



Bloodhound™¹

HIGH FREQUENCY TRANSMITTER GEOLOCATION AND TRACKING SYSTEM

Bloodhound is a portable, low-profile, high frequency geolocation system that operates from 3 MHz to 20 MHz and is suitable for tactical operations. It is unique in that only one system is required to generate precise geolocation estimates and is available in Expeditionary (pictured), Fixed, and Fly-away configurations.

Bloodhound is comprised of three receivers, each of which can operate with four sub-bands, and a picture frame antenna array. Antennas are 7.9 inches in height and are easily concealed to blend into the surrounding terrain. Each sub-band locates multiple transmitters with geolocation estimates developed in five minutes.

Bloodhound is low SWAP (size, weight, and power), easily transportable, and is deployed in fewer than four hours by a four-man team (as defined by MIL STD 1472F), and torn down in fewer than 45 minutes. It does not require a local operator, and can be deployed for extended operations. For mobile applications, antennas are emplaced and concealed, while receivers and processors are housed in a temperature controlled space in a tactical vehicle nearby. For stationary applications, receivers are co-located near the antennas or housed in a temperature controlled space with the processors.

1. Bloodhound is a trademark of Leidos, Inc.

KEY BENEFITS

- ▶ Highly accurate
- ▶ Low-profile footprint provides for concealed operations
- ▶ Automated geolocation estimates in 5min
- ▶ Quickly and easily deployable by a four-man team
- ▶ Fits into a S-788 HMMWV shelter for transit and operation
- ▶ Geolocation accuracy available upon request



Bloodhound is being developed through a partnership between Leidos and STR.



SWAP*

	SIZE	WEIGHT	POWER
Antenna (8)	16.1in x 14.2in x 7.9in each	42 lbs. each	N/A
Receiver cabinet	27.0in x 23.2in x 33.1in	172 lbs.	4.2 amp
Receiver cabinet w/ air conditioning	27.0in x 23.2in x 49.9in	290 lbs.	13.7 amps
Processor cabinet	27.0in x 23.2in x 33.1in	226 lbs.	10.8 amps
Antenna Cabling	100m x 8	160 lbs.	N/A

SPECIFICATIONS*

Frequency Range	3 to 20Mhz
Sub-bands	4
Sub-band Bandwidth	37.5kHz or 100kHz
Accuracy	Available upon request
Antenna Type	Picture Frame
Environmental	MIL-STD 810G compliant for temperature (Method 501.5 and 502.5), shock (Method 516.6), vibration (Method 514.6), sand and dust (Method 510.5), and humidity (Method 507.5)
Operating Temperature	-15 to 50 deg C
Storage/Transport Temperature	-25 to 70 deg C
Humidity	95%

* SWAP AND SPECIFICATIONS BEING FINALIZED AND SUBJECT TO CHANGE

WHY PARTNER WITH LEIDOS?

If you have a challenge where innovative or disruptive technology could make a difference to your mission, Leidos is your partner. The Leidos Innovations Center develops ground breaking solutions leveraging a wide range of technologies including advanced computing, AI/ML, signal processing, and sensors (including radio frequency; optical; and chemical, biological, radiological, and nuclear). The Leidos Innovations Center conducts projects on a variety of time scales, from quick reaction capabilities to long term technology development, helping customers solve some of the world's toughest challenges in the defense, intelligence, civil, and health markets.

NEXT STEP

Through our culture of innovation and history of performance, we maintain deep customer trust built on integrity and develop and provide customer-centered capabilities and solutions at speed and scale for execution efficiency. Contact us today to discover how we can help you solve your challenges today and in the future.

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