



RockSpot provides 24/7 monitoring and collects information on rockfalls, avalanches and debris flow.

IDS GeoRadar: Innovative Interferometric Radar for Mining, Environmental and Civil Engineering Applications

www.idsgeoradar.com

LOCATING, TRACKING AND NOTIFYING ON ROCKFALLS

RockSpot is an innovative radar system able to locate, track and notify on **rockfalls**. It's the industry's first end-to-end solution able to **trigger notifications** on **rockfalls** and **create a full rockfall database** to maximize rockfall hazard management. RockSpot never sleeps providing **continuous monitoring** night and day filling the gap in critical monitoring in mining.

EVENTS DATABASE FOR IMPROVED RISK MITIGATION AND PLANNING

RockSpot acts as a 24/7 rockfall reporter. Rockfalls are tracked, stored and automatically classified (rockfall/ other) in an **events database** to perform data analysis with **multiple statistical tools**: exploring custom defined areas and single falling events in detail.

RockSpot supports an efficient rockfall risk zonation, TARP fine tuning and back analysis to **reduce operational and geotechnical risks**.

REAL-TIME NOTIFICATIONS FOR IN SYNC RISK MANAGEMENT

This compact and powerful radar picks up falling rocks in near to **real time** and working crews receive prompt **notification** for action along with immediate access to all event's details.

With an external long-running energy solution, users can depend on **24/7 monitoring** coverage for safety.

INTEGRATED MONITORING SOLUTION WITH GEOCLOUD

All RockSpot systems are controlled by GeoCloud, available both **on cloud** and **on-premises**. GeoCloud provides an easy and immediate access to all important data relative to the events georeferenced and overlaid on the site map. Users can explore RockSpot's collected data with this **web-based** application platform, optimised for both mobile device and desktop usage.

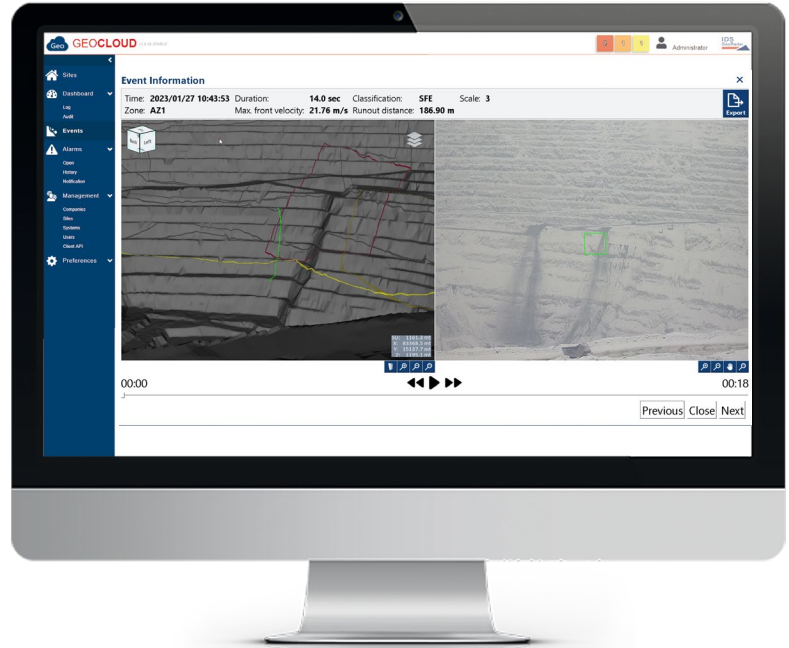
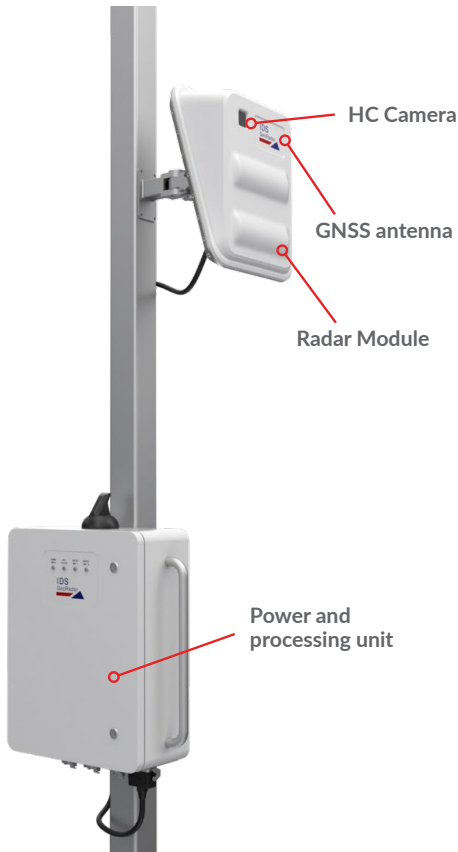
Multiple statistical tools consent to manipulate the events database and plot custom-charts based on user defined areas (event rate, duration/area extension, velocity, run out distance) for a **comprehensive back analysis, models calibration, integrity of rockfall controls** and **design change justification**.

AN ADDITIONAL ON FIELD VIEW

To complete the information coming from on-site, an integrated **live streaming camera** provides continuous imagery of the monitored area.




GeoCloud software platform featuring multiple statistical tools to explore the falling events database.





FEATURES

- Operating temperature range: -40° to +55° C
- Consumption: 90W (survey unit + control unit)
- Coverage field of view: 40° Vertical 80° Horizontal
- Operating range: 130m to 2000m
- Rockfall speed detection: < 1m/s
- Notification messages available: email and SMS


BENEFITS


 **24/7 monitoring and tracking of rockfalls**
Real-time notifications upon rockfall events and creation of a complete events database

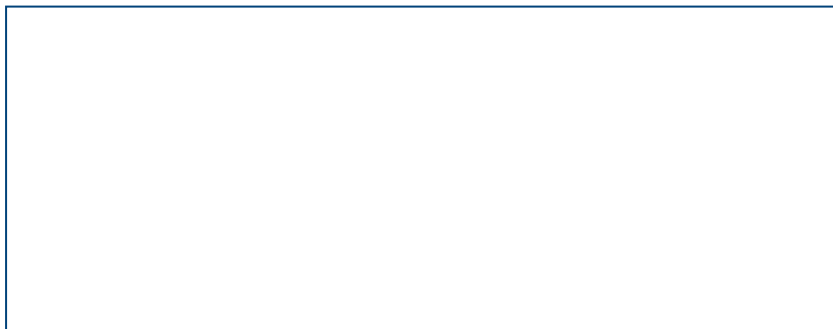
 **Powerful software to get more out of data**
Availability of multiple statistical tools to analyse the collected data.

 **Long range and high precision for full coverage**
A single radar unit can cover an entire wall with high resolution.

 **Operates in all weather conditions**
RockSpot's durable design enables it to operate in the harshest environments.

 **Georeferencing & real-time streaming**
Georeferenced data and a built-in camera providing streaming video of the monitored area.

 **Low maintenance**
Its compact and clean design with no moving parts, significantly lowers overall maintenance costs.



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