



**MIRA**  
**TECHNOLOGIES**<sup>GMBH</sup>

## Company Profile

- Founded in 2008, is a spin-off company of Mira Group – a manufacturer of Security, Environmental Monitoring, Automatization and IoT Solutions
- Visit [www.miratechnologies.at](http://www.miratechnologies.at)
- The Magus brand is an integrator and provider of security, environmental monitoring, automatization and IoT solutions manufactured by Mira or third parties
- Mira Group has 24 years of experience as an integrator of complex projects especially in the fields of security & public safety

## More About Us



40 Employees with a strong technical and academic background



Have our own Research & Development Center



Mira Group Presence: Romania, Austria and the UAE



Balanced Portfolio of Solutions and Products



Headquarters: Voluntari, Romania



Expected Turnover 2022: 25M USD with already signed contracts

# Our Products

## MAGUS HBD , GeoPS , FPS, CC.

# **MAGUS** **HBD**

Magus HBD is a system for the detection of humans hidden inside various types of vehicles or containers related to cross-border criminality. The system can operate independently as a standalone solution or integrated in a Command & Control system.

- MAGUS HBD detects and processes the vibrations generated by the human body. These vibrations are transferred to the vehicle / container and are detected by high sensitivity



# **MAGUS** **HBD**

- The software application provides a user-friendly web-based interface where the results of the scanning process are displayed.
- Versions : Wireless , Wired or Hybrid (both Wired and Wireless).
- It uses Artificial Intelligence to lower the false alarm rates





Ready to Detect



Car



Van



Truck



Long Truck



5%



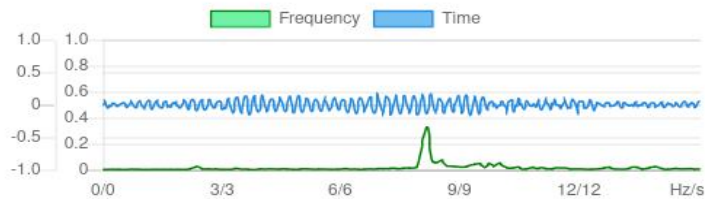
Wind  
Speed:  
0km/h



-34dB

100%

Person Detection Sensor : HBD Pers. 03



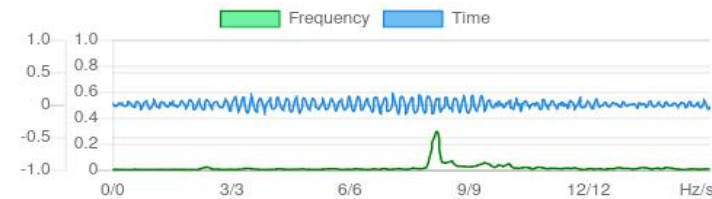
-29dB

100%

X: 3° Y: 1°



Person Detection Sensor : HBD Pers. 02



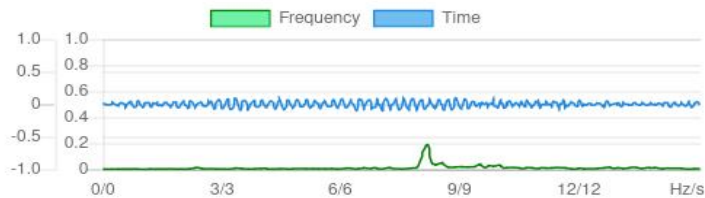
-46dB

100%

X: 1° Y: 0°



Person Detection Sensor : HBD Pers. 04



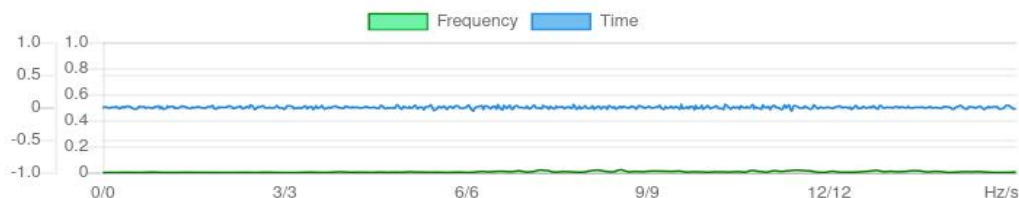
-50dB

100%

X: 0° Y: 2°



Ground Sensor : HBD Env. 1



-34dB

100%




Magus Geosensor Protector System (Magus GeoPS) is a state-of-the-art Perimeter Intruder Detection System (PIDS), based on seismic technology, and suitable for remote perimeter protection and permanent monitoring.

- Critical infrastructure such as: military installations,
- Prisons, borders, airports, shipping ports and docks,
- It uses Artificial Intelligence for low false alarm rate







STATUS

General

Unit

Sensors

Sensitivity

CONFIGURATION

EVENT LOG

ADMIN CONFIG

Full Screen

Dark Mode

US

M

Administrator

Unit Status

General Alarm: Yes

Tamper: No

Presence of Water: No

Outside Voltage Range: No

Server Communication Failure: No

Power Supply: 12.2V

Sensors Status

1


2

3

4

5

6



8

Relay Status

1

2

3


4


Legend


Inactive


Active


Alarm

 Threshold

 Car

 Person

 Manual Digging

 Mechanized Digging

Signal Plots

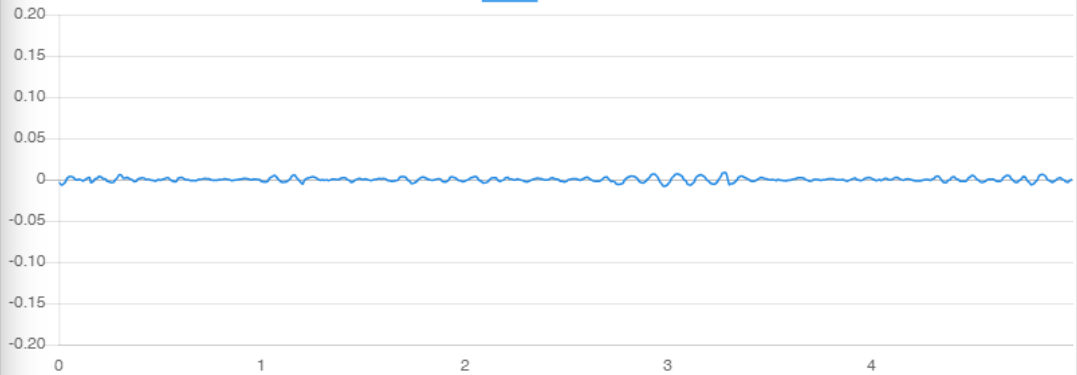
Scale [mV]

200

Set Scale

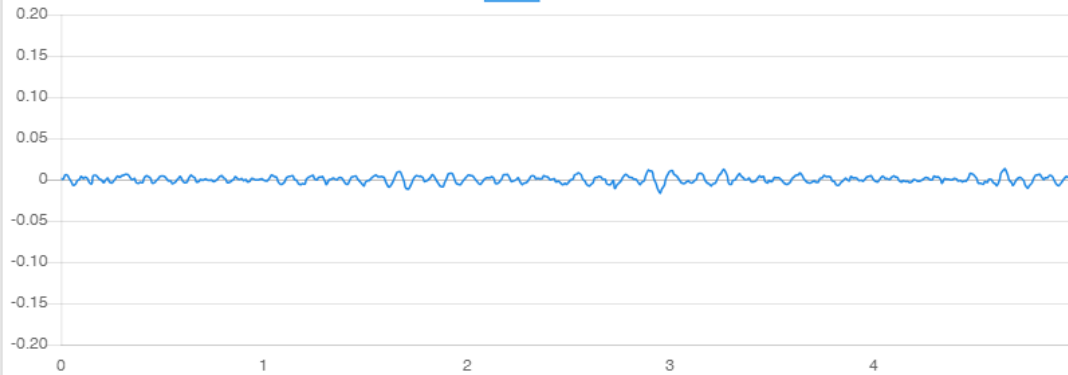
Sensor 1 [99, 4, 2]

Time



Sensor 2 [100, 2, 1]

Time





Magus Fence PROTECTOR System (Magus FPS) offers the best-in-class performance to handle the most challenging security scenarios. This product provides complete perimeter protection and it can operate independently as a standalone solution, or it can be integrated into a complex Perimeter Intrusion Detection System (PIDS).



## **MAGUS** **FPS**

The 'cut or climb' intrusion attempts are detected by the sensor cable. The vibrations generate an electric signal through the sensor cable.

- High rate “true-reading” positive alarms
- Coverage Perimeter: 600m per Processing Unit (300m left, and 300m right of the MFPSPU), intrusion localization with a resolution of up to 3m
- Bigger Perimeter length possible on request
- Accelerometer inside
- VideoAnalytics embedded





Administrator



Dashboard



Status



Configuration



Event Log

## Unit Information

ID: DEMO FPS  
 Hardware Version: 1  
 Software Version: 1  
 Serial Number: 1425222003545

## Unit Status

Tamper Alarm: No  
 Communication Alarm: No  
 General Alarm: No  
 Shock/Position Alarm: No  
 Power Supply Voltage: 23.9 V  
 Unit Temperature: 16.75 °C

## Zone 1

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

## Zone 2

0 | 1

## Input Status

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

## Output Relay Status

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

## Camera Status

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

## PTZ Status

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

## Legend



Inactive



No Alarm



Faulty



Alarm



PERSON DETECTED



CAR DETECTED



TAMPER ALARM



ACCELEROMETER ALARM



SENSITIVE CABLE ALARM



INCLINATION ALARM



TEMPERATURE ALARM



FAULTY ACCELEROMETER



# MAGUS CC



MAGUS CC is an Integrated Command & Control Software Management Platform for physical protection systems and third-party applications with an open architecture API server. MAGUS CC provides the operators and stakeholders with an excellent tool to easily manage different systems over an IP network. The operators have a Common Operation Picture (COP) of all system components, integrated in one management software platform.



# MAGUS CC



Physical Security Information Management (PSIM platform) – integration and management of all physical security systems, situational awareness, command and control.

It can integrate different sensors from different vendors : Drones , Radars , etc.

# Our R&D Facility

## Our R&D Facility

- Opened in 2013
- R & D Laboratories:
  - Software Development
  - Electronics Development and Manufacturing
  - Testing Laboratory
  - Climatic Chamber
  - Mechanical workroom equipped with a 3-Axis CNC machine and 3D printer
  - Automatic PCB designing machines



## Our R&D Facility

### Team

- Software & Electronics engineers and technicians
- Partnerships with Universities



# Thank you!