

LRAD 1000RX



ORDERING INFORMATION

LRAD-1000RX-AC-GRV-04	LRAD 1000RX remote, long range communications pan and tilt system
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INCLUDED ACCESSORIES

HD Daylight Camera	HD video camera with adjustable bore sight 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 1000RX 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 1000RX is programmable 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).
Maxabeam Kit	12 million candlepower in a lightweight, mounted searchlight, illuminates targets up to 3,500 meters away.
Steel Pedestal	18" galvanized steel mounting pedestal, available in various heights.

DIRECTIONALITY, POWER & RANGE

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

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



LRAD® 1000RX

Remotely Operated, Integrated Communication System

INTEGRATED SURVEILLANCE AND RESPONSE FOR VESSELS, COASTAL, BORDER, PORT & CRITICAL INFRASTRUCTURE SECURITY

The LRAD 1000RX is designed for integrated applications ranging from maritime vessels to coastal, border and port security solutions. The LRAD 1000RX's ability to immediately interact with potential threats provides security personnel additional time to assess situations and escalate their response if necessary.

The LRAD 1000RX 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 a user to visually spot a potential threat on the live video feed, aim the LRAD and deliver a powerful warning message or warning tone from the safety of a secure control room. The ability of the LRAD 1000RX to immediately interact with a potential threat provides security personnel additional time and information to assess a situation and scale their response appropriately.

Featuring an integrated HD camera, high intensity searchlight (optional) and robust, IP-addressable full pan and tilt drive for precise aiming and tracking, the LRAD 1000RX can also be integrated with radar to provide automated intruder alerts. Because of its automated capabilities, the LRAD 1000RX reduces manpower, false alarms and resolves uncertain situations while providing a highly effective, cost efficient remote first responder security solution.

ACOUSTIC PERFORMANCE

Maximum Peak Output	159dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	153db 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, 60°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, Procedure II – Aggravated Cycle
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
Random Vibration	MIL-STD-810G, Method 514.6, Wheeled Vehicles
SRS Shock	MIL-STD-810G, Method 516.6, Procedure I, (Functional shock)

¹TESTED BY U.S. NAVY FOLLOWING MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D.

MECHANICAL

Dimensions	56.1" W x 64.7" H x 21.5" D (142.5cm x 164.3cm x 54.6cm)
Weight	340 lbs. (154 kg)
Construction	Molded low smoke composite, 6061 Aluminum, 316 Stainless hardware
Positioner Velocity	420° non-continuous rotation (± 210°), +95° to -95° tilt
Positioner Resolution	0.01 degrees

ELECTRICAL REQUIREMENTS²



Power Consumption	Peak power consumption 1350 Watts
Power Input	90-260VAC 50/60 Hz
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



LRAD products are available for purchase through multiple channels including: GSA Advantage, Federal and State grants, FEMA RKB Standardized Equipment List (SEL), and others. More information: info@LRAD.com.

LRAD.com

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