



## ORDERING INFORMATION

CATALOG NUMBER	PRODUCT DESCRIPTION
950NXT-GRY	Gray LRAD 950NXT communication system with XL Drivers, HD Camera, and pan & tilt capabilities.
950NXT-SWH	Signal white LRAD 950NXT communication system with XL Drivers, HD Camera, and pan & tilt capabilities.

## INCLUDED ACCESSORIES

High Definition Camera	HD video camera with adjustable boresight mount and 30x optical zoom lens.
LRAD Connection and Cable Kit	Configuration and testing kit. Cables for permanent installation not included.
LRAD Controller Software	Security software with TCP/IP network control. Easily integrated with other network enabled sensors. Allows for command and control of all LRAD 950NXT functions, including device movement, audio playback, and camera control. Also provides detailed diagnostics.

## OPTIONAL ACCESSORIES

Commissioning	Confirms proper installation and operational functionality. <b>Required for warranty.</b>
Maxabeam (950NXT-MAXA-GRY/SWH)	Gray or signal white mounted searchlight. 12 million candlepower beam capable of illuminating targets up to 3,500 meters away (1 lux on target).
Power Supply (48V-1700W-PS-GRY/SWH)	Gray or signal white 48 volt, 1700 watt AC to DC power supply. Ruggedized and rated for outdoor installation.
Laser Dazzler Connection Kit (119662-01/-02)	Connection and installation material compatible with Wavelength Solutions' laser dazzler. This dazzler is a high power, non-lethal, green laser module used to disorient targets with directed light radiation.
Laser Range Finder (119811-00)	Lidar-powered sensor used to detect targets and determine their distance and location at ranges up to 180 meters.
FLIR Infrared Camera (119679-01/-02)	Video camera that utilizes infrared technology to provide high-contrast thermal imagery.
Software Application Programming Interface (API) (118681-00)	Software that 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 can be programmed to respond to alarms, radars, and other sensor notifications.
Dual-axis Servo/Gyro Stabilizer	Mechanism that compensates for instability at the installation site to ensure the LRAD remains on target and in the proper position. Ideal for shipboard installations.
Automatic Object Tracking and Engagement	Program that automatically identifies, tracks, and engages any new or unknown person or object that enters the LRAD's surveillance perimeter.

## DIRECTIONALITY, POWER, & RANGE

- › Project powerful, intelligible voice messages and alert tones up to 3,000 meters in ideal conditions
- › Create instant acoustic perimeter
- › Safely communicate beyond standoff distances to determine intent
- › Pan & tilt capabilities allow for directional communication

## FEATURES

- › TCP/IP connection for full remote control
- › Low power requirements
- › All-weather use
- › Fixed infrastructure
- › Remote operation, diagnostic testing, and troubleshooting
- › Easy to service
- › Simple and efficient operation
- › Large coverage area
- › Multiple response capabilities
- › Safer alternative to other deterrent methods

## 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 950NXT

Remotely Operated, Integrated Communication System

## INTEGRATED SURVEILLANCE, SECURITY, & RESPONSE

Utilizing technology developed and patented\* by Genasys Inc., the LRAD 950NXT's ability to identify and interact with targets from a distance provides security personnel the additional time and information necessary to accurately assess situations and appropriately scale responses.

The LRAD 950NXT is operated using LRAD Controller software. This software's comprehensive functionality and easy-to-use controls enable personnel to identify targets on the live video feed, manipulate the 950NXT's pan & tilt position, and broadcast powerful warning messages and tones from the safety of a command and control center.

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

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

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

## ACOUSTIC PERFORMANCE

Maximum Peak Output	156 dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	151 db 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.

## MECHANICAL

Dimensions	41 in H x 36 in W x 17 in D (104.1 cm H x 91.4 cm W x 43.2 cm D)
Weight	208 lb (94.3 kg)
Construction	Construction Molded low smoke composite, 6061 Aluminum, 316 Stainless hardware
Positioner Range	360° non-continuous rotation (1/8° 180°), +45° to -95° tilt
Positioner Resolution	0.1 degrees

## ELECTRICAL REQUIREMENTS<sup>1</sup>

Power Input	48 VDC (± 3%) at 35 Amps maximum	
Power Consumption	<b>Idle:</b> 25 Watts (no accessories)	200 Watts (camera and Maxabeam ON)
	<b>Voice:</b> 450 Watts (no accessories)	580 Watts (camera and Maxabeam ON)
	<b>Peak:</b> 840 Watts (no accessories)	1000 Watts (camera and Maxabeam ON)
	<b>Max:</b> 1700 Watts (all possible accessories ON)	
Control Interface	Inputs for power and communications. Stainless steel MIL-DTL-D389992 connectors	
Communications Interface	Ethernet interface with TCP/IP protocol, proprietary LRAD control command language, and graphical user interface included for Windows-based systems. Software development tools available.	

<sup>1</sup>Specification 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.

## ENVIRONMENTAL PERFORMANCE

Cold/Hot Operating Temperature <sup>2</sup>	MIL-STD-810G, Method 501.5 & 502.5, Procedure II, -33° to 55° C
Cold/Hot Storage Temperature <sup>2</sup>	MIL-STD-810G, Method 501.5 & 502.5, Procedure I, -40 to 70° C
Operating Humidity <sup>2</sup>	MIL-STD 810G, Method 507.5, 30° to 60° C, 95% RH
Rain <sup>2</sup>	MIL-STD-810G, Method 506.5, Procedure I, Blowing rain
Salt Fog <sup>2</sup>	MIL-STD-810G, Method 509.5
Shipboard Vibration <sup>2</sup>	MIL-STD-167-1A
Shipboard Shock <sup>2</sup>	MIL-S-901D, Shipboard Shock, Class I, Shock grade B, Type A shock test
IP Protection Class <sup>2</sup>	IP-56, protected against dust, high pressure water jets
SRS Shock <sup>2</sup>	MIL-STD-810G, Method 516.6, Procedure I
Wind Velocity <sup>2</sup>	90 knots (104 mph / 167 kph)
Electromagnetic Interference (EMI)	MIL-STD-461G

<sup>2</sup>Designed to meet the listed performance specifications. Laboratory testing is pending.

## 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, with solar shield