



Locating, tracking and notifying on rockfalls 24/7

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

www.idsgeoradar.com

THE FUTURE OF MINE SAFETY STARTS HERE.

RockSpot is an innovative radar system able to locate, track and alert on rockfalls in real time. This small yet powerful radar picks up tiny falling rocks at great distances long before the human eye of a spotter can see them.

RockSpot is the industry's first end-to-end solution able to trigger notifications on rockfalls, filling the gap in critical monitoring in mining.

REAL-TIME NOTIFICATIONS

RockSpot never sleeps and provides continuous monitoring **night and day**. Each single rockfall event is detected in real time and immediate notifications issued to geotechs and working crews. All rockfall statistics are recorded in a database, making it possible to analyse each event and to create a proper rockfall risk zonation map.

The use of such advanced system brings mine safety to the next level. A true real-time rockfall hazard mitigation strategy is now possible with high confidence and reliability.

ROCKFALL STATISTICS

All information on each individual event is displayed and recorded in real-time and stored in a robust database within the mine network. The radar can detect and record all important data, such as:

- line of sight velocity
- travel path
- runout distance
- surface size of rockfall
- time of detachment
- source
- deposit area

Relevant information collected for the measured rockfall event can be visualised to create comprehensive and empirical hazard zonation models. Statistical data support the proper design of catch benches and exclusion zones, increasing safety and cost-effective solutions.

INTEGRATED MONITORING SOLUTION

GeoCloud platform is the web-based application, that can be hosted in the mine network, giving immediate access to all important data on rockfall events. All rockfalls are georeferenced and overlaid on a site map while an integrated livestreaming camera provides continuous imagery of the monitored area. A complete radar map is available along with all the relevant statistics.

BENEFITS



Safety

Effective rockfall hazard mitigation strategies to protect mine workers and assets.



Automatic georeferencing

Embedded GNSS ensures the automatic georeferencing of tracked rockfalls.



Camera Recording

Built-in camera that provides streaming video of the monitored area, visible for all connected users.



Operates in all weather conditions

Immune to snow and dust, RockSpot's durable design enables it to operate in the harshest environments.



Low maintenance costs

No moving parts with a clean design, significantly lowering maintenance costs.



Powerful software both on cloud and on-premises

All RockSpot systems are controlled by GeoCloud with the possibility to create multiple users with different levels of access.



Coverage + Resolution

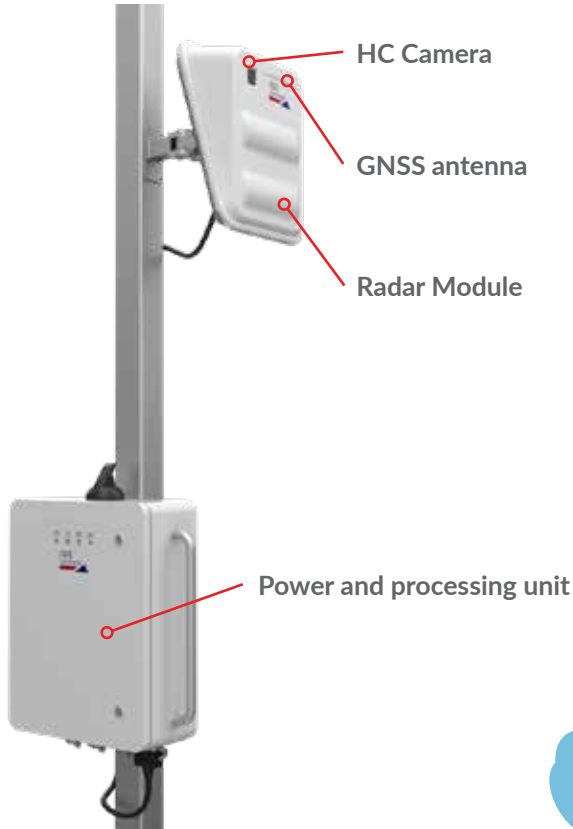
A single radar unit can cover a field of 40° vertical and 80° horizontal with high resolution, the coverage can double with another sensor within the same configuration.



Always available

RockSpot never sleeps and monitors night and day. With an external long-running energy solution, users can depend on 24/7 coverage.

MODULAR COMPOSITION



FEATURES

- Operating temperature range: -40° to +55° C
- Consumption: 90W (survey unit + control unit)
- Coverage field of view: 40° Vertical 80° Horizontal
- Ability to double the coverage with another radar within the same configuration (only one control unit needed)

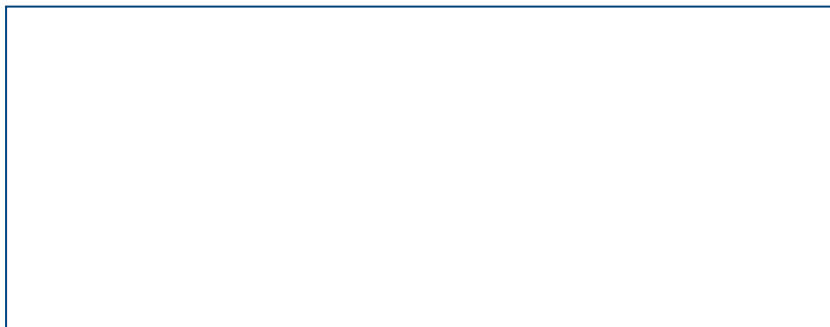




IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost-efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety.

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at hexagon.com and follow us [@HexagonAB](https://twitter.com/HexagonAB).



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