



SSR-FX

BROAD AREA SLOPE STABILITY RADAR

GroundProbe is proud to introduce the SSR-FX; a revolutionary broad area slope stability radar.

ADVANCED TECHNOLOGY WITH A PROVEN TRACK RECORD

SSR-FX is a radar technology never-before-seen in the mining industry. It is a Real Aperture Radar that generates fine azimuth angles and small range pixels, much like an SAR but with wider coverage and real aperture radar measurements you can trust.

PERFORMANCE

SSR-FX scans 180 degrees of your mine every two minutes with more pixels per scan than any other radar, giving unrivalled coverage of your mine. The low profile antenna allows for high wind operations, and the reduced number of moving parts offers the highest reliability standards.

COST SAVINGS AND RELIABILITY

Building on our 15 years of slope stability monitoring experience, the SSR-FX is the benchmark in reliability and performance, also offering the lowest cost per m² monitoring coverage. This drives savings directly to your budget through higher uptime, lower support contracts and parts holdings, common training and technicians, and shared computers and WiFi links.



MAKING MINING SAFER

SOFTWARE AND DATA ANALYSIS

SSR-Viewer 8 software is used on all of our radars. SSR-FX data analysis is based on our patent pending intuitive plan view, enabling you to view your entire pit at a glance, to instantly detect, and locate any hazards.

The software combines front view photos, and real-time radar data, draped over any plan view document, including weekly mine plans, aerial photos, structural and hazard maps, toes and crests, and rendered surfaces. This flexibility ensures a better understanding of the data.





TWO MONITORING STRATEGIES

There are two main monitoring strategies; targeted monitoring systems focus on known hazards, while broad area monitoring scans wider areas, detecting new risks and trends. With the SSR-FX release, GroundProbe is proud to be the only vendor to offer systems for both monitoring strategies.



SSR-FX SPECIFICATIONS

 OPERATIONAL SPECIFICATIONS:		 ENVIRONMENTAL:
Angle of view: Azimuth: 180° Elevation: 60° Communications: Integrated wireless link or connect to mine network Operating range: SSR-FX: 2.8 km Power supply: Inbuilt 12 Volt DC generator/ batteries or connect to mine power (100-250 Volts AC at 50-60 Hz)	Scan time: Two minutes Data latency: Scan time only Primary monitoring location: At radar, in office or remote site Atmospheric correction time: Instantaneous (no set-up delay)	Altitude: 0 to 5,000 m Humidity: 5% to 99% Rainfall: 0 to 100 mm/hr Temperature: Standard kit: -25°C to +60°C Extreme kit: -40°C to +60°C Wind speed: SSR-FX: 100 km/hr