

SURVEILLANCE • SECURITY • PUBLIC SAFETY

LanScout50S, 75S, & 125S



The Axsys LanScout series of long wave uncooled thermal imagers offers effective surveillance solutions delivered in a economic compact package. Exhibiting unsurpassed reliability, the LanScout imagers provide striking thermal pictures every time.

LanScout single field of view cameras provide clear long wave thermal images in three basic configurations of focal length and field of view: the LanScout50S (9.2° x 6.9° FOV), the LanScout75S (6.1° x 4.6° FOV), and the LanScout125S (3.7° x 2.8° FOV). All S-type LanScouts incorporate uncooled VO_x microbolometer technology in a 320 x 240, 25µm pitch focal plane array. Sensors operate in the 7-14µm spectral region; systems are immune to solar glint and provide high transmission through smoke or aerosols. Axsys' proprietary germanium optical system enables the uncooled sensor to operate at its maximum capability, while extremely efficient coatings on interior elements enhance transmission performance. The optical front element, equipped with an automatically controlled defroster, is protected with Axsys' proprietary diamond-like hard carbon coating designed for use in the harshest of environments; a dry nitrogen backfilled environmentally sealed housing eliminates the need for additional enclosures. Axsys' user-friendly plug and play camera operation and RS232/422 remote control capability permit ease of integration into any client-based security system.

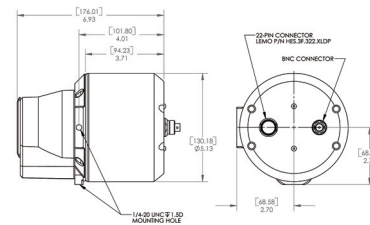
Axsys provides leading-edge IR equipment to the security and surveillance sector. Axsys' proprietary optical designs, state-of-the-art laboratories, and vertically integrated manufacturing capabilities ensure maximum performance and dependability.

Security/Surveillance

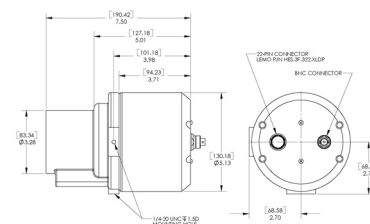
Long Wave Thermal Imaging Cameras

Features Include:

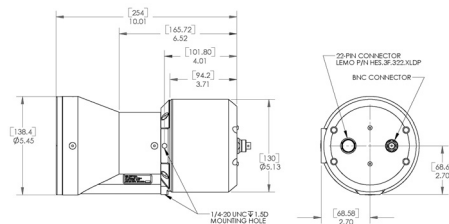
- Auto Focus
- Multiple Color Palettes
- Environmentally Sealed
- Dry Nitrogen Backfilled
- Remotely Controlled
- Uncooled VO_x Microbolometer Technology (25µm)
- Available in 9.2°, 6.1° and 3.7° Fields of View
- Target Detection: Man >3.6km, Vehicle >6.2km



LanScout50S, Side and Rear Views



LanScout75S, Side and Rear Views



LanScout125S, Side and Rear Views



IR SYSTEMS, INC

LanScout 50S/75S/125S System Specifications

Axsys Part Number	23125M LanScout50S, 23126M LanScout75S, 23127M LanScout125S.
Video Format	CCIR601 NTSC or PAL.
Frame Rate	60 Hz NTSC, 50 Hz PAL.
Serial Interface	RS-232 or RS-422.
Power Requirements	4-12V DC < 5 watts typical @ steady state, 25°C.
Environmental	<ul style="list-style-type: none"> Unit sealed and dry nitrogen backfilled, rated IP67. Front Element Defroster. Operating Temperature Range: -20°C to +50°C. Non-Operating Temperature Range: -40°C to +70°C.
Controls	<ul style="list-style-type: none"> Controls available on a hand held pendant, on a rack-mounted controller, or through a PC via an RS-232/422 link.
NETD	≤ 60mK.
Mounting	1/4-20 Tripod Interface. Axsys AntiVibration Mount (optional).

System Characteristics (cont'd)

Weight	LanScout50S ~ 4.6lbs. (2.1kg), LanScout75S ~ 4.4lbs. (2.0kg), LanScout125S ~ 5.1lbs. (2.3kg).
Length	LanScout50S 7.8" (19.84cm), LanScout75S 8.3" (21.13cm), LanScout125S 10.8" (27.38cm).

Sensor Specifications

Detector	320 x 240 VO _x Uncooled Microbolometer FPA, 25µm pitch.
Spectral Band	7-14µm.
Detector MTBF	≥ 10,000 hours.



Optical Characteristics

Spectral Range	7-14µm.
f/#	1.
Lens Features	Motorized remote operation. Auto and manual focus adjust.
Field of View	LanScout50S 9.2° x 6.9°, LanScout75S 6.1° x 4.6°, LanScout125S 3.7° x 2.7°.


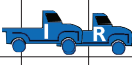






















Range Performance

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

	1	2	3	4	5	6	7	8	9	10
50MM	 	 	 	 						
75MM	 	 	 	 						
125MM	 	 	 	 						



AXSYS TECHNOLOGIES, IR SYSTEMS, INC.
24 SIMON STREET • NASHUA, NH 03060 • USA
+1.603.864.6300 • FAX: +1.603-864-6450
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.



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