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MQ 02

ANTIGAME BACKPACK

Autonomous guardian of agricultural and natural areas: Monitoring and crop protection system using repulsion of pests such as rabbits, wild boars, birds, and other game animals.

Technical data

Manoïd robot model: MQ02

Dimensions: 820 × 430 × 570 mm

Weight: 50 kg

Autonomy: up to 2.5 hours

Protection rating: IP66 (MQ02) and IP65 (Backpack)

Payload: 15 kg

Operating temperature: -20°C to +55°C

Navigation: advanced autonomous

Embedded AI: Vision Sentinel AI, NIS2 security, no cloud

Not ATEX certified

ADVANTAGES

-All-terrain capability
-Agility
-3-hour autonomy (robot battery + backpack)
-Programmed autonomous patrols
- Embedded ZYGOS AI — identification of more than 50 species
- Real-time SMS/email alerts to the owner
- ROI < 12 months (compared to average wildlife damage in France)

Embedded equipment & sensors

- 4K HD day/night camera — detection of animals and intruders
- IR thermal camera — 200 m night vision + animal heat detection
- Multispectral NDVI camera — crop damage / plant stress analysis
- 3D LiDAR — terrain mapping / fences / risk areas
- RTK GPS (2 cm accuracy) — incident geolocation / precise reporting
- Directional microphone — animal sound detection / acoustic alerts
- 4G/5G + LoRa connectivity — for remote rural areas
- Embedded NVIDIA GPU — AI recognition of 50+ species (ZYGOS AI)
- 2 TB SSD — mission archiving / insurance evidence

MISSIONS

Specific fields:

Agriculture, forestry, rural municipalities, airports

Examples of missions (non-exhaustive):

-Night patrols around cultivated plots
-Detection of wild boars, deer, badgers, foxes
-Deterrence before crop damage occurs
-Monitoring vineyards, market gardening, cereals
-Detection and reporting of post-intrusion damage
-Mapping of recurring risk areas
-Monitoring water points and troughs
-Forest surveillance against poaching
-Detection of illegal logging and vehicle intrusions
-Wildlife monitoring (counting, movement corridors)
-Fire outbreak detection (thermal camera)
-Inspection of forest tracks after storms
Wildlife hazard management at airports: bird and mammal detection
-Incident reporting for civil aviation authorities (DGAC)
-Autonomous night surveillance between flights
-Mapping nesting areas
-Protection of green spaces and municipal parks
-Monitoring ponds and communal water bodies
-Night patrols in municipal wooded areas

0	100%	IP65/67	50 +	360 °	<12 mois
Weapons	Deterrence	Protection	Species identified	Night surveillance	Typical ROI

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