

MSR 060V



All weather, day and night...

SAFETY & PRODUCTIVITY
THROUGH
ACCURACY & RELIABILITY

The MSR 060 V is the latest addition to the globally acclaimed Movement and Surveying Radar range of products. Like the rest of the MSR family, this system is capable of resolving a 15 meter bench failure at its maximum operating distance. The MSR 060 V offers the distinctive high resolution and fully integrated slope monitoring capabilities MSR clients have grown accustomed to, with the added benefit of being mounted on a vehicle. This allows for rapid deployment in critical areas where urgent monitoring is required.

All other MSR functionalities, including overall integrated geotechnical alarms and Rapid Align™ are available to the user. Regular Standard Operating Procedures are applicable and no additional warning devices are required.

GENERAL FEATURES

- Operates reliably in harsh mining environments.
- Provides highly accurate, real-time, all weather surveying and slope movement measurements using state-of-the-art radar and surveying technology.
- Measurements are fully geo-referenced to an accuracy that allow for seamless integration with standard Digital Terrain Mapping (DTM) tools.
- The simultaneous execution of stability and surveying measurements, combined with the high-speed external data links for remote operation as well as the unequalled reliability, make the MSR range of products an essential real-time mining safety, planning and productivity improvement tool.

SPECIFICATIONS

- Operating range: 600m
- Integrated Leica Geosystems™ total station
- Full remote operation (24/7)
- High-speed wireless communication
- Lockable with tamper indication alarms
- Comprehensive Built-In-Test (BIT) functionality (remote monitoring of all system parameters)
- Simultaneous stability and surveying measurements
- Integration of DTM
- Integrated weather station and advanced algorithms reject the effects of atmospheric variations
- Rapid deployment
- Low maintenance
- Highest proven operational availability and reliability on the market

ENVIRONMENTAL CONDITIONS

- Operating temperature: -30°C to +55°C
- Capable of operating in extreme dust
- Wind: < 100 km/h
- Rain: < 60 mm/h
- Maximum driving speed 80km/h (antenna fitted)

SLOPE STABILITY FEATURES

- Real time detection of sub-millimetric slope movements
- Geographically referenced
- Advanced user-defined alarm generation software to cater for all types of mining operations
- Selectable scan speeds
- User configurable high threat areas and exclusion zones
- Recording and playback functionality

SURVEYING FEATURES

- Surveying distance measurement < 100mm (absolute range)
- Geographically referenced surveying information
- Complex algorithms to resolve absolute frame of reference
- Advanced synthetic map generation
- Functionality to capture position of object identified, for example:
 - Geological structures
 - Types of material
- Survey data can be imported into standard surveying products

