SURVEILLANCE • SECURITY • PUBLIC SAFETY

EOSS S-SU

Security/Surveillance

EOSS *25-S-SU*
EOSS *37-S-SU*
EOSS *50-S-SU*

Long Wave Thermal Imaging System

Features Include:

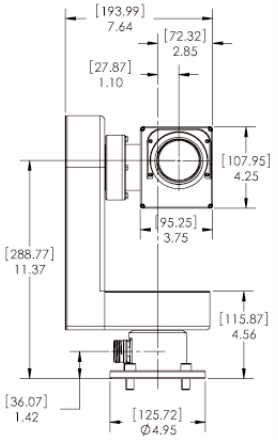
- Auto & Manual Focus
- Remote Control
- Multiple Color Palettes
- Dry Nitrogen Backfilled
- Integrated Pan/Tilt Mounting
- Optional Controller and Joystick
- Available in 17.1°, 11.5°, and 8.6° Fields of View
- Uncooled 8-14µm VO_X Microbolometer Technology (23.5µm)

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.

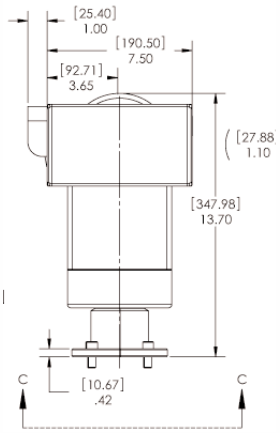
Available in a choice of three focal lengths to accommodate specific requirements and detection needs, the EOSS SU thermal imager operates in the 8-14µm spectral region, incorporating uncooled VO_X microbolometer technology in a 320 x 240, 23.5µm pitch focal plane array. Axsys' proven proprietary all 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, as well as remote control via PC over an RS232/422 link, are available for control.

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.



EOSS S-SU Front View



EOSS S-SU Side View

AXSYS TECHNOLOGIES

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EOSS S-SU System Specifications

Axsys Part Number	• 23206-60x (25mm) • 23209-60x (37.5mm) • 23232-60x (50mm).
Video Format	NTSC/PAL/Differential.
Serial Interface	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: -30°C to +60°C. • Non-Operating Temperature Range: -40°C to +71°C.
Controls	• 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). • Autoscan with 10 tables of 10 user-defined presets, variable speed, dwell, and camera selection.
Weight	~21 lbs. (9.55kg) (Pan/tilt head & sensor).

Thermal Camera Characteristics

Detector	320 x 240 Uncooled VOx Microbolometer, 23.5µm pitch.
Spectral Band	8-14µm.
Type	Motorized Remote Focus Optical System.
f/#	1.0
Field of View	• 17.1° x 12.9° (25mm) focal length • 11.5° x 8.6° (37.5mm) focal length • 8.6° x 6.5° (50mm) focal length.
NETD	≤ 75mK.
Controls/Features	• Multiple Color Palettes. • Inverse Polarity. • Auto Focus • Manual Gain/Offset

Pan/Tilt Head

Pan	360° continuous.
Tilt	-80° to +30° minimum.
Accuracy	0.25°.
Repeatability	0.1°.
Position Rate	Pan < 0.1° to >50°/second. Tilt < 0.1° to >50°/second.

Construction of Axsys Part Numbers

To construct Part Numbers:
- start with system code;
- add other desired options alphabetically, excepting that "P" must be last;
- then add kit number (60x).

Example: 23206H1VnP-602

Code	*Feature Referenced & Available Options*	*Example (sample part number plus code)*
-600	EOSS kit with monitor, VCR, and cable reel in case	23206-600
-601	EOSS kit less monitor, VCR, and cable reel in case	23206-601
-602	EOSS system with no support accessories	23206-602
-603	EOSS kit, NEMA rated DCU with AC and DC cable added	23206-603
H	IP over IEEE 802.3	23206H-603
H1	IP over IEEE 802.3; IPv6 Compliant; H.264 Video Compression	23206H1-602
P	PAL Video Format	23206**P-602**
Vnn	Paint Color (default = Gloss White; V9 = Sand; contact Axsys for other options)	23206**V9-600**

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