

# MSR



## Movement and Surveying Radar

Engineered with modularity in mind

Reutech Mining's goal is to increase safety and productivity at mining operations. So we design highly complex radar technology that simply does what you need it to do, all of the time. The result is a slope stability monitoring radar that's got what it takes to get you there. That's the power of safety and productivity through accuracy and reliability.

Effective slope stability monitoring on any scale

The MSR is the world's most advanced slope monitoring radar for assessing the stability of mine walls, tailings dams and natural hazards. With the unique ability to extract multiple data points from a single antenna beam footprint, the MSR delivers a high resolution 3-Dimensional point cloud without relying on external mechanisms. This means you get the most accurate slope stability insights all of the time.

Capable of covering broad areas quickly, the MSR is the ultimate tool for performing strategic and critical monitoring on any scale and under any conditions.

[www.reutechmining.com](http://www.reutechmining.com)

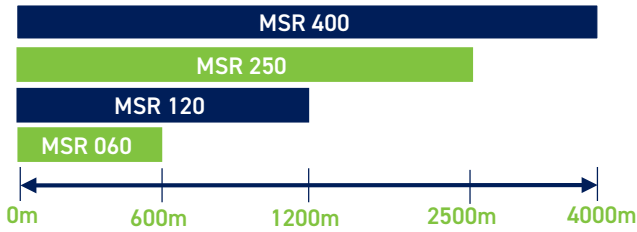
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# Versatility

The MSR's modular and upgradeable building blocks are intended to evolve with your operational and budgetary requirements. The Radar Module is the core of the solution and can be supplied with a variety of power and mounting options.

## OPERATING RANGE



## DEPLOYMENT

Patented non level deployment to within 15° on standard or multiple trailers, vehicle or fixed installation.

## AUTO GEO-REFERENCING

Integrated GPS with full GNSS capability now allows for quick and easy geo-referencing of the radar into the local mine coordinate system by the push of a button.

This is an additional licensed add-on application.

## POWER

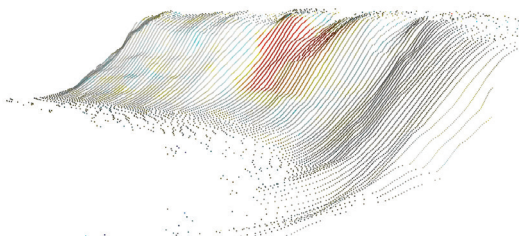
External electricity, battery, generator and/or solar power supply.



# True 3-dimensional data

With the highest 3-Dimensional data point spacing accuracy on the market, the MSR offers unrivalled quality and detail of movement. A self generated point cloud provides data in range, azimuth and elevation without relying on external mechanisms. This means the MSR can also be used for the ad-hoc monitoring or surveying of waste dumps and tailings dams.

## OPERATING RANGE: Sub-millimeter



## DATA POINT SPACING

Operating Range	Range (m)	Azimuth (m)	Elevation (m)
500m	0.5	2.2	0.22
1 000m	0.5	4.4	0.44
2 000m	0.5	8.8	0.88
4 000m	0.5	17.6	1.76

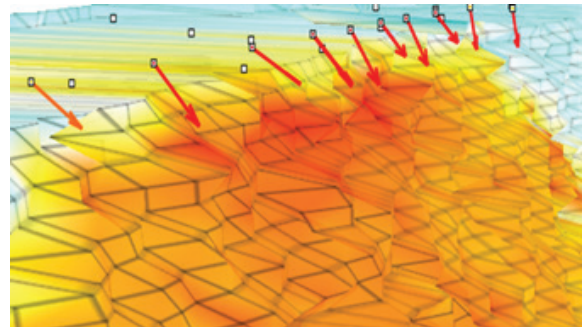


# Integrated dynamic decision making

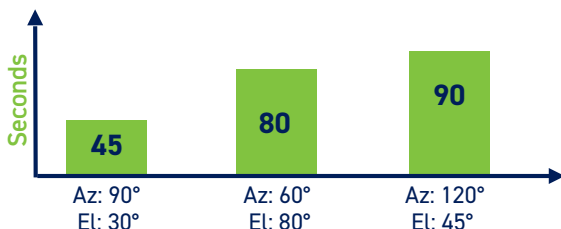
The MSR covers broad areas in only a few minutes, making it the fastest scanning radar system in terms of coverage and range. Radar data along with movement vectors from prisms and extensometers can be displayed on the same interface. The result is rapidly identifying changing slope conditions and making better informed decisions. From anywhere in the world. In real time.

## SENSOR INTEGRATION

Leica GeoMos, Trimble 4D, QuickSlope and SlideMinder.



## SCAN TIME



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