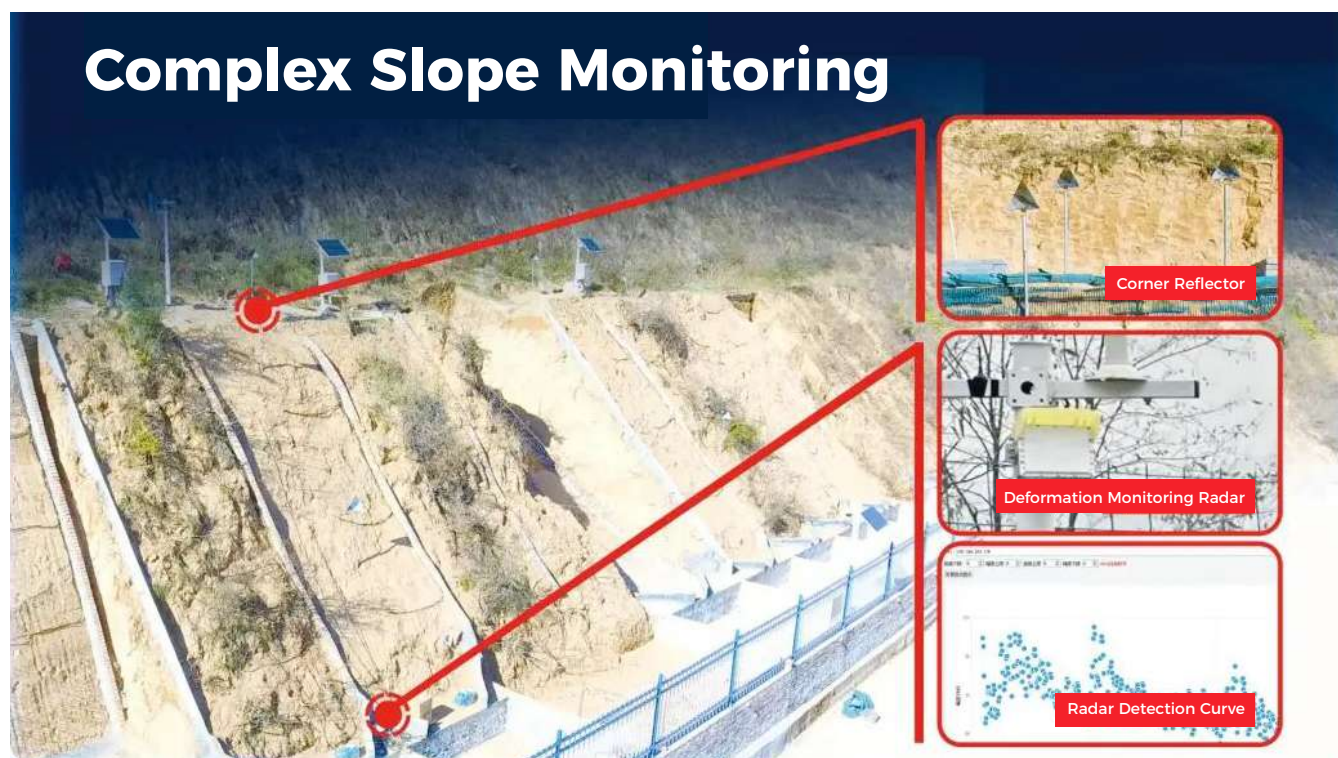


# ClairWav-MD10

## 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°C                              |
| 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.                                                                                                                |