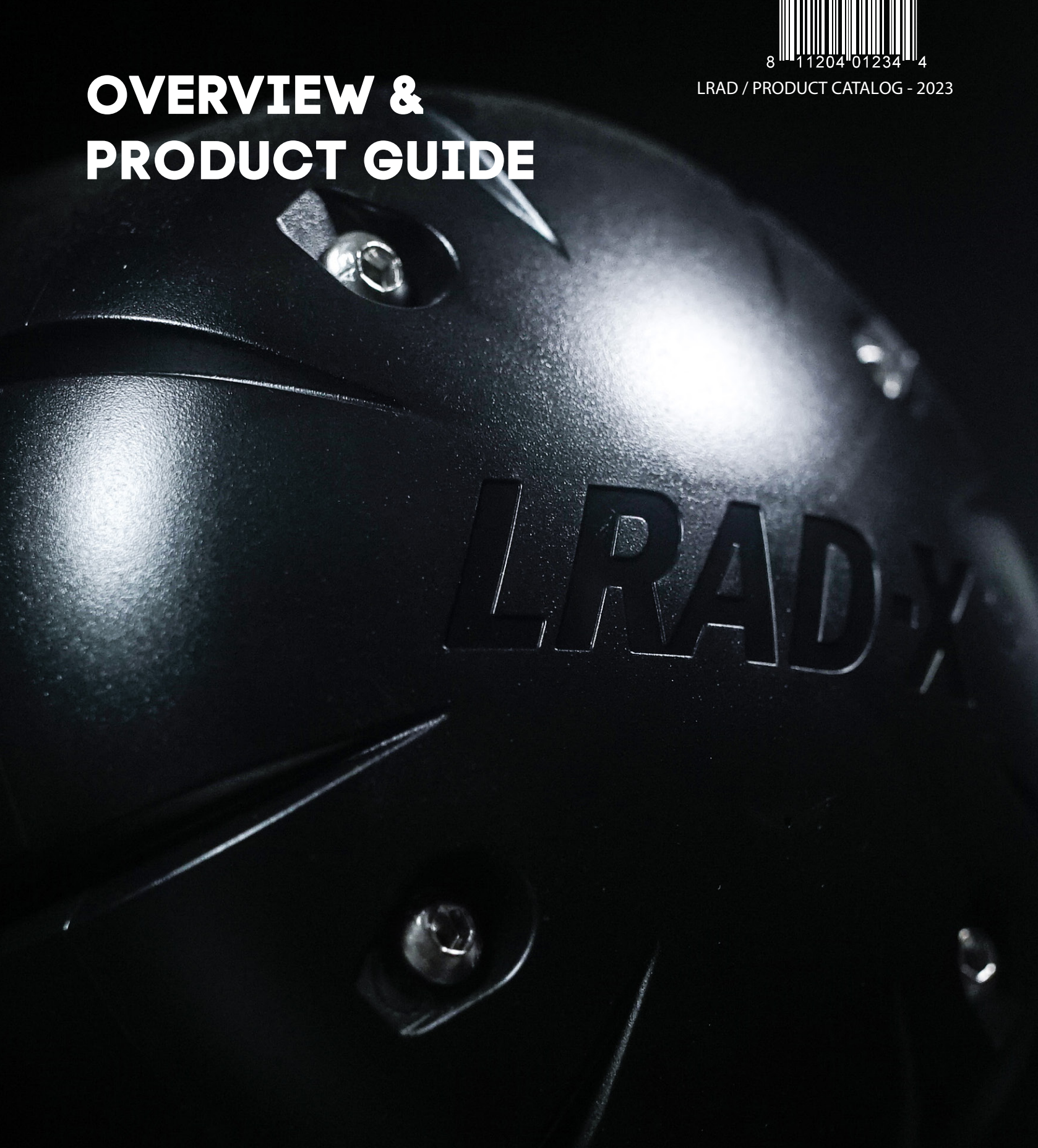




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LRAD / PRODUCT CATALOG - 2023

# OVERVIEW & PRODUCT GUIDE



 **genasys LRAD**

[WWW.GENASYS.COM](http://WWW.GENASYS.COM)

# THE LRAD ADVANTAGE

**How LRAD Works:**

LRAD systems focus sound in a 30° beam to broadcast live or pre-recorded voice messages and attention-commanding ALERT tones with exceptional clarity from close range out to 5,500 meters

- **Focused, clear sound**
- **Long-range tone & voice broadcasts**
- **Industry-leading vocal clarity**

» Conventional loudspeakers disperse sound in all directions

» LRAD's proprietary audio technology focuses sound in front and significantly reduces audio levels behind the device and in surrounding areas

» Bullhorns and vehicle PA systems have limited broadcast range and poor voice intelligibility

## LRAD adds new dimensions to voice broadcast and mass notification systems

- Controlled broadcast dispersion
- Audible broadcasts feature industry-leading clarity and intelligibility
- 30° audible transmission ranges out to 5,500 meters
- 60° - 360° audible mass notification coverage over areas out to 14 km<sup>2</sup>

## LRAD systems broadcast audible voice messages and alert tones with exceptional clarity over great distances

- Warn, Notify & Instruct
- Determine Intent
- Resolve Uncertain Situations
- Establish Large Safety Zones
- Minimize the Use of Force
- Save Lives





## Advanced Technology

With its full line of portable, fixed, and vehicle-mounted systems, Genasys provides advanced technology solutions that are rugged, reliable, and easy to operate.

## Superior Intelligibility

Genasys' advanced XL™ Driver and Waveguide technology ensures voice and alert tones cut through significant levels of background noise

## Clear & Unambiguous Communication

By maintaining a smooth frequency response, Genasys eliminates the audio variability inherent in other voice broadcast systems by preventing fading and producing clear, unambiguous communication across all broadcast frequencies.

LRAD systems are safely optimized to the primary human hearing range of 1 – 5 kHz to generate voice messages with exceptional clarity from close range out to 5,500 meters.

**LRAD Systems are in Service in a Range of Diverse Applications in more than 100 Countries and 500 U.S. Cities**

# Industries Served



## DEFENSE

Today's military forces are required to support the full spectrum of missions from combat and counterinsurgency to disaster response and humanitarian assistance. Regardless of the assigned mission, clear communication and scalable escalation of force (EOF) are critical to success. LRAD systems are deployed by all U.S. military branches and by international defense forces throughout the world.

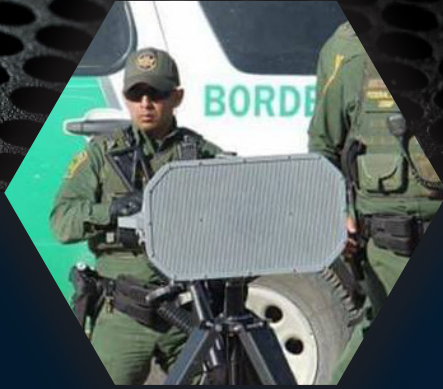
## LAW ENFORCEMENT

LRAD is fundamentally changing the way law enforcement agencies conduct everyday duties and elevated risk operations. LRAD systems ensure law enforcement's warnings, commands and notifications are clearly heard and understood in every operational situation. Rugged, reliable, and easy to operate, LRAD resolves uncertain situations, safeguards the public and protects police officers.

## FIRE & RESCUE

When Fire & Rescue teams need to communicate critical information to individuals or groups in harm's way, LRAD systems broadcast real-time messages with exceptional vocal clarity from close range to several hundred meters. LRAD alert tones and voice broadcasts can be clearly heard and understood inside buildings and vehicles.





## HOMELAND & BORDER SECURITY

Security measures that enhance public safety are top priorities in today's escalated threat environment. In any operational scenario, the products and systems that homeland security agencies use must be versatile, rugged, easy to operate and cost effective. LRAD turns passive surveillance systems into first responders by broadcasting critical information, instructions and warnings from close range out to 5,500 meters.



## CRITICAL INFRASTRUCTURE

Throughout the world, LRAD systems are enhancing security at power plants, dams, embassies, government facilities, water treatment plants and other critical infrastructure. Unlike traditional surveillance systems, LRAD systems provide a vital first response capability missing from observe-only integrated security installations. LRAD turns passive surveillance systems into first responders by broadcasting critical information, instructions and warning.



## MARITIME SAFETY

In response to the deadly October 2000 attack on the USS Cole, Genasys created the acoustic hailing device market by developing and launching its proprietary LRAD technology and systems. LRAD extends a ship's security perimeter and provides the crew with a critical self-defense capability.

# LRAD 100X

*Lightweight, Portable, Long Range Communication*



## LRAD 100X

The LRAD 100X is 20 - 30 decibels louder than bullhorns and vehicle P.A. systems and up to 6X louder than systems of comparable size and weight. Live or recorded audible voice broadcasts are clearly heard and understood over background noise, and inside vehicles and buildings.

### SPECS

Max Range	2,200ft / 600m
Peak DB	140
Continuous DB	137
Weight	15lbs / 6.8kg

### ORDERING INFO

100X-BLK	LRAD 100X battery powered portable long range communication system

# LRAD 450XL

*The Loudest, Longest Range Midsize Acoustic Hailing Device*



The LRAD 100X & 450XL are Defense & Law Enforcement's Long Range Communication Systems of Choice

## LRAD 450XL

Low profile, lightweight and designed for temporary or fixed mounting on tripods, small vessels, vehicles, helicopters and remote weapon stations, the LRAD 450XL uses LRAD's patented XL driver technology to generate the audio output of devices almost twice its size and weight.

### SPECS

Max Range	5,580ft / 1,700m
Peak DB	150
Continuous DB	145
Weight	37lbs / 16.6kg

### ORDERING INFO

450XL-GRY  
450XL-TAN  
450XL-BLK  
450XL-GRN

LRAD 450XL manually operated, long range communication system with dash mounted MP3 control module



# LRAD SYSTEMS



## LRAD 100X MAG SYSTEM

With wireless control out to 300 meters and a high strength, easy on/off magnetic mount system, the LRAD 100X MAG-HS Kit is designed for evolving tactical situations.

### SPECS

Max Range	2,200ft / 600m
Peak DB	140
Continuous DB	137
Weight	15lbs / 6.8kg

### ORDERING INFO

100X-BLK-MAG	LRAD 100X base system with additional magnetic base and yoke to secure the LRAD to metallic surfaces, like vehicle roofs
100X-BLK-MAG-SYS	LRAD 100X base system with additional magnetic base, yoke, and wireless kit for remote operation out to 200 m



## LRAD 450XL MMT

Low profile and designed for temporary or fixed mounting on most helicopters, the LRAD 450XL-MMT features an adjustable mount with an integrated rechargeable power pack for full positioning and operation of the advanced air-to-ground communication system.

### SPECS

Max Range	5,580ft / 1,700m
Peak DB	150
Continuous DB	145
Weight	168lbs / 76kg

### ORDERING INFO

450XL-MMT-G-HH60	LRAD 450XL with HH-60 helicopter mount
450XL-MMT-G-UH1	LRAD 450XL with UH-1 helicopter mount





## LRAD 500X-RE

Easily transported, the LRAD 500X-RE provides highly effective communication and scalable EOF capabilities for public safety, defense, maritime and homeland security applications.

### SPECS

Max Range	6,562ft / 2,000m
Peak DB	154
Continuous DB	149
Weight	44lbs / 29kg

### ORDERING INFO

500X-RE-BLK	LRAD-500X-RE remote electronics, long range communication system with dash mounted MP3 control module (available in either black, green, gray, or tan).
500X-RE-GRN	
500X-RE-GRY	
500X-RE-TAN	



## LRAD 500X-MMT

Features a rechargeable power pack for operation inside most helicopters. The 12-jaw cargo tie down accommodates a variety of helicopter cabin floors.

### SPECS

Weight	44lbs / 29kg
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### ORDERING INFO

500X-MMT-GRY-HH60	LRAD 500X with HH-60 helicopter mount
500X-MMT-GRY-UH-1	LRAD 500X with UH-1 helicopter mount



## 60XL Mobile Range System

The 60XL Mobile Range System incorporates highly intelligible, focused sound in a small, portable form factor. The horn's 60° audio dispersion pattern safely broadcasts instructions and warnings over significant levels of background noise. The self-contained amplifier pack is easily transported and set up to provide several hours of continuous mass notification.

### SPECS

Max Range	2,953ft / 900m
Peak DB	142
Continuous DB	139
Weight	24.6lbs / 11.16kg

### ORDERING INFO

RANGE-1	Single Horn: 60XL Mobile Range System
RANGE-2	Dual Horn: 60XL Mobile Range System

# LRAD Systems

*Communicate even further with our longest range systems*



## LRAD 950NXT

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.

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.

### SPECS

Max Range	9,843ft / 3,000m
Peak DB	155
Continuous DB	151
Weight	208lbs / 94.3kg

### ORDERING INFO

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.



## LRAD 1000Xi

Designed for deployment on larger vehicles and vessels, the LRAD 1000Xi is a powerful hailer for defense, homeland, maritime and critical infrastructure security applications.

### SPECS

Max Range	9,843ft / 3,000m
Peak DB	159
Continuous DB	153
Weight	87lbs / 39.4kg

### ORDERING INFO

1000Xi-GRY	LRAD 1000Xi with integrated amplifier, control unit, cables & microphone
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## LRAD 1950XL

The LRAD 1950XL broadcasts audible hails, warnings and voice communications far beyond normal standoff distances, and safely initiates and scales EOF.

### SPECS

Max Range	16,404ft / 5,000m
Peak DB	160
Continuous DB	155
Weight	90lbs / 41kg

### ORDERING INFO

1950XL-GRY	LRAD 1950XL extended range communication system
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## LRAD 2000X

The superior voice intelligibility and clarity of the LRAD 2000X generates directional audio broadcasts far beyond normal standoff distances.

### SPECS

Max Range	18,045ft / 5,500m
Peak DB	168
Continuous DB	160
Weight	81lbs / 37kg

### ORDERING INFO

2000X-GRY	LRAD 2000X long range communications system with heavy duty tripod & remote amplifier
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## LRAD Mobile Sound Shield

The Mobile Sound Shield broadcasts powerful warning tones and highly intelligible voice commands in a full 360° radius up to 100 meters.

### SPECS

Max Range	328ft / 100m
Peak DB	121
Continuous DB	105
Weight (Emitter)	13.6lbs / 6.2kg

### ORDERING INFO

FKIT-05	Mobile sound shield kit with emitter, amp pack, dash-mounted control unit, and cables
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# LRAD ACCESSORIES

## Enhancements & Upgrades



### VAC MOUNT

The VAC mount is equipped with mounting fasteners to secure the mount in position. Each mounting fastener has a capacity of 40 lbs of upward force to ensure the VAC Mount will remain secure even when positioned upside down or on a moving vehicle.

#### ORDERING INFO

100X-MNT-VAC	LRAD 100X VAC Mount
450XL-MNT-VAC	LRAD 450XL/300X VAC Mount
FKIT-05-1	Mobile Sound Shield VAC Mount*



### LRAD TRIPOD

Military grade tripod and hard storage case.

#### ORDERING INFO

TRIPOD-SYS	LRAD Tripod
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### LRAD WIRELESS SYSTEM

Wireless control for LRAD 100X, LRAD 450XL, and all manually operated systems. Runs up to 16 LRAD systems simultaneously.

#### ORDERING INFO

WIRELESS-CU-CHI4	Wireless System - US & Canada
WIRELESS-CU-RES	Wireless System - International (Radio not included)



### HD ACTION CAMERA

The HD Action Camera provides video and audio recording capability for all LRAD systems.

#### ORDERING INFO

100X-GOPRO	LRAD 100X HD Action Camera
450XL-GOPRO	LRAD 450XL HD Action Camera



### LRAD POWER PACK

The Power Pack allows users to power units without being tethered to an outlet, resulting in greater deployment flexibility.

#### ORDERING INFO

24V-PACK	Power Pack with Charger, 24 VDC, 21 AH, Type B Power Plug (USA, Canada, Japan, etc.)
24V-PACK-EU01	Power Pack with Charger, 24 VDC, 21 AH, Type E/F Power Plug (France, Belgium, Poland, etc.)
24V-PACK-UK	Power Pack with Charger, 24 VDC, 21 AH, Type G Power Plug (UK, Singapore, Hong Kong, etc.)



### 28V, 500W POWER SUPPLY

The 24-volt DC Power Pack provides up to 5 hours of continuous use for LRAD 450XL and 500X systems.

#### ORDERING INFO







28V-PS	Kit, Power Supply, 28 VDC Out, 500 W, SS, Type B Power Plug (USA, Canada, Japan, etc.)
28V-PS-EU01	Kit, Power Supply, 28 VDC Out, 500 W, SS, Type E/F Power Plug (France, Belgium, Poland, etc.)
28V-PS-UK01	Kit, Power Supply, 28 VDC Out, 500 W, SS, Type G Power Plug (UK, Singapore, Hong Kong, etc.)



# PRODUCT COMPARISON





Communication ranges, audio output, and power requirements.

	 LRAD 100X	 LRAD 100X MAG System	 LRAD 450XL	 LRAD 450XL MMT	 LRAD 500X-RE	 LRAD 500X-RE MMT
Max dB	140	140	150	150	154	154
Continuous dB	137	137	145	145	149	149
Max Range	600m	600m	1700m	1700m	2000m	2000m
Power	10.8 - 16.8 VDC Rechargeable Battery	10.8 - 16.8 VDC Rechargeable Battery	12 - 28 VDC	12 - 28 VDC	12 - 28 VDC 100 - 220 VAC	12 - 28 VDC

	 LRAD 950NXT	 LRAD 1000Xi	 LRAD 1950XL	 LRAD 2000X	 DS 60XL Mobile Range System	 Mobile SoundShield
Max dB	155	159	160	168	142	121
Continuous dB	151	153	155	160	139	105
Max Range	3000m	4000m	5000m	5500m	900m	100m
Power	48 VDC (+/-3%) at 35 amps max	90-260 VAC 50/60 Hz	90-260 VAC 50/60 Hz	90-260 VAC 50/60 Hz	2x 160 W	2x (30v/ 15 V 288 Wh)



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