



UNITED STATES DEPARTMENT OF DEFENSE

# HUMANITARIAN DEMINING R&D PROGRAM

## Minehound

**New commercially-available, dual sensor, handheld detector**

Equipment described herein is subject to US export regulations and may require a license to export.

### STATUS

The Minehound is undergoing an Operational Field Evaluation (OFE) in Afghanistan with The HALO Trust.

Minehound is a dual sensor handheld detector that uses ground penetrating radar (GPR) and metal detection technology to locate landmines and unexploded ordnance (UXO). The GPR can be operated independently which gives Minehound the ability to detect deeper buried, low metallic threats.

The GPR audio tone provides information on the size and depth of the object it detects. The adjustable GPR start point removes noise from the soil surface, and the adjustable stop point limits the maximum search depth to filter noise from bedrock or from the water table. Multiple frequencies allow it to be operated in close proximity to other detectors and near power lines without interference. The metal detector also compensates for water and mineralized soil without reducing sensitivity. The Minehound has been undergoing



technical evaluation by the HD R&D Program since April 2011. The system has been deployed to Afghanistan, Angola, Cambodia and Iraq. It is currently undergoing an operational field evaluation in Afghanistan with The HALO Trust.

Cutting-Edge Solutions  
**DEMINING TECH**

**MINE DETECTION**



## FEATURES

- Dual sensor, handheld mine detector combines metal detector and GPR sensors to detect low metal content mines
- Independent GPR operation provides the ability to detect deep buried, low metal content mines and UXO
- GPR audio tone indicates size and depth of target
- Twenty metal detection frequencies provide ability to operate near other metal detectors or power lines



## SYSTEM SPECIFICATIONS

Weight (lbs): Standard batteries - 9.26  
All components with case - 33.07

Dimensions (inches): Length fully extended - 54.33  
Search head - 12.40 x 6.89

Battery type: Lithium-polymer cells

Endurance (hrs) standard battery: MD only - 12; GPR only - 10;  
MD and GPR - 8

Maximum distance (meters) between detectors operating simultaneously:  
2 detectors - 2m / 4 detectors - 5m / 10 detectors - 10m

## APPLICATIONS

- Dense or highly cluttered minefields where discrimination provides greater efficiency and clearance rates
- Deep buried, low metal mines and UXO

Dates	Area Searched (m <sup>2</sup> )	Total Chips	Clutter Calls	Clutter Rejection	Mine Calls	Mines Found
Jan 12 -Sep 20	5,531,813	4,649,921	4,575,894	98.43%	74,027	1,185



Control Panel



Mode Selector Switch



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