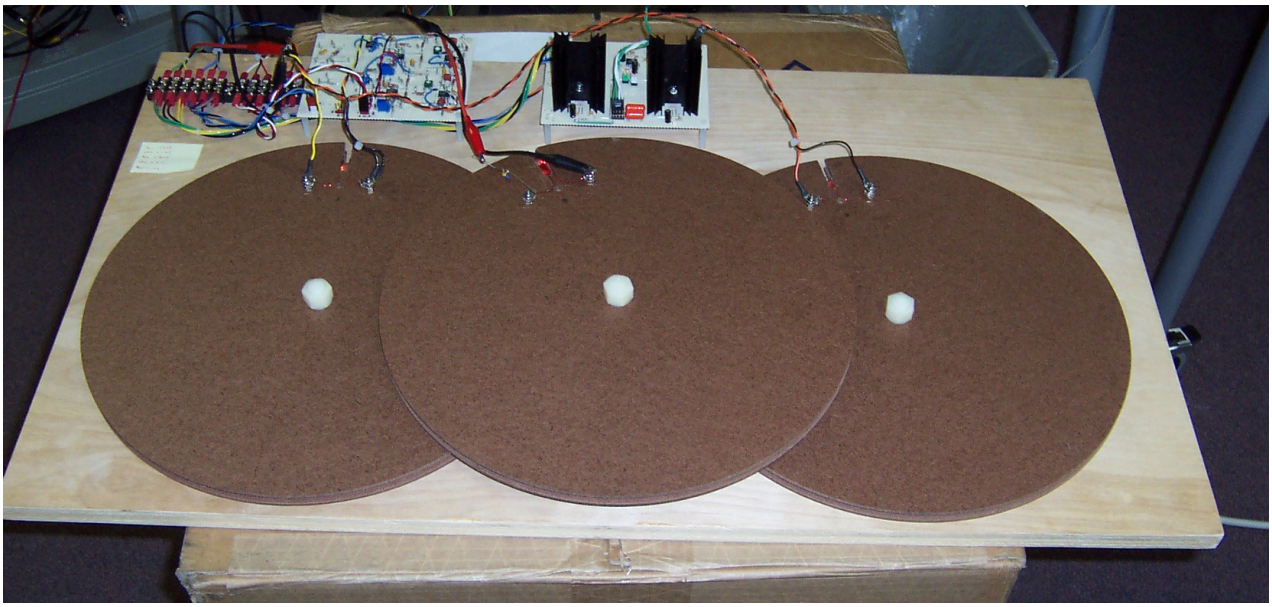
CENTER FOR REMOTE SENSING, INC.

Highly Sensitive EM Sensor

(EMS-01-08)



EMS-01-08 is a highly sensitive EM sensor used for detection and characterization of deeply buried metallic or magnetic materials. It is characterized by high speed operation (can be driven at speeds up to 40 mph), and can detect targets (152 mm shells) at distances or depths up to about 6 to 10 feet.

It consists of a collocated Tx and Rx system and the user control and display are provided through a real time PC based unit. A GPS unit can be integrated (optional) to log the position coordinates of various targets while driving the system over surveying regions. It provides frequency domain operation and inphase, quadrature, magnitude, and phase data are provided.

Originally developed for U.S. Army for IED detection, these units are now available as off-the shelf commercial products and provide the most affordable EM sensor with such sensitivity. The sensitivity and several other parameters are easily controlled by a user-friendly GUI and provide plug-n-play operation with minimum training.

Although the primary application is detection of buried objects, it could also be used for various related applications such as ground conductivity meter, sub-surface geophysical surveying, underground tunnels and structures, and behind the wall human detection.

It offers detection sensitivity of ppm level and can provide 30 watts of Tx power. It can operate both from car batteries (24V) or AC lines.

Typical sensor-head size is 3' x 4', which provides the sensitivity provided here. Various other sensor-heads can be provided to adapt to user requirements.

Center for Remote Sensing, Inc.
Advancing Technology

3702 Pender Drive, Suite 170
Fairfax, VA 22030
www.cfrsi.com
Phone: 703.385.7717
Fax: 703.385.7719
E-mail: gps@cfrsi.com