Microseismic Photoelectric Perimeter Detection Systems 2Km Wireless Communication Distance

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DM200
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: TT, LC
- Supply Ability: 1000units per month

Product Specification

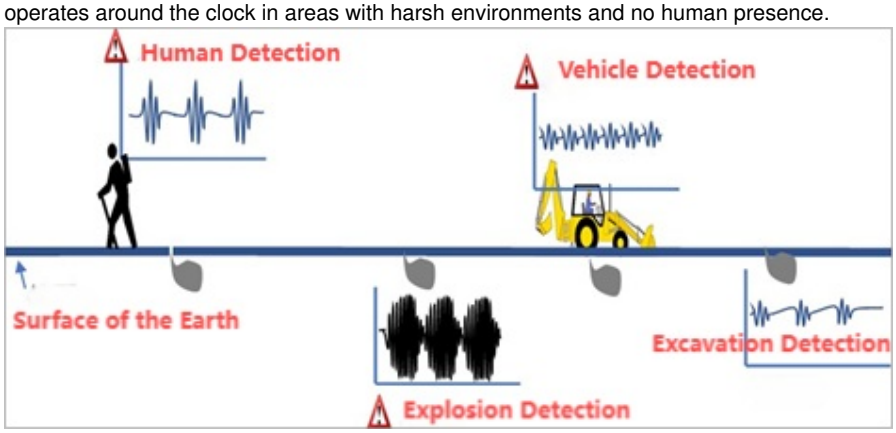
- Sensor Sensitivity: ≥20V/m/s
- Detection Radius: 30m (depending On Geological And Soil Characteristics)
- Types Of Detection Targets: Personnel, Vehicles, Animals
- Wireless Communication Distance: 2Km (under Open Conditions)
- Operating Temperature: 0-50 Degrees Celsius
- Waterproof Rating: IP67
- Application: Outdoor
- Alarm Output: Relay Output
- Detection Method: Infrared
- Compatibility: Compatible With Most Security Systems
- Installation: Wall-mounted
- Power Supply: AC/DC
- Detection Range: Up To 100 Meters
- Type: Security System

Product Description

Perimeter Defense System Microseismic Photoelectric Regional Intrusion Detection System DM200

1,Product Introduction

The DM200 system utilizes a microseismic detection method, based on the perception of microseismic signals from moving targets, and builds a vibration database for various moving targets. It constructs a machine learning model for complex environments, enabling the system to accurately and swiftly identify a variety of illegal intrusion targets such as personnel (walking, running, jumping), vehicles, and tanks. It can report intrusion events to a remote control center in real time and operates around the clock in areas with harsh environments and no human presence.



2,Functional highlight

High Precision:

1),**High Resolution**
The sensor has high resolution, capable of accurately distinguishing between different types of vibrations, such as walking, running, and vehicle movement.
2),**Precise Ranging**
By deploying sensors at multiple points, a vibration monitoring network that covers the entire perimeter can be established. Multiple sensors work in concert to precisely locate vibration signals, accurately determining the location of an intrusion.

Easy to Install

1),**Modular Design**
The system features a modular design, making installation and configuration straightforward and adaptable to various application scenarios.
2),**Wireless Deployment**
Supports wireless sensors and communication modules, reducing wiring costs and suitable for large areas and environments with complex terrain.

3,System Composition

The Microseismic Photoelectric Regional Intrusion Detection System mainly consists of microseismic sensors, data acquisition and processing units, alarm processing units, and control interfaces.

Microseismic Sensor

The microseismic sensor is a key component in the system, used to monitor and detect minor vibrations on the ground or structural objects. The basic principle is that the microseismic sensor perceives ground vibrations or structural vibrations caused by various activities (such as walking, vehicle movement, mechanical operations, etc.), converting physical vibration signals into electrical signals. These signals, after being amplified, filtered, and digitized, are transmitted to the data processing unit for analysis.

Data Processing Unit

The data processing unit is the core component of the system, responsible for receiving, storing, processing, and analyzing the vibration data from the microseismic sensors. Its main task is to extract useful information from a large amount of sensor data, identify potential intrusion behavior, and trigger corresponding alarms and response measures.
Here is the translation of the provided text into English:

The main functions of the Data Processing Unit include:Data Reception: Responsible for receiving data from the sensors and performing preliminary processing and storage.

Signal Processing:Applying various signal processing algorithms to analyze and process the collected data.
Signal Recognition:Identifying abnormal vibration patterns based on machine learning and artificial intelligence technologies.
Alarm Triggering:Triggering an alarm based on the analysis results.

Data Processing Unit

The Alarm Processing Unit is an essential part of the system, responsible for receiving alarm signals from the Data Processing Unit and implementing corresponding alarm measures.
The main functions of the Alarm Processing Unit include:
Alarm Reception: Receiving intrusion alarm signals sent by the Data Processing Unit.
Alarm Notification: Notifying duty personnel through various means.
Alarm Recording: Recording detailed information of each alarm, including time, location, event description, etc.
Alarm Linkage: Triggering the joint response of other security systems.
Alarm Management: Providing functions for querying, analyzing, and managing alarm information.

Control Interface

The alarm control interface is the bridge in the system that connects the data processing unit with various alarm devices, responsible for transmitting alarm signals and controlling the response of the alarm devices.

4, Specification

DM200 Specification (● yes, ○ no)		
Sensor Sensitivity	≥20V/m/s	●
Detection Radius	30m (depending on geological and soil characteristics)	●
Types of Detection Targets	Personnel, vehicles, animals	●
Wireless Communication Distance	2Km (under open conditions)	●
Operating Temperature	-40 to 70	●
Waterproof Rating	IP67	●

5, After-Sales service

Lifetime free model library upgrades, profesdional 24/7online service, customizable colors and languages.

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