ClairWav-SD1K

Slope Deformation Monitoring Radar

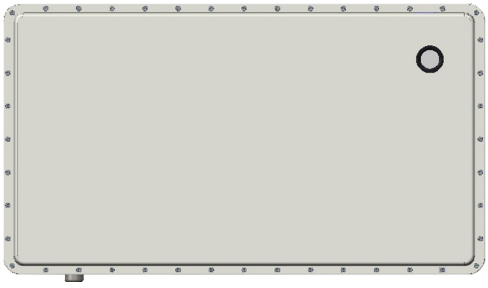


Overview

The ClairWav-SD1K slope deformation monitoring radar is designed for large-area applications including slopes, mountains, reservoir dams, and rockfill dams. It enables real-time monitoring of displacement, deformation, and crack propagation rates and ranges, delivering effective prevention and early warning against economic losses caused by landslides, collapses, debris flows, and other slope or dam failures.

Key Features

- Millimeter-wave radar technology captures displacement changes across a large field of view with sub-millimeter precision.
- All-weather continuous monitoring delivers highly reliable, real-time data updates.
- A single scan covers hundreds of meters, making it ideal for large-area slope and mountain monitoring.
- Simultaneous detection of multiple variables, including deformation, displacement, and cracks.
- Easy deployment with support for installation in complex terrain.
- Automatic analysis and alerting – no manual intervention required.



Specification

Model	ClairWav-SD1K
Dimension	510*286.3*52.9mm
Weight	7kg
Environmental Temperature	-40 to 74℃
Power Supply	DC12V
Protection Class	IP67
Detection Range	500m
Monitoring Angle	Horizontal:±50°, Vertical:±8°
Ranging Accuracy	≤1mm
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-SD1K	Slope deformation monitoring radar is designed for large-area applications including complex slopes, mountains, reservoir dams, and rockfill dams.
EXT-CR	Corner reflector for ClairWav-MD10, ClairWav-SD1K and ClairWav-BH01.