

Beidou Intelligent Surveillance for landslide and settlement



ABOUT BEIDOU INTELLIGENT SURVEILLANCE

The intelligent surveillance is based on an integration of Beidou's big data, cloud storage, cloud computing services and GNSS high-accuracy positioning ($\pm 2\text{mm}$ for x y axis, $\pm 5\text{mm}$ for z axis) terminal including variety of sensors.

Terminal that was installed at hidden point will deliver data collected from sensors to cloud storage and cloud computing services will analyze the information. Users can check the analysis of data with their pc or mobile device easily.

It can be used for 2 major functions. To minimize damage from natural disaster with earlier alert and to perform as a safety measure for construction work. It can be used for surface deformation monitoring, environmental factor monitoring, deep deformation monitoring and support structure monitoring. For example, it will **provide early warning signal for landslide** and it can be used **to track the level of sedimentation** before, during and after construction work.



HIGH PRECISION IN GNSS POSITIONING

Real time dynamic accuracy
($\pm 2\text{mm}$ for x y axis, $\pm 5\text{mm}$ for z axis)

BEIDOU'S BIG DATA

Multi sensors are included in the terminal, information are gathered in cloud storage, users can get access to the full picture easily for centralize management

$\pm 2\text{mm}$

GNSS positioning for x y axis

$\pm 5\text{mm}$

GNSS positioning for z axis

REDUCTION IN COST AND PROJECT LEAD TIME

To replace labor and to avoid man-made mistake

EASY ACCESS TO DATA WITH PC/ MOBILE DEVICE

Users can get access to the platform for tracking purposes easily with their computer and mobile device

CASE STUDY

1. Professional monitoring and service for hidden dangers of geological disasters in Jiudupa landslide in Jiuzi Village, Muka Township, Jiuzhaigou
2. Professional monitoring and service for hidden danger points of geological disasters of Chunchangba landslide in Chunchang Village, Meixing Town, Xiaojin County
3. Professional monitoring and service for hidden danger points of geological disasters on the landslide of Chenjiabao Baokan, Shuiping Village, Xinqiao Township, Xiaojin County
4. Professional monitoring and service of hidden danger points of geological disasters in Huangcaopo landslide in Silong Village, Zhuanglong Township, Xiaojin County
5. Professional monitoring and service of hidden danger points of Huangjiashan landslide geological hazard in Huangjishan Village, Wuri Township, Xiaojin County
6. Unstable slopes in Houshan, Ganzi Prefecture Forestry Bureau, Baitu Village, Furnace Town, Dege County
7. Slope monitoring of Baoyuan Town Welfare Institute in Guangyuan City
8. Professional monitoring and service for hidden dangers of geological disasters in Houshan landslide of the old county committee of Malkang Town, Maerkang County
9. Professional monitoring and service of hidden danger points of landslide geological hazards opposite the Malkan Township Detention Center in Maerkang County
10. Professional Monitoring and Service for Hidden Danger Points of Houshan Landslide in the County Town of Jiaoke Town,

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