



PRODUCT SHEET

SURVEILLANCE COMPONENTS



➡ CAMERA

- Employs a 26x optical zoom lens combined with a digital zoom function; allows you to zoom 312x.
- The CCD features 600,000 (NTSC) or 740,000 (PAL) effective picture elements and an image stabilizer for stable shooting with high-resolution.



➡ SEARCHLIGHT

Watertight Enclosure
7.5 million Candlepower
Constructed of powder coated aluminum for protection against the elements.



THE LRAD-RX ADVANTAGE:

HIGH DIRECTIONALITY

- REDUCES THE RISK OF EXPOSING NEARBY PERSONNEL TO EXCESSIVE AUDIO LEVELS

HIGH DECIBEL OUTPUT

- CLEAR COMMUNICATION AND UNMISTAKABLE WARNING AT EXTENDED RANGES

REMOTE CAPABILITY

- TCP/IP ADDRESSABLE
- RESPOND TO A THREAT FROM A SAFE ENVIRONMENT

EASE OF INSTALLATION

- LOW POWER REQUIREMENTS
- ALL WEATHER CAPABILITY
- LIGHTWEIGHT

COST EFFICIENT

- INCREASED SECURITY COVERAGE
- REDUCED MANPOWER
- INCREASED OPERATIONAL EFFICIENCY
- INCREASED RESPONSE CAPABILITIES

REMOTE LONG RANGE ACOUSTIC DEVICE

LRAD-RX uses its directionality and focused acoustic output to clearly transmit critical information, instructions and warnings well beyond 1000 meters. Through the use of powerful voice commands and deterrent tones, large safety zones can be created while determining the intent and influencing the behavior of an intruder.

LRAD-RX can be operated remotely across an IP network enabling system operators to respond to potential threats from a safe environment while creating a complete unmanned perimeter security solution. LRAD-RX accepts intruder position information from other IP-enabled sensor systems to automatically find and track potential threats. LRAD-RX's large safety zone gives security personnel additional time and valuable information if an elevated intruder response becomes necessary.

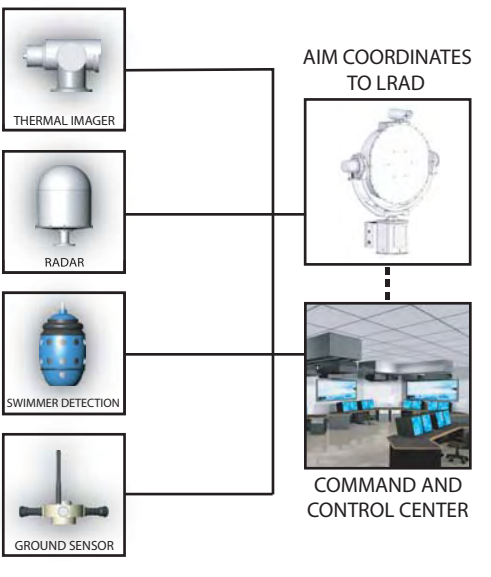
LRAD-RX features an emitter head, integrated camera, high-intensity searchlight (optional) and ATC's own robust full pan and tilt capability for precise aiming and tracking. Audio output from LRAD-RX is highly directional so nearby personnel and system operators are not exposed to excessive audio levels, while still providing exceptional voice intelligibility and tonal clarity over long distances.



Long Range Acoustic Device™

SYSTEMS INTEGRATION

LRAD-RX can be integrated into a sensor network to locate and track a potential threat. This enables the command and control center to respond to the threat from a safe environment in a remote location. The coordinates obtained from the sensors can be transmitted to the LRAD-RX for precise aiming. This gives security personnel additional time and valuable information if an elevated intruder response becomes necessary. A full API is available for systems integrators.



SURVEILLANCE SOFTWARE

The Graphic User Interface (GUI) provides a visual control interface for the user. This interface consists of a real-time video display and a graphical control interface for the LRAD-RX. The real-time video display shows the live video feed from the LRAD-RX, and is used to monitor and acquire targets for communication.



UNIT WEIGHT	320 lbs
MECHANICAL Outside Dimensions	53" W x 20" D x 64" H
UNIT COLORS	<input type="checkbox"/> White <input checked="" type="checkbox"/> Gray
POSITIONER VELOCITY	60 degrees per second maximum Adjustable speed for fine positioning
RANGE OF MOTION	430° non-continuous rotation (+/- 215°) +90° to -90° tilt
CONTROL INTERFACE	Discrete inputs for power and communications Stainless steel MIL-D38999 connectors
COMMUNICATION INTERFACE	Network ready - IP addressable T10/100 based Ethernet

ENVIRONMENTAL Hot Operating Temperature	MIL-STD-810F, Method 501.4, Procedure II, Design type Hot
Cold Operating Temperature	MIL-STD-810F, Method 502.4, Design type Basic Cold
Hot Storage Temperature	MIL-STD-810F, Method 501.4, Procedure I
Cold Storage Temperature	MIL-STD-810F, Method 501.4, Procedure I, Basic cold
Operating Humidity	MIL-STD-810F, Method 507.4
Rain	MIL-STD-810F, Method 506.4, Procedure II
Salt Fog	MIL-STD-810F, Method 509.4
Shipboard Vibration	MIL-STD-167-1A
Shipboard Shock	MIL-S-910D

TECHNICAL PERFORMANCE Maximum SPL	152 dB instantaneous tone @ 1 meter
Nominal Beam Width	+/- 15° at 1 kHz
Power Input	48 VDC input power
Power Requirements	Peak Power Consumption 1100 Watts

INTEGRATED CAMERA Lens	26x Zoom F=3.5 mm (WIDE) to 91 mm (TELE), F1.6 to F3.8
Zoom movement speed	Optical WIDE/Optical TELE 4.0 sec
Angle of View (H)	42.0 degree (WIDE end) to 1.6 degree (TELE end)
Min. Illumination	2.0 lux/1/60 sec (NTSC), 0.14 lux/1/4 sec (NTSC)
ICR-ON Mode	0.7 lux/1/60 sec (NTSC), 0.05 lux/1/4 sec (NTSC)
Operating Temperature	-30 to 50° C (32 to 122°F)
Humidity	20 to 80%
Outdoor Enclosure	Watertight, Solar Shield, Nitrogen Filled

CONSTRUCTION	Welded Stainless Steel Structure All Hardware is 316 Stainless Powdercoat Finish
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