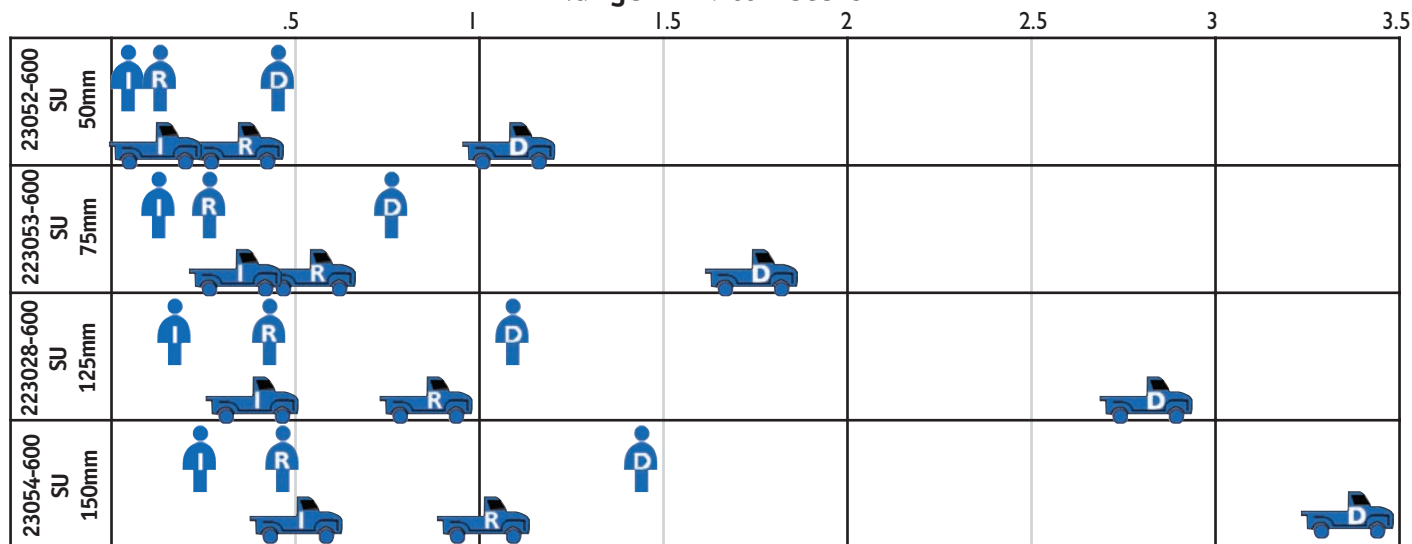
Range Performance

D = Detection
R = Recognition
I = Identification

GREEN = Good Conditions
RED = Poor Conditions
BLUE = Same in all conditions

 = Target Size (1 x 1m)
 = Target Size (2.3 x 2.3m)

Range in Kilometers



AXSYS TECHNOLOGIES, IR SYSTEMS, INC.
282 MAIN STREET • SALEM, NH 03079 • USA
+1.603.898.1880 • FAX: +1.603.893.4359
www.axsys.com

Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice. Export is subject to US Government regulations.



DS007-0406