

GeoStorm

Tactical Geo-location Receiver



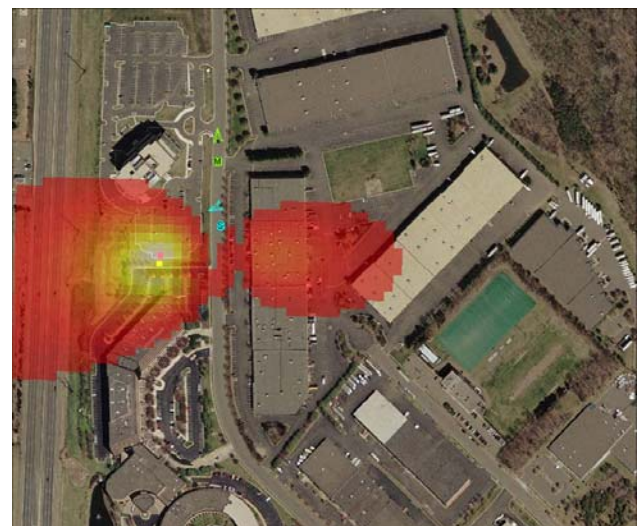
"If you can hear it, we'll find it."

System Description

GeoStorm was specifically designed for "close quarters" geo-location. This system is generally used when the emitter is known to be within a small area of one to two kilometers, although it can be used in larger areas. The GeoStorm system can be used as a stand-alone unit or it can work in conjunction with another GeoStorm receiver to provide better accuracy and improved results.

When operating as a stand-alone unit, GeoStorm uses an amplitude based algorithm to quickly determine the location of a transmitting RF emitter. When used in concert with a second GeoStorm unit, Doppler and amplitude algorithms are used to provide the user with two solutions for added confidence and accuracy. Regardless of the mode of operation, there is always at least one Master unit and it must be moving in order for the system to function properly. When a second unit (Slave) is used, it may be moving or can remain stationary.

The general procedure for locating an emitter with GeoStorm is to setup the receiver by connecting power, antennas and computer. After the high stability reference is stabilized, the user will begin driving around the area of interest, while listening to the desired frequency channel. When a signal of interest comes on the air, the user clicks the Start Capture button. When the signal goes off the air, the user clicks the Stop Capture button. The computer displays a map with real-time updated platform position and geolocation estimates. As the map is updating, the user will drive toward the current estimate, collecting signal data as it comes on the air. The more data that comes in, the more focused and accurate the results will get.



GeoStorm General Specifications

Dimensions: 5.6" x 8.6" x 2.8"
 Weight: 4.5 lbs.
 Power: 12 VDC, 1.5A max
 Audio Output: 300mA into 8 ohms

Connectors:

RF Antenna: BNC, 50 ohms
 W-Link Antenna: TNC (M)
 Power Connector: 2-Pin Circular, 12 VDC
 PC Connector: 7-Pin Circular, RS232 Serial
 Audio Connector: 4-Pin Circular, Stereo Audio
 GPS Antenna: TNC (F) (power out 5 VDC, 20mA)



WLINK Antenna



GPS Antenna



Vehicle Power Cable



USB to Serial
Adapter



Data Cable



Carrying Case



RF Antenna



Headphones