

GEORADAR DIVISION

IBIS-FMT

ENHANCED MOBILITY FOR THE UNRIVALLED SLOPE MONITORING RADAR

Raises the bar in deployment flexibility:

From rapid set-up in critical areas to permanent installations



IDS: Innovative Interferometric Radar for Environmental and Civil Engineering Applications

www.georadar.idscorporation.com

IDS
INGEGNERIA DEI SISTEMI

APPLICATIONS

The IBIS-FMT system is the latest addition to the IDS family of slope monitoring radar designed to improve safety and maximize productivity within open pit mines.

As with the other IBIS-FM configurations, IBIS-FMT provides highly accurate, real-time and all-weather measurement of mine wall movements and reliable early warning for impending failures, but with the added value of being fully integrated on a trailer.

The system is ideal for:

- Rapid installations when urgent active monitoring is required over production-critical areas
- Active and background monitoring of overall pit wall stability through permanent deployments



BENEFITS

IBIS-FMT provides all the unparalleled functions and benefits of the IBIS-FM family which are proven by the continuously growing number of international mining companies adopting IDS radar as their preferred choice:

- Capability of detecting the entire range of slope instability, from sub-bench failures to large collapses, thanks to the unequalled spatial resolution and accuracy
- 'Set and forget' system: unsurpassed operating distance allows for temporary or permanent deployment out of operational and blasting zones
- High in-service availability and low maintenance costs thanks to the few moving parts (dish-less antennas) and limited power consumption (solar-powered with diesel back-up)

In addition to those advantages, IBIS-FMT offers the following extra benefits:

- Mobile system which is easily towable by light vehicles
- Quick and easy set-up (15 minutes): one man installation
- Self-contained and fully integrated system for quick deployment
- Fixed or mobile installation capability
- Ideal for multiple pit and open cast long-wall operations
- Rugged design for high robustness and long durability

FEATURES

- Real time monitoring up to long ranges (4 km) of sub-millimetric slope displacements with automatic atmospheric corrections
- Alarm generation with user-defined levels and multiple alarm/multiple area criteria
- Fully geo-referenced outputs projected visually in radar view or in high quality DTM, exportable to 3D mine planning packages
- Fast scan time (minutes for a full resolution scan at long range) and robust automatic atmospheric corrections
- Fully remote operations through a wire-less radio link or UMTS modem
- Ability to process discontinuous datasets after system re-positioning
- Transport trailer compliant with national road regulations

