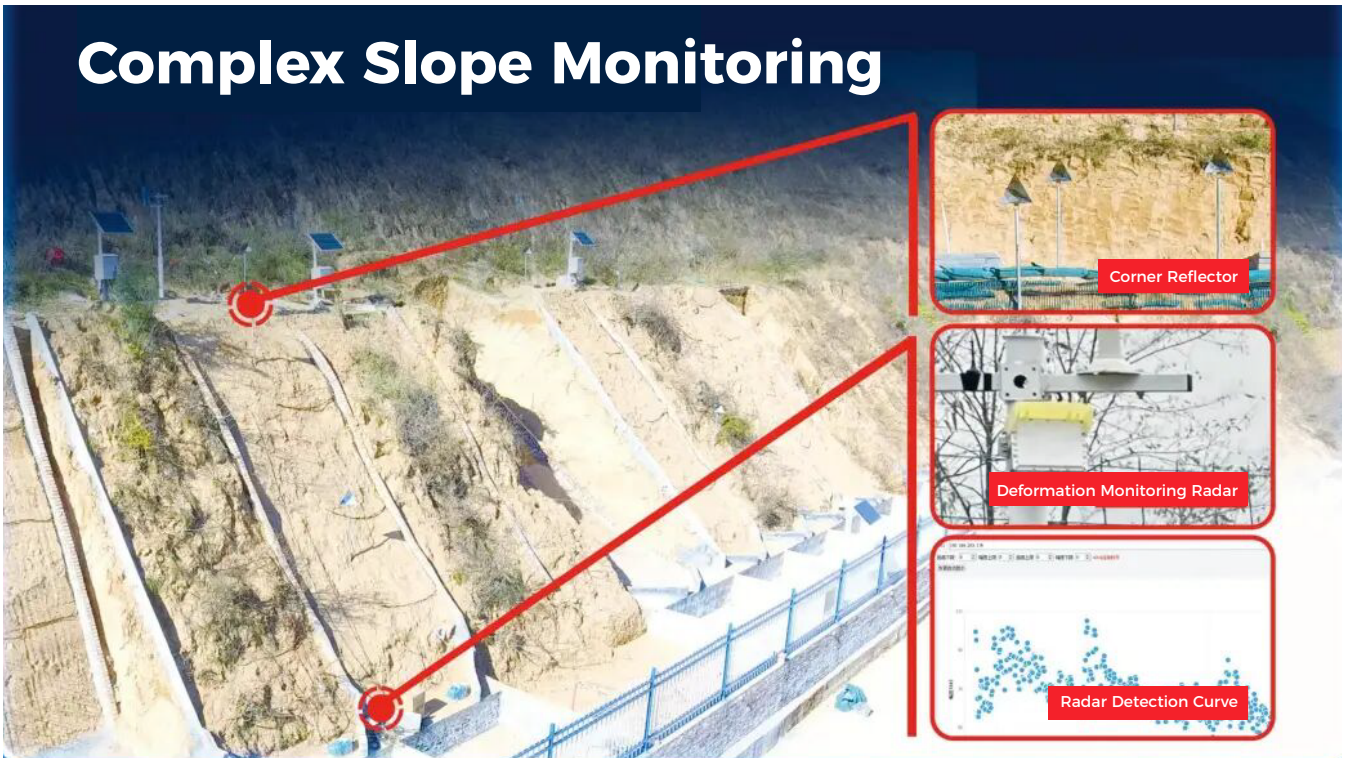
ClairWav-MD10

Micro-displacement Monitoring Radar

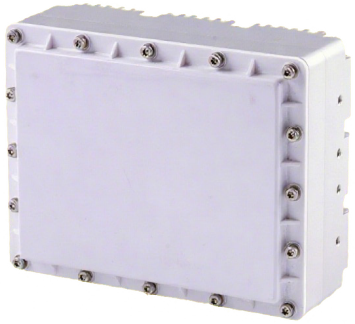


Overview

The ClairWav-MD10 micro-displacement monitoring radar is a new-generation phased array radar designed for real-time monitoring of micro-displacement changes on engineered and natural slopes, including slopes, mountains, mines, and dams. By analyzing displacement and movement trends, it provides early warning signals prior to slope instability, gaining critical time for emergency response and mitigating economic losses from geological disasters such as landslides, collapses, and dam failures.

Key Features

- Millimeter-wave radar technology enables precise capture of micro-displacement changes.
- All-weather continuous monitoring delivers highly reliable, real-time data updates.
- Roadside deployment allows for easy installation, maintenance, and servicing.
- Automatic analysis and alerting – no manual intervention required.



Specification

Model	ClairWav-MD10
Dimension	143*112*56.4mm
Weight	1.3kg
Environmental Temperature	-40 to 74℃
Power Supply	DC12V (8W)
Protection Class	IP67
Detection Range	200m
Monitoring Angle	Horizontal:±7°, Vertical:±7°
Ranging Accuracy	≤0.5mm
Data Rate	1fps
Detection Method	Point and Area Detection
Warning Alert	Displacement, Velocity, and Acceleration

Application Scenarios



Slope



Dam



Mountain

Ordering Information

Model	Description
ClairWav-MD10	Micro-displacement monitoring radar designed for real-time monitoring of micro-displacement changes on engineered and natural slopes, including slopes, mountains, mines, and dams.
EXT-CR	Corner reflector for ClairWav-MD10, ClairWav-SD1K and ClairWav-BH01.