



# Ant-Droid Mine Explorer™

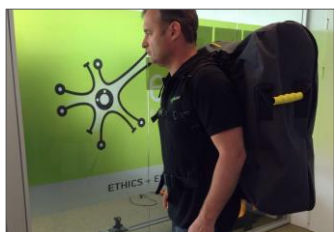
SMART DEMINING

Ant-Droid Mine Explorer™ is the most advanced demining robot in the market, specifically designed for this purpose. Its sensing capabilities, lightness, robustness and autonomy make this vehicle a powerful tool to make demining operations more efficient, reliable and safe.

*Deployed in minutes*

*Explores more than 5.000m<sup>2</sup> / day*

*Detects Land-Mines, UXOs and IEDs*



**Backpack portable** – weight and dimensions allow easy transport anywhere by any means.



**User friendly** – Configured, monitored and controlled with a very powerful GIS station.



**Tele-Operation** – Manually commands and tracks the robot. Also, integrates threat analysis.

## Verification and analysis of targets with “Autonomous demining pack”

### Efficiency

Ant-Droid Mine Explorer™ is able to analyze extensive mine/UXO affected areas.

It is an excellent tool to achieve dramatic results in mine area reduction activities. In good conditions one unit performs 5.000 m<sup>2</sup>/day

One single operator can manage multiple Mine-Explorers working in parallel.

Robots can work 24x7 performing up to 8h between recharges, which can be performed in seconds by hot-swapping standard military batteries

### Reliability

The robots are equipped with high-quality differential RTK GPS sensors, achieving 2cm accuracy on the field.

Its design makes it extremely stable, even performing in steep slopes, in heterogeneous terrains and climatic conditions.

The whole system communicates one to each other in different frequencies to guarantee maximum coverage and data quality.

Mine Explorer is equipped with the most acknowledged detection sensors in the market, specifically from Vallon GmbH.

## Sensors

Ant-Droid Mine Explorer is modular and can equip different sensors.

Ant-Droid Vallon MD Kit is a payload installed in the Mine Explorer, which confers to the robot the acknowledged detection quality of Vallon sensors.

## Autonomy

With two military standard batteries, the rover can work unattended up to 8 hours.

Mine Explorer is able to plan its work automatically and return for charge when required.

After servicing, it automatically returns to its work plan.

## Awareness

Using embedded sensors, expert knowledge and the collected experience, the Mine Explorer develops a self-awareness, which enables intelligence behaviors: path planning, sense & avoidance tactics, shadow area detection... It all returns in cost, safety and quality.

## Main Features



**Signaling** – Audio and lighting for safety and awareness.



**Front panel** – Shows the Mine Explorer state, batteries level, alerts...



**Arms** – Provide more stability to the vehicle, apart from housing torches, cameras and other sensors.



**Communications** – Different RF bands to ensure robust connectivity and security.



**GPS** – All elements in the Ant-Droid solution are positioned with ultra-high accuracy in the field.



**Video** – Real-Time switchable video streaming for day and night conditions.



**Modularity** – The modular and expandable design allows integration of multiple payloads.



**Batteries** – Two military standard Li-ion rechargeable set. Easy to change (hot swappable). Also, the multi-bay charger is available.



**Demining payloads** – Designed to maximize the detection of mines, UXOs and IEDs.



**Low pressure** – Wheels and tracks designed to transmit little pressure on the ground.

## Field inspection and quality assurance procedures with “Personal safety pack”

## Safety

Ant-Droid Demining Solution™ minimizes the human risk during explorative and verification phases.

When operators enter the field they are always controlled and they carry the best information of the status of the field with them.

## Service

GeoEntec Environment Technologies provides not only the solution but also training and consulting services.

Keep in touch with our commercial network to learn what ebotlution can do for you and your specific requirements.

Check out at [www.geoentec.com](http://www.geoentec.com)

## Accessories

Backpacks, harnesses, battery packs, tracks, chargers... All the accessories and spare parts are available also from our webpage.

Request assistance, our sales team will contact you to provide with all the information you may need.

GeoEntec Environment Technologies offers product support, customer training and equipment consultancy. Additionally, a full range of spare parts and accessories for all our set of solutions is available.

Contact our sales team in Gernika or any of our agents around the world to get more information on deployment options, quotations or questions.

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[www.geoentec.com](http://www.geoentec.com)  
[info@geoentec.com](mailto:info@geoentec.com)