

MILLIMETER RADAR SENSING

...
**BRIDGE & SLOPE SAFETY MONITORING
MANAGEMENT SOLUTION**

Yteq Sense Technology Co., Ltd.

C O N T E N T S



01

SOLUTION

02

PRODUCTS

03

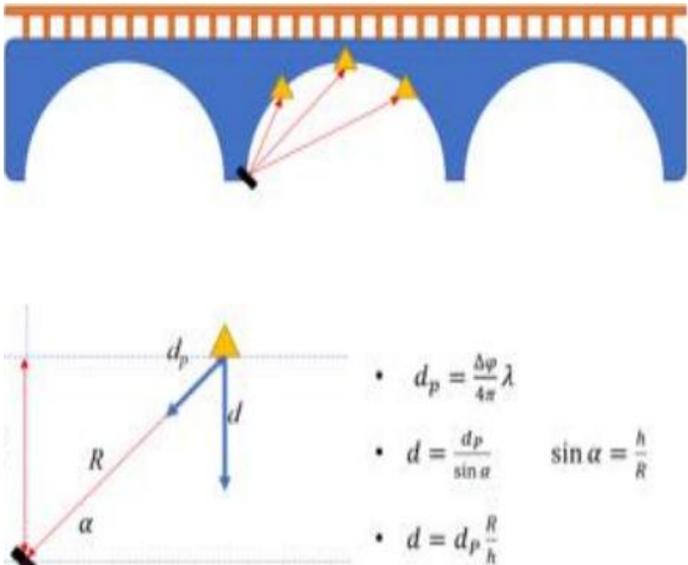
COMPANY

1

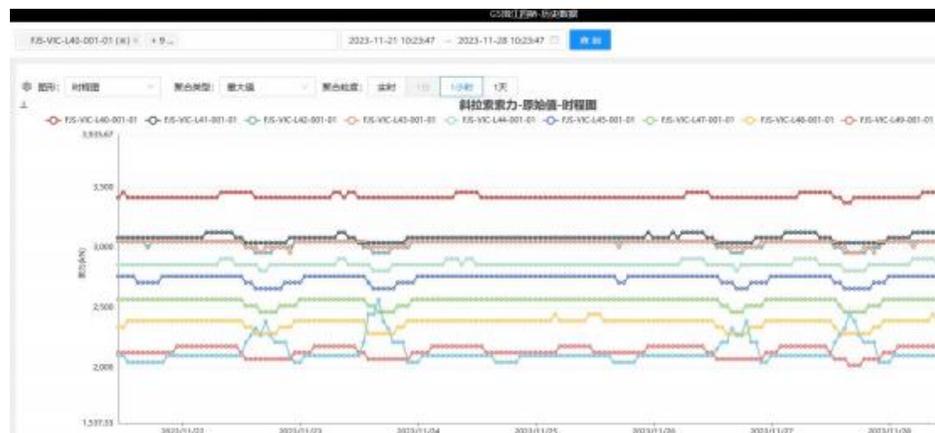
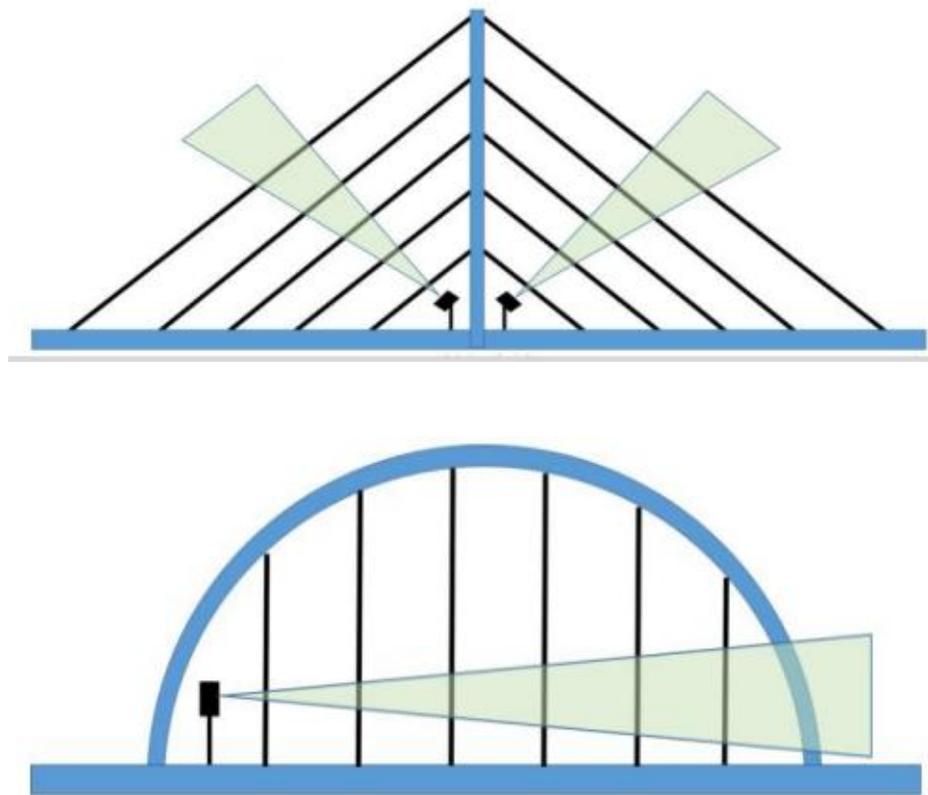
SOLUTION

Solution--Bridge Health Monitoring System

The bridge health monitoring system relies on the core technology of millimeter wave radar and combines multi-source data fusion capabilities to construct a complete system architecture covering data acquisition, transmission, processing, analysis, and application. By monitoring with sub millimeter level precision, accurate capture of parameters such as bridge displacement and vibration can be achieved around the clock. With the help of big data and artificial intelligence algorithms, anomalies can be automatically identified and timely warnings can be issued. At the same time, an intuitive user interface is provided to support customized operations, which has significant advantages such as high precision, high reliability, intelligent warnings, and easy deployment and expansion, providing strong support for the safe operation and full lifecycle management of bridges.

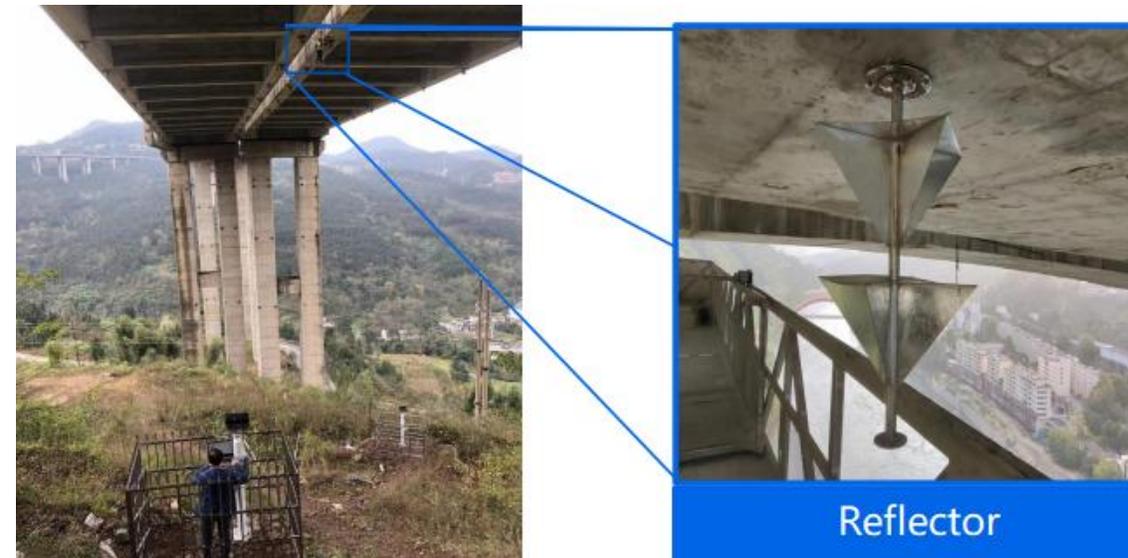
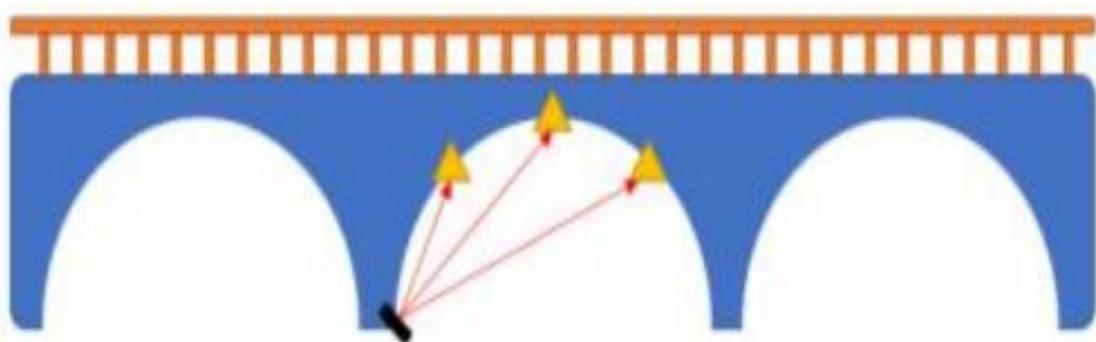


Solution--Bridge Health Monitoring System-Installation



Lasso Bridge Installation Guide

Solution--Bridge Health Monitoring System-Installation

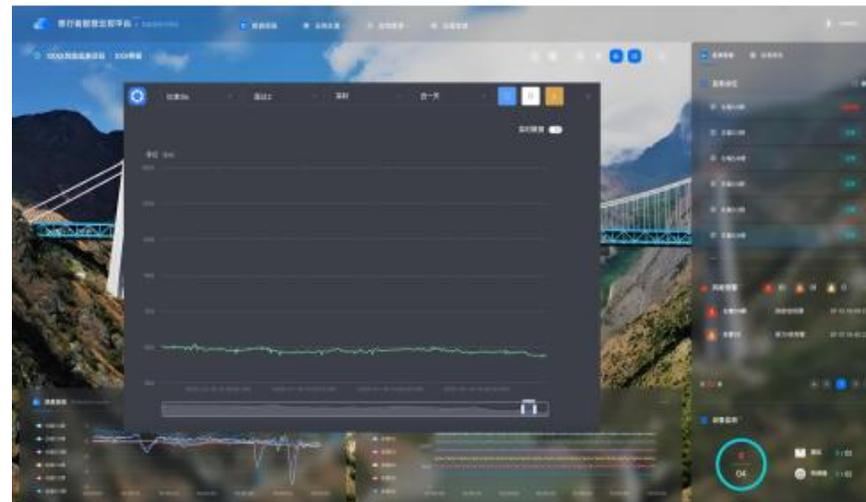


Arched Bridge Installation Guide

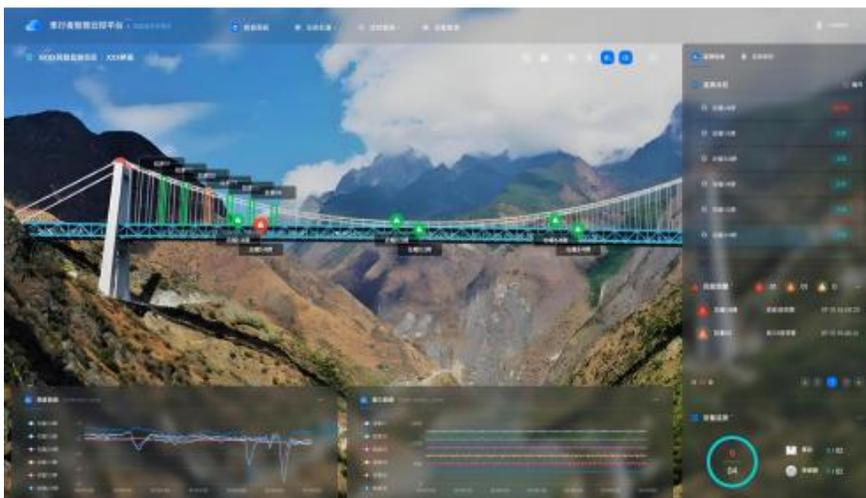
Solution—Bridge Health Monitoring System-Functions



Deflection Monitoring



Cable Force Monitoring



Health Analysis



Risk Early Warning

Solution——Bridge Health Monitoring Case References



Solution——Slope Safety Monitoring System

The system can achieve all-weather continuous monitoring of large-scale multi-level slopes through innovative micro deformation monitoring technology. Its monitoring accuracy can reach sub-millimeter level, and it can obtain real-time and comprehensive data of slope micro deformation. Due to the use of non-contact safety monitoring method, there is no need to embed sensors on the slope, greatly reducing the difficulty and cost of construction. Radar has the characteristics of high spatial resolution and strong penetration, and is not affected by natural conditions such as light, dust, wind, rain, snow, fog, etc. It can still work stably in complex environments.

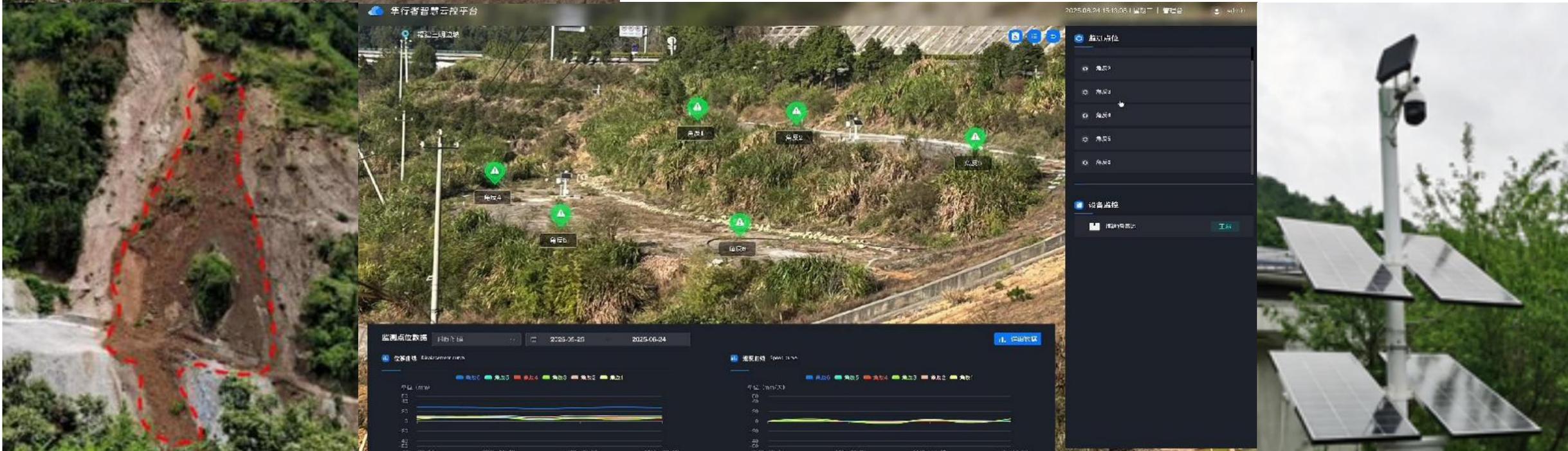


Solution——Slope Safety Monitoring System

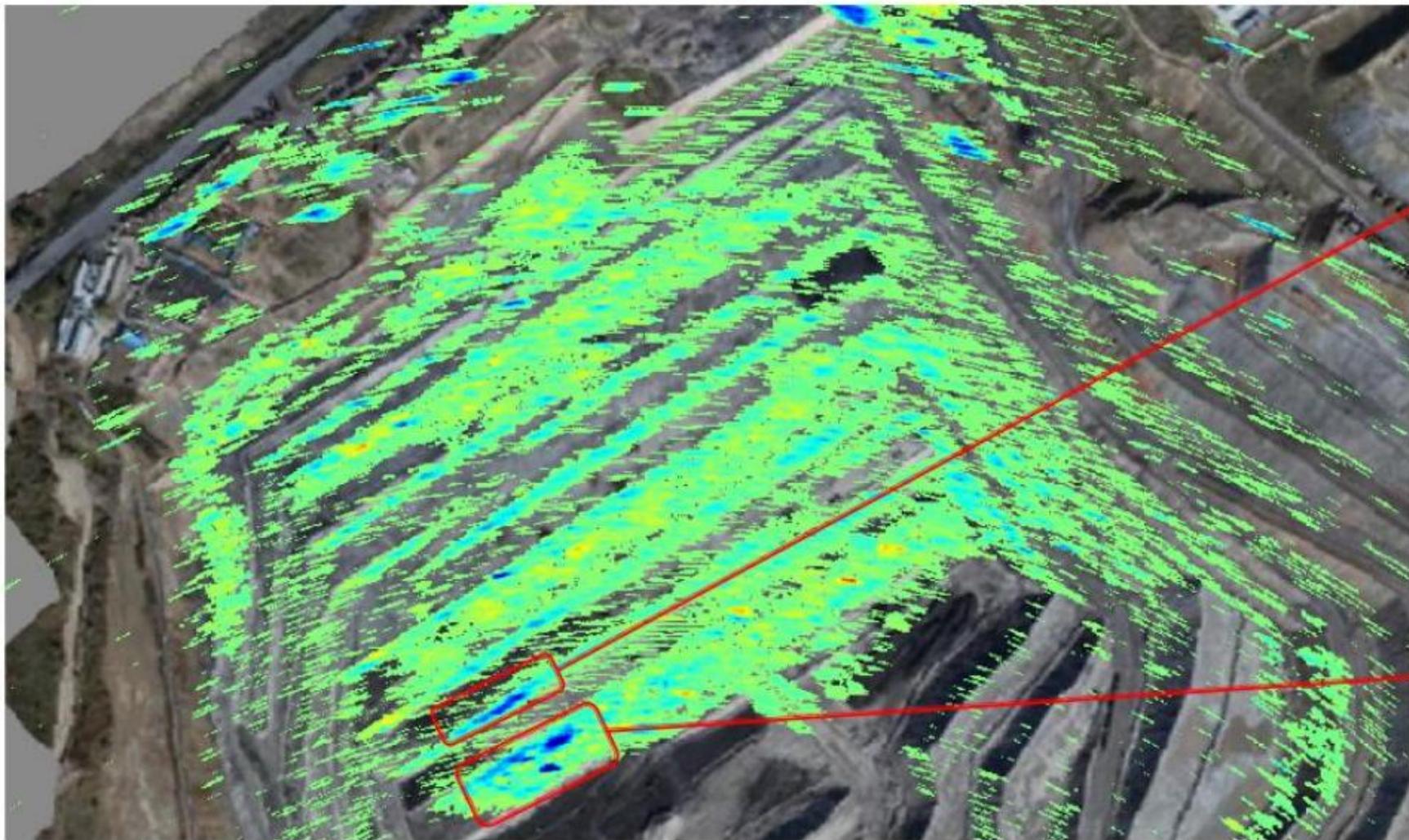


Install the radar facing up to the detection surface, where there are reflectors installed to enhance the radio waves echo signal.

This is how the the software UI interface shows the monitoring points, where reflectors are installed.



Solution——Slope Safety Monitoring System-4D SAR IMAGING



Stacking Surface



Mining Surface

Solution——Slope Safety Monitoring Case References



2

PRODUCTS

Product—Bridge Movement Tracking Radar



BHM100-MT



BHM500-MT&BHM100-CM

Introduction

The bridge health monitoring system relies on the core technology of millimeter wave radar and combines multi-source data fusion capabilities to construct a complete system architecture covering data acquisition, transmission, processing, analysis, and application. By monitoring with sub millimeter level precision, accurate capture of parameters such as bridge displacement and vibration can be achieved around the clock. With the help of big data and artificial intelligence algorithms, anomalies can be automatically identified and timely warnings can be issued. **100m & 500m movement tracking and 100m cable force tracking** are our major implementation.

Senarios



Product—Slope Movement Tracking Radar



SSM500-500M
SSM1000-1000M

Introduction

The long-range slope monitoring radar adopts the MIMO system and is based on differential interferometry technology. It measures the deformation of the radial distance between multiple target corner reflectors (or the structure's own reflectors) deployed on the structure under test and the radar, and then calculates the minute displacement of the slope surface by combining the measurement with geometric calculations.

Senarios



Product——Slope Movement Tracking Radar-4D SAR

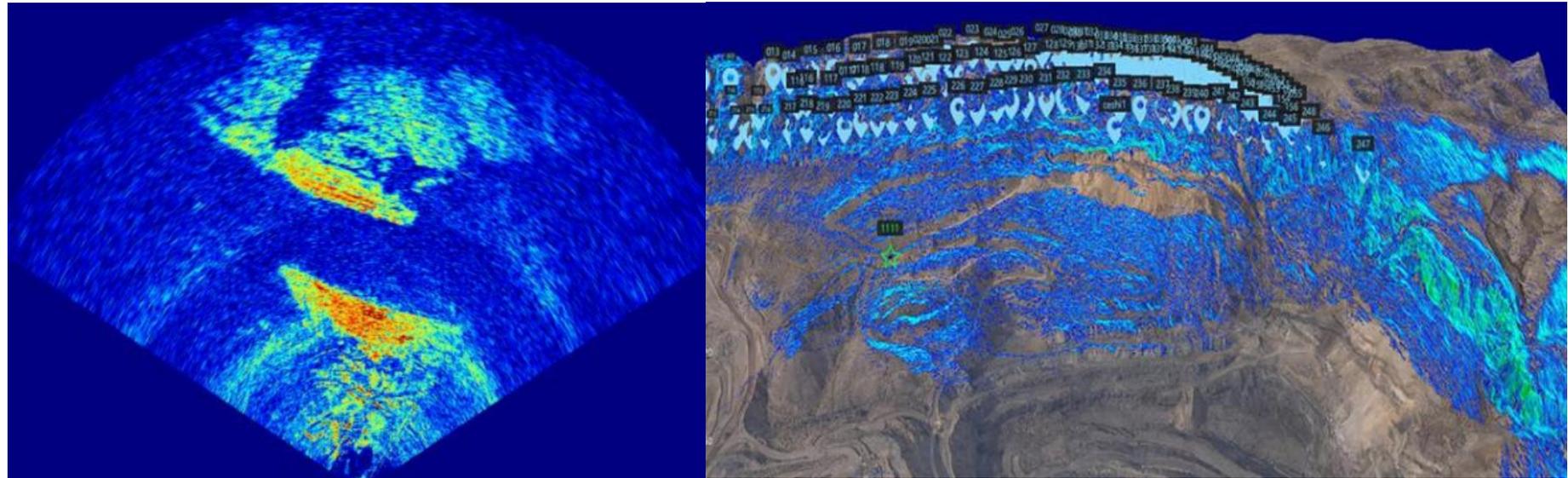


SSM1200-1200M

Introduction

The ultra-long-range imaging slope monitoring radar employs multi-channel MIMO imaging technology and differential interferometry to achieve wide-area coverage, high-resolution imaging, and sub-millimeter deformation measurement accuracy. This product meets the deformation monitoring needs of large areas such as highway slopes, natural slopes, and open-pit coal mine slopes, enabling non-contact, point-line-surface combined continuous micro-deformation monitoring.

Senarios



Product—Onsite Safety Monitoring Software Platform



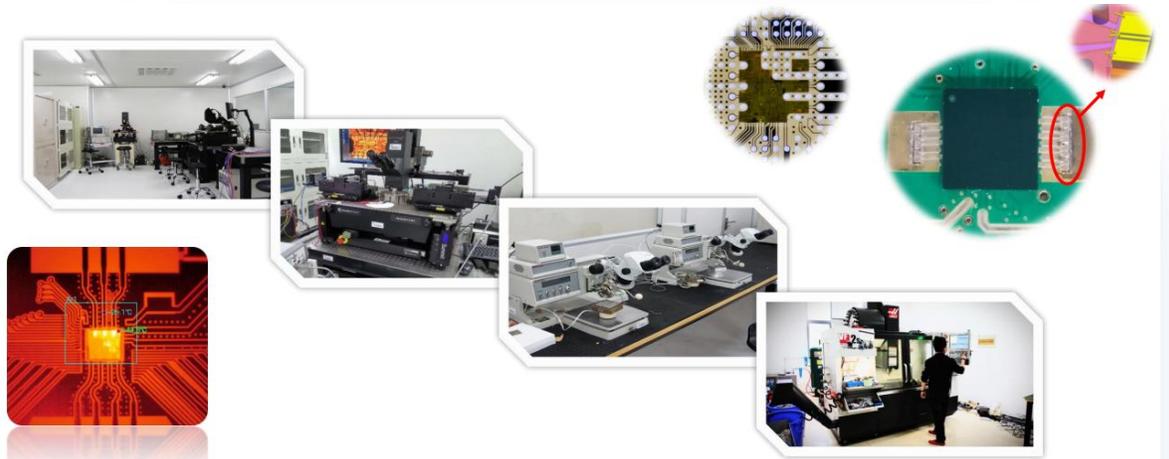
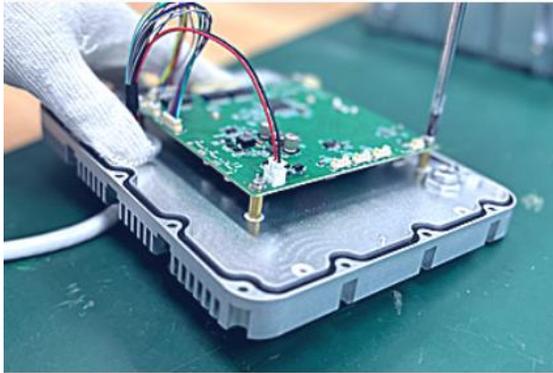
3

COMPANY

Company--Yteq Sense Technology

Smart Radar Sense for Traffic Safety

R&D--Manufacturing--Integration--Solution Providing



Founded by a group of senior radar experts, Yteq Sense Technology is a hi-tech enterprise specializing in radar sensing development for many different applications & scenarios. Yteq Sense has got a professional team in R&D development, including radar antenna design, hardware design, AI & algorithm development and software integration. Yteq Sense will continue to grow and bring better products and solutions to the market.

Our Honor

Hi-Tech Enterprise



Copyrights



Invention Patent



Prize



System Certificate



R&D • Invention • Cost-Down



IP Patent
7



Certificate
10+



Copyright
20+

Our Honor

