LUXOR
Large Loop Unexploded Ordnance Remediation

Humanitarian demining robot
Unexploded ordnance (UXO) remediation

- Locates UXO beneath the ground surface
- Real-time detection, marking, and mapping
- Supports teleoperation and autonomous operation
- Uses commercially available Land Tamer 6x6 all-terrain vehicle
- Field tested in Cambodia

Capabilities

- Maps and records GPS coordinates of UXO
- Physically marks UXO locations
- Remotely controlled to keep demining personnel out of danger
- Supports autonomous operation

Design Features

- Uses three 1m x 1m Ebinger UXPEX 740M large loop, deep search metal detectors
- Differential GPS supports mapping of sensor path and targets with centimeter accuracy
- Automatically controls detector height
- Detects and avoids obstacles in its path

Sponsors

- US Army Night Vision and Electronic Sensors Directorate (NVESD)
- US Department of Defense Humanitarian Demining R&D Program

LUXOR quickly detects, maps and marks landmines in large, open areas.

The operator control center shows a map of the coverage area.