



ORDERING INFORMATION

LRAD-950RXL-G	LRAD-950RXL remotely operated, pan and tilt, long range communication system.
---------------	---

INCLUDED ACCESSORIES

HD Daylight Camera	HD video camera with adjustable boresight mount 30x optical zoom lens.
Connection and Cable Kit	Provided for configuration and testing. Cables for permanent installation not included.
Surveillance Software	TCP/IP network control and easy integration with other network enabled sensors. The included LRAD Controller software allows for full command and control of all LRAD 950RXL functions, including camera zoom controls, movement and broadcast of live or prerecorded audio. The LRAD Controller also provides detailed health diagnostics.

OPTIONAL ACCESSORIES

Software API	The software Application Programming Interface enables systems integrators to quickly and easily develop applications that allow the LRAD to receive position and tracking commands from other networked sensors. As part of an integrated system, the LRAD 950RXL can be programmed to respond to alarms and infrared, or integrated with radar to automatically respond to potential threats.
Commissioning	Check installation, wire connection and system start up to confirm proper operation (required for warranty).
Maxa Beam Kit	12 million candlepower in a lightweight, mounted searchlight, illuminates targets up to 3,500 meters away.
Power Supply	Ruggedized AC to DC power supply, rated for outdoor installation.



DIRECTIONALITY, POWER & RANGE

- › Powerful, intelligible voice communications up to 3,000 meters
- › Safely communicate beyond standoff distances to determine intent
- › Creates instant acoustic standoff perimeter
- › Clear, long-range directional communication

FEATURES

- › Remotely control all functions through TCP/IP connection
- › Respond to threats from a safe environment
- › Low power requirements
- › All-weather use
- › Fixed infrastructure
- › Simple to operate – Increased coverage with single operator
- › Increased security coverage
- › Improved operational efficiency
- › Increased response capabilities
- › Safer alternative to non-lethal deterrent measures

MARKETS SERVED

- › Border Security
- › Law Enforcement
- › Defense
- › Commercial Security
- › Critical Infrastructure Security
- › Port & Maritime Security
- › Homeland Security
- › Emergency Warning
- › Mass Communication
- › Wildlife Preservation & Control

INTEGRATED SURVEILLANCE, SECURITY & RESPONSE FOR VESSELS, COASTAL WATERS, BORDERS, PORTS AND CRITICAL INFRASTRUCTURE

Utilizing technology developed and patented* by LRAD Corporation, the LRAD 950RXL's ability to immediately interact with potential threats at a distance provides security personnel the additional time and information necessary to accurately assess situations and scale their response appropriately.

The LRAD 950RXL accepts motion commands from the LRAD Controller software through a point and click interface. Simply click on a target and the LRAD will move to center its acoustic beam onto the target. The LRAD Controller's easy to use interface enables users to visually identify potential threats on the live video feed and direct a powerful warning message or warning tone from the safety of a command and control center.

Featuring an integrated HD camera, high-intensity searchlight (optional) and robust, IP-addressable full pan and tilt drive for precise aiming and tracking, when integrated with radar or motion sensors, the LRAD 950RXL provides automated intruder alerts and becomes a fully functional, unmanned perimeter security and first response system.

Because of its automated capabilities, the LRAD 950RXL reduces manpower and false alarms, resolves uncertain situations, and provides a highly effective, cost efficient security solution.

ACOUSTIC PERFORMANCE

Maximum Peak Output	156dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	151db SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° @ 1kHz/-3dB
Communication Ranges	Maximum range up to 3,000 meters in ideal conditions. Operational range up to 1,250 meters over 88dB of background noise. Ranges based on continuous output.

ENVIRONMENTAL PERFORMANCE¹



Hot Operating Temperature	MIL-STD-810G, Method 501.5, Procedure II, Design type Hot, 55°C
Cold Operating Temperature	MIL-STD-810G, Method 502.5, Procedure II, Design type Basic Cold, -33°C
Hot Storage Temperature	MIL-STD-810G, Method 501.5, Procedure I, 70°C
Cold Storage Temperature	MIL-STD-810G, Method 502.5, Procedure I, -40°C
Operating Humidity	MIL-STD 810G, Method 507.5, 30°-60°C, 95% RH
Rain	MIL-STD-810G, Method 506.5, Procedure I, Blowing rain
Salt Fog	MIL-STD-810G, Method 509.5
Shipboard Vibration	MIL-STD-167-1A
Shipboard Shock	MIL-S-901D, Shipboard Shock, Class I, Shock grade B, Type A shock test
IP Protection Class	IP-56, protected against dust, high pressure water jets
SRS Shock	MIL-STD-810G, Method 516.6, Procedure I
Wind Velocity	90 knots (104 mph / 167 kph)

¹TESTED BY NATIONAL TECHNICAL SYSTEMS (NTS) FOLLOWING MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D.

MECHANICAL

Dimensions	36"W x 41"H x 21.5"D (91.44cm x 104.1cm x 54.6cm)
Weight	180 lbs. (81.6 kg)
Construction	Construction Molded low smoke composite, 6061 Aluminum, 316 Stainless hardware
Positioner Velocity	360° non-continuous rotation (±180°), +45° to -95° tilt
Positioner Resolution	0.01 degrees

ELECTRICAL REQUIREMENTS²

Power Consumption	Peak Power consumption 1000 Watts
Power Input	48 VDC (±3%) at 15 Amps maximum
Control Interface	Discrete inputs for power and communications. Stainless steel MIL-DTL-D389992 connectors
Communications Interface	Ethernet Interface with TCP/IP protocol, Proprietary LRAD control command language, Graphical user interface included for Windows XP/ Vista based systems, Software development tools available.

²SPECIFICATION COVERS SERIES OF MINIATURE, HIGH DENSITY, BAYONET, THREADED, OR BREECH COUPLING, CIRCULAR, ENVIRONMENT RESISTANT, ELECTRICAL CONNECTORS USING REMOVABLE CRIMP OR FIXED HERMETIC SOLDER CONTACTS, AND ARE CAPABLE OF OPERATION WITHIN A TEMPERATURE RANGE OF -65°C TO +200°C.

ELECTROMAGNETIC COMPATIBILITY (EMC)³

FCC Part 15 class A radiated emissions, CE



³REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT.

INTEGRATED CAMERA

Lens	30x zoom, f=4.3mm (wide) to 129.0 mm (tele), F1.6 to F4.7
Angle of View (H)	63.7 degree (wide end) to 2.3 degree (tele end)
Minimum Illumination	Color: 0.01 lx (F1.6, AGC on, 1/30s)
Outdoor Enclosure	Watertight, pressurized, nitrogen filled, solar shield

*U.S. Patent No. 9,693,148