MIRA TECHNOLOGIES

Company profile & Insights

Reliable detection

Advanced tracking

Accurate detection

Early intrusion detection

MIRA TECHNOLOGIES

Your partner in IoT and Security Solutions

Excellence in Security Solutions

Critical Infrastructure

Border Security

Green Energy

Residential

Agriculture

Logistics

The road to success

Core Values

MIRA TECHNOLOGIES

Innovation

Commitment

Reliability

Focus

Sustainability

Customer Centric

Research

Implementation

Areas of Expertise and Services

- **Design and integration of complex security systems**
- **Command and Control Centers**
- **Border Protection Solutions**
- **Emergency & Crisis Management Systems**
- **Software design of customized solutions** for the protection of critical infrastructure and data acquisition systems
- **Real-time monitoring:** Surveillance and control of sensors/systems
- **Research and Development**
- **Design, Implementation, and Project Management** of complex projects
- **Technical Training**

MAGUS

PERIMETER INTRUSION DETECTION SYSTEMS

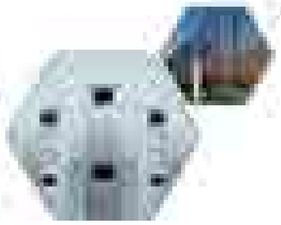
MAGUS FOPS

MAGUS MD

MIRA TECHNOLOGIES

MAGUS RADAR

MAGUS LIDAR



MAGUS FPS

MAGUS GeoPS

Fence Protector System- MAGUS FPS

Advanced Perimeter Intrusion Detection System

The MAGUS FPS Pro is a state-of-the-art, all-in-one perimeter security solution that combines Sensitive Cable, Accelerometers, and Video Analytics to provide unmatched detection accuracy for critical infrastructure protection.

- **Sensitive Cable Detection:**
  Precisely detects cut/climb attempts with adjustable sensitivity.
- **Magus MiniFPS Units:**
  Equipped with accelerometers and inclination sensors, dividing the perimeter into secure zones.
- **Intelligent Video Analytics:**
  On-board analytics differentiate between humans and vehicles in alarm zones, minimizing false alarms.
- **Automatic PTZ Camera Positioning:**
  Cameras focus on alarm zones, ensuring a fast, targeted security response.
- **Robust, Weatherproof Design:**
  Operates effectively in temperatures from -20°C to +50°C; resistant to water (IP65), UV, and electromagnetic interference.

MAGUS FPS- Technical Information

Advanced Perimeter Intrusion Detection System

- **Coverage:** 600m per unit (300m left, 300m right).
- **Zones:** 1–3 zones per module, including gates.
- **Outputs:** 4 relays (3 for cables, 1 for anti-tampering).
- **Sensitivity:** Adjustable in 8 hardware and 100 software levels.
- **Communication:** RS-485 or Ethernet integration.
- **Weatherproof:** IP65-rated for harsh environments.
- **Temperature Range:** Operates reliably from -30°C to +70°C.
- **Power:** 10–48 Vcc, optional PoE, 40mA/12V
- **Anti-Tampering:** Alarms for power cuts, cable tampering, or unauthorized access.

FEATURES & BENEFITS

- **Sensitive cables, accelerometers, and video analytics integration.**
- **Scalable design for several kilometers of coverage.**
- **Compatibility with CCTV, PTZ cameras, and PSIM platforms.**
- **Reliable performance in extreme weather.**
- **High-accuracy intrusion detection with minimal false alarms.**
- **Standalone functionality or system integration flexibility.**
- **Quick installation and configuration.**
- **Adaptable for diverse industries and applications.**
- **Uninterrupted operation with reliable power options.**

MAGUS FPS- Applications

Advanced Perimeter Intrusion Detection System

CRITICAL INFRASTRUCTURES

ENVIRONMENT & SUSTAINABILITY

COMMERCIAL & RESIDENTIAL

GeoSensor Protector System- MAGUS GeoPS

The Magus Geosensor Protector System (GeoPS) is an advanced Perimeter Intrusion Detection System (PIDS) designed for seamless remote perimeter protection and monitoring. By leveraging seismic technology and artificial intelligence, it detects and classifies vibrations caused by footsteps, vehicles, digging, tunneling, or other activities—whether above or underground.

- **380° Detection Coverage:** Minimum 5m radius per sensor;
- **AI-Enhanced Accuracy:** Learns and adapts to the environment, reducing false positives;
- **User-Friendly Software:** Intuitive interface for configuration and monitoring;
- **Scalable System:** Expandable with interconnected processing units for large perimeters;
- **Integration Capabilities:** Easily integrates with CCTV, alarm panels, and other security systems;
- **Low Power Consumption:** Operates efficiently with optional solar battery backup;
- **Weather-Resilient:** Performs flawlessly under rain, hail, snow, and extreme temperatures (-30°C to +70°C);
- **Electromagnetic Noise Protection:** Ensures signal reliability

MAGUS GeoPS- Technical Information

- Hardware Configurations: Options for 1, 4, or 8 attached sensors.
- Network Integration: Supports multiple GeoPS processing units for extensive coverage.
- Sensor Sensitivity: 32 sensitivity levels configurable per sensor.
- Customizable Alarms: Detect footsteps, vehicles, digging, tunneling, and more.
- AI Features: Adjustable algorithm sensitivity and firmware updates for AI improvements.
- Communication Options: Ethernet, RS-485, Fiber Optic, GPRS, LoRa, and Wi-Fi compatibility.
- Environmental Resilience: Operates in temperatures from -30°C to +70°C with IP66 ingress protection.
- Weather Resistance : Unaffected by rain, hail, snow, or other weather changes.
- Power Supply: Configurations for mains power (220V/50Hz or 110V/60Hz) or solar panel-charged batteries.

FEATURES & BENEFITS

- **Smart detection of vibrations from footsteps, vehicles, digging, and tunneling.**
- **Circular 360° detection coverage with a minimum 5m radius per sensor.**
- High “true -reading” positive alarm rates for reliable security.
- **Concealed underground installation for smart, discreet protection.**
- **Compatibility with varied terrains and soil types.**
- **Resistant to harsh weather and electromagnetic noise.**
- **False alarm reduction through smart AI-driven algorithms and environment learning.**
- **Scalable system with interconnected processing units for large perimeters.**
- **Standalone functionality or smart integration with PSIM platforms, alarm panels, CCTV, and perimeter lighting.**
- **Remote smart monitoring and control of system status, sensitivity, and alarm information.**
- **User-friendly software interface for real-time monitoring and alerts.**
- **Low power consumption with flexible options for mains or battery operation.**

MAGUS GeoPS- Applications

REMOTE SITES

GREEN ENERGY

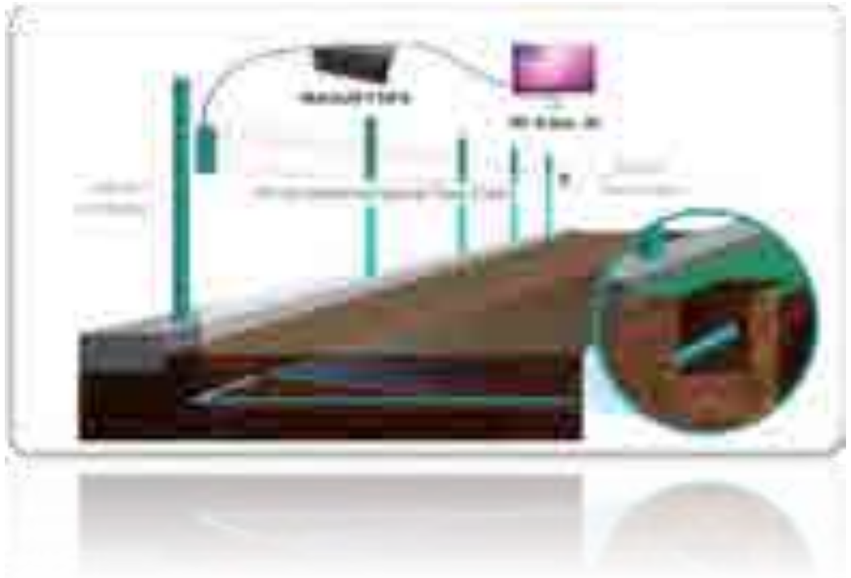
OIL & GAS INDUSTRY

Fiber Optics Protector System- MAGUS FOPS

Magus FOPS is a state-of-the-art Perimeter Intrusion Detection System (PIDS) engineered for critical infrastructure, industrial sites, and beyond. Leveraging optical fiber vibration analysis and AI, Magus FOPS ensures real-time, precise, and reliable detection of intrusion events along perimeters up to 50 km long.

- High detection accuracy for **fence climbing, cutting, digging, or vehicle intrusion**.
- Resilient in extreme weather conditions with **UV-resistant, anti-rodent optical cables**.
- **Web-based Interface**: Easy control and real-time adjustments.
- Energy -efficient and operational during power interruptions or vandalism.

MAGUS FOPS- Technical Information



- Long-Range Monitoring: Configurable to secure perimeters up to 50 km.
- Low Power Consumption: Efficient design reduces energy usage and operational costs.
- Durable Outdoor Unit: Housed in a rugged ABS enclosure with IP68 certification for reliable performance in extreme climates.
- Indoor Unit: IP21-certified, powered by 230V/50Hz, ensuring robust indoor operation.
- Advanced Optical Cable: Single-mode G.653D fiber, UV-resistant, and anti-rodent, built for harsh environments.
- Adaptable Detection Zones: Single or dual-zone configuration to match specific perimeter requirements.
- Shielded from Interference: Protected against electromagnetic disruptions for stable operation.
- Seamless Integration: Connects effortlessly to existing security setups, enhancing overall system efficiency.

FEATURES & BENEFITS

- Real-time vibration monitoring detects intrusions instantly along perimeters up to 50 km.
- Pinpoint accuracy locates intrusions within 1 meter, minimizing response time.
- Smart algorithms reduce false alarms by learning and adapting to the environment.
- Compatible with fences, underground setups, or hybrid configurations for flexible deployment.
- Operates reliably in harsh conditions, with UV-resistant, anti-rodent optical cables.
- Low-maintenance design ensures minimal upkeep, even in remote locations.
- Web-based interface allows for easy monitoring, control, and real-time adjustments.
- Energy-efficient system operates seamlessly during power interruptions or sabotage.
- Integrates with existing security systems, such as CCTV, lighting, and radar, for unified monitoring.

MAGUS FOPS- Applications

LARGE PERIMETERS up to 50 km

FARMS & AGRICULTURE

WAREHOUSE & STORAGE FACILITIES

MAGUS LiDAR

MAGUS LIDAR is an advanced intrusion detection system designed to secure large outdoor areas and critical infrastructure. Utilizing cutting-edge LIDAR technology, it ensures precise detection and quick response to potential threats.

- Real -time, 24/7 monitoring.
- Accurate target detection with minimal false alarms.
- High reliability and easy integration with existing security systems.

MAGUS LiDAR- Technical Information

- Detection Range: Up to 500m with millimeter-level accuracy.
- Dual-Camera System: Thermal and optical cameras with 100m IR range for verification.
- Processing Unit: Quad-core CPU, 8GB RAM, 128GB SSD for real-time data fusion.
- Refresh Rate: 10 Hz for rapid threat detection and classification.
- Weather Resistance: IP67-rated for reliable operation in rain, fog, and snow.
- Power Supply: Operates on 12V DC or PoE for flexible deployment.
- Integration: Seamlessly connects with CCTV, access control, and Command & Control platforms.
- Environmental Performance: Functions in temperatures ranging from -30°C to +70°C.
- Low False Alarms: Advanced data fusion ensures accurate alerts, reducing unnecessary disruptions.
- Compact and Durable Design: Built for diverse installations and harsh conditions.

FEATURES & BENEFITS

- Laser sensor detection range of up to 500m.
- Dual-mode cameras (thermal and optical) for precise verification.
- Real-time data fusion for accurate alerts and minimal false alarms.
- Operates reliably in all weather conditions, including rain, fog, and snow.
- Integration-ready for seamless connectivity with CCTV and access control systems.
- Compact design for flexible installation across diverse environments.
- IP67-rated for durability in harsh outdoor conditions.
- Tracks and identifies multiple targets simultaneously.
- User-friendly dashboard for remote monitoring and real-time alerts.
- Low-maintenance operation with long-lasting components.

MAGUS LiDAR- Applications

FEDERAL BUILDINGS

CRITICAL INFRASTRUCTURES

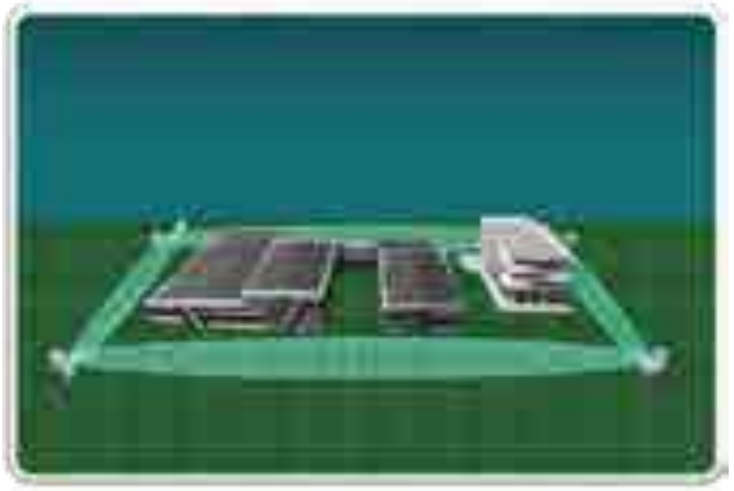
AIRPORT, PORT, RAIL SECURITY

Microwave Barrier- MAGUS MB

Cutting-edge perimeter intrusion detection for large-scale outdoor areas and critical infrastructure.

Magus MB uses a transmitter and receiver to create an invisible microwave field. When an object disrupts this field, the system triggers an alarm.

- Reliable **presence detection** of both moving and stationary objects;
- Immune to environmental interference like fog, wind, or rain;
- **Programmable detection zones** for tailored security needs.
- **Unparalleled Detection Range**: Protects areas up to 300m with precision.
- **24/7 Surveillance**: Reliable performance in all weather and lighting conditions.
- **Rapid Threat Identification**: Advanced algorithms minimize false alarms.
- **Seamless Integration**: Works with CCTV, access control, and more.
- **Superior Durability**: Built to last in the harshest environments.



MAGUS MB- Technical Information

- **Long-Range Detection**: Monitors up to 300m with precision for large-area security.
- **Focused Beam**: 13° x 13° beam width for accurate intrusion monitoring.
- **Global Frequency Compliance**: Operates on the 24 GHz ISM band for worldwide use.
- **Low Power Consumption**: Typical power usage of 3W, ensuring energy efficiency.
- **Compact Form Factor**: Small design (102 x 102 x 70 mm) for versatile installation.
- **Weatherproof Design**: Reliable in rain, fog, wind, and extreme temperatures.
- **Flexible Alarm Outputs**: Supports Ethernet and relay outputs for easy system integration.
- **False Alarm Reduction**: Advanced signal processing minimizes environmental interferences.
- **Programmable Zones**: Customizable detection areas for tailored security needs.
- **Low Maintenance**: Durable design reduces operational costs and downtime.

FEATURES & BENEFITS

- **Advanced threat classification using algorithms to minimize false alarms and enhance threat identification accuracy.**
- **Unified perimeter protection covering up to 300 meters for comprehensive outdoor intrusion detection.**
- **Weatherproof design ensures functionality in extreme conditions like rain, fog, snow, and high winds.**
- **Dual-sensor verification combines high-sensitivity microwave technology with additional sensors for reliable detection.**
- **Seamless integration with existing systems such as CCTV, access control, and PIDS for centralized monitoring.**
- **Customizable detection zones to adapt security coverage to specific perimeter requirements.**
- **Compact and robust design for durable, low-maintenance performance in harsh outdoor environments.**
- **Real-time monitoring with live streaming of detected events for immediate situational awareness.**
- **Scalable architecture enables expansion with additional sensors or integrated systems as**

MAGUS MB- Application

MILITARY & INDUSTRIAL FACILITY DEFENSE

COMMERCIAL PROPERTY

TRANSPORT & LOGISTICS

MAGUS RADAR

Designed for critical infrastructure, borders, and sensitive areas, Magus Radar solutions provide unmatched surveillance capabilities to protect your most valuable assets. Whether you need comprehensive coverage for large outdoor areas or a compact solution for specific installations, Magus Radar systems are your trusted security partner.

- **Magus Radar 200**: Compact and efficient, ideal for small-to-medium areas with a detection range of up to 150m (human) and 250m (vehicles). Tracks up to 20 targets with a wide ±75° field of view.
- **Magus Radar 250**: Designed for larger areas, it offers up to 250m (human) and 350m (vehicles) detection. Tracks 20 targets with precise ±10° field of view.
- **Magus Radar 350**: The most advanced model, ideal for critical infrastructures, with up to 350m (human) and 500m (vehicles) detection. Tracks 32 targets and features ±10° field of view for high-resolution monitoring.

All models ensure all-weather operation, minimal false alarms, and seamless integration with security systems. Choose based on your coverage and tracking needs!

MAGUS RADAR- Technical Information

- **Frequency**: 24 GHz ISM Band (approved worldwide).
- **Detection Accuracy**: ±1m distance, ±1° angle.
- **Refresh Rate**: 10 Hz for real-time tracking.
- **Weight**:
- **Radar 200**: 0.6 kg.
- **Radar 250/350**: 1.64 kg.
- **Power Supply**: 12V DC or PoE.
- **Ranges**: Detects up to 350m (humans) and 500m (vehicles).
- **Tracking**: Tracks up to 32 targets simultaneously.
- **Environmental Resilience**: Operates from -30°C to +70°C.
- **Weatherproof**: Reliable in rain, fog, and snow.
- **Integration**: Connects to CCTV, access control, and Command & Control platforms.
- **Field of View**: ±75° (Radar 200), ±10° (Radar 250/350).

FEATURES & BENEFITS

- **Detection range of up to 350m for humans and 500m for vehicles.**
- **Multiple versions tailored for small, medium, and large installations.**
- **24/7 all-weather operation, unaffected by rain, fog, or snow.**
- **Advanced signal processing for accurate threat classification.**
- **Minimal false alarms with filters for vegetation, insects, and small animals.**
- **Seamless integration with existing CCTV, PSIM platforms, and access control systems.**
- **Tracks up to 32 targets simultaneously for comprehensive monitoring.**
- **Compact design for easy installation and deployment in diverse environments.**
- **High reliability in extreme temperatures and harsh conditions.**
- **User-friendly interface for real-time alerts and system control.**

MAGUS RADAR- Applications

SMART SURVEILLANCE

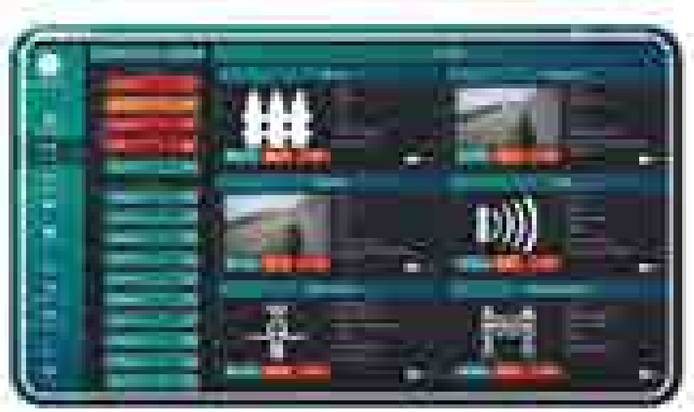
TRANSPORTATION HUBS

REMOTE SITES

Command and Control- MAGUS CC

MAGUS CC is a powerful Command & Control Software Platform that integrates and manages all security, communication, and infrastructure systems from a single, intuitive interface. Designed for seamless integration with physical security, building management, and emergency response systems, MAGUS CC enhances operational efficiency, situational awareness, and resource management across various sectors.

Unified Command & Control: Access all security and infrastructure data in one platform, enabling streamlined operations and better decision-making.
Enhanced Situational Awareness: Visualize incidents in real-time with dynamic mapping, 2D and 3D floor plans, and an intuitive GIS system for fast, informed responses.
Efficient Incident & Resource Management: Optimize dispatch, routing, and resource allocation with CAD-driven response protocols, reducing response time and maximizing efficiency.
Scalable & Flexible Platform: Built on an open architecture, MAGUS CC is designed to integrate with existing systems, support multi-vendor devices, and scale as needs grow.
Real-Time Data Acquisition & Monitoring: Collect and manage data from IoT devices, building sensors, video analytics, and more to provide operators with comprehensive monitoring and control.
Secure Communication Console: Integrate emergency communications to improve coordination and responsiveness during critical events.
Comprehensive Reporting & Logging: Generate customizable reports, log operator actions, and maintain compliance with automated documentation.



MAGUS CC- Technical Information

- **Real-Time Visualization**: Displays real-time sensor data, video feeds, and system statuses on dynamic GIS maps.
- **Seamless Integration**: Integrates multiple security and automation systems, including CCTV, PIDS, fire alarms, and access control.
- **Event Management**: Customizable Event Management Module supporting Standard Operating Procedures (SOP) for incident handling.
- **Open Architecture**: Open API for easy integration with third-party applications and external systems.
- **Scalable Platform**: Supports the addition of new systems and sensors for expanding security needs.
- **User-Friendly Interface**: Intuitive GUI with dynamic maps, 2D/3D floor plans, and real-time alerts for operators.
- **Resource Management**: Real-time dispatch and resource allocation for incident management and response.
- **Web-Based Application**: Accessible from any location with secure web access for centralized control.
- **Communication Module**: Integrates with third-party communication tools for enhanced situational awareness and coordination.
- **Flexible Deployment**: Web-based access allows for management from one or multiple control rooms, enhancing operational flexibility.

FEATURES & BENEFITS

- **Unified management of diverse security systems in one platform.**
- **Real-time visualization of events and sensor data on dynamic GIS maps.**
- **Seamless integration with systems such as CCTV, access control, PIDS, and building management systems.**
- **Event management module with step-by-step SOP guidance for operators.**
- **Remote monitoring and live streaming of video and system data.**
- **Scalable open architecture for future expansion with additional sensors or systems.**
- **Customizable modules, including communication and emergency response tools.**
- **Web-based application for easy accessibility from any location.**
- **Reporting and follow-up tools for detailed incident analysis.**
- **High reliability in managing critical infrastructure, transportation hubs, and urban environments.**

MAGUS CC- Applications

MIRA TECHNOLOGIES

Centralized Control For Complex Security Systems

Smart Management for Critical Infrastructure

Emergency Response Optimization

Smart Cities And Infrastructure Management

Valuable Insights

- Technological Advancements: AI powered systems and technologies
- Strategic Market Positioning: Align solutions with EU security mandates
- Business Expansion & Partnerships
- Customer-Centric Innovation
- Environmental-friendly security solutions
- IoT and Smart Ports Integration

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