



SSR-XT: TARGETED  
MONITORING SOLUTION

RADAR TYPE	3D - Real Aperture Radar (3D-RAR)
SAFETY CRITICAL	
MONITORING AREA	
RANGE	
SPECIFICATIONS	Range: 3500 metres Scan Area (Coverage): 30° x 15° (2 minutes) SSR-Viewer Features: Front View and Point-and-Click Temperature Ranges: -40°C to +60°C

TARGETED MONITORING

- Tactical approach, critical for monitoring existing slope movements posing a potential or immediate threat to the safety or productivity of mining operations
- With critical monitoring and alarming systems, the SSR-XT is ideal for short term monitoring however, it is also suitable for long term monitoring through its twelve month wall folder capabilities
- Radar locations are flexible with high mobility

3D REAL APERTURE RADAR

- Uses a fine pencil beam to provide full 3D imaging



SSR-FX: BROAD AREA  
MONITORING SOLUTION

RADAR TYPE	2D - Real Aperture Radar (2D-RAR)
SAFETY CRITICAL	
MONITORING AREA	
RANGE	
SPECIFICATIONS	Range: 2800 metres Scan Area (Coverage): 180° x 60° (2 minutes) SSR-Viewer Features: Plan View Temperature Ranges: -40°C to +60°C

BROAD AREA MONITORING

- Strategic approach, helpful to detect “hot spots” of movement activity even in areas that are not critical to current mine operations over longer periods of time (campaign monitoring)
- Provides an extensive background monitoring solution ensuring geotechnical peace of mind
- Radars are mobile, with pit geometry a factor to consider when determining radar location

2D REAL APERTURE RADAR

- Creates a thin vertical stripe on the wall which can be swept around the pit to cover 180 degrees of a pit in less than two minutes, ideal for detecting new and unknown risks and hazards



SSR-SARx: LONG RANGE  
MONITORING SOLUTION

RADAR TYPE	2D - Synthetic Aperture Radar (SAR)
SAFETY CRITICAL	
MONITORING AREA	
RANGE	
SPECIFICATIONS	Range: 4500 metres Scan Area (Coverage): 60° x 60° (2 minutes) SSR-Viewer Features: Plan View Temperature Ranges: -40°C to +60°C

LONG RANGE MONITORING

- Required in large mines where other radar technologies simply cannot effectively image walls at a distance out to 4.5km
- Ideal for monitoring small movements that occur over many months, which may not otherwise be detected by short-term monitoring solutions
- Radars are permanent after set up, with pit geometry a factor to consider when determining radar location

2D SYNTHETIC APERTURE RADAR

- Generates narrow vertical beams coupled with longer integration time allowing for monitoring of areas at longer ranges
- Synthetically generated data allows for data to be processed over many years to detect small long term changes