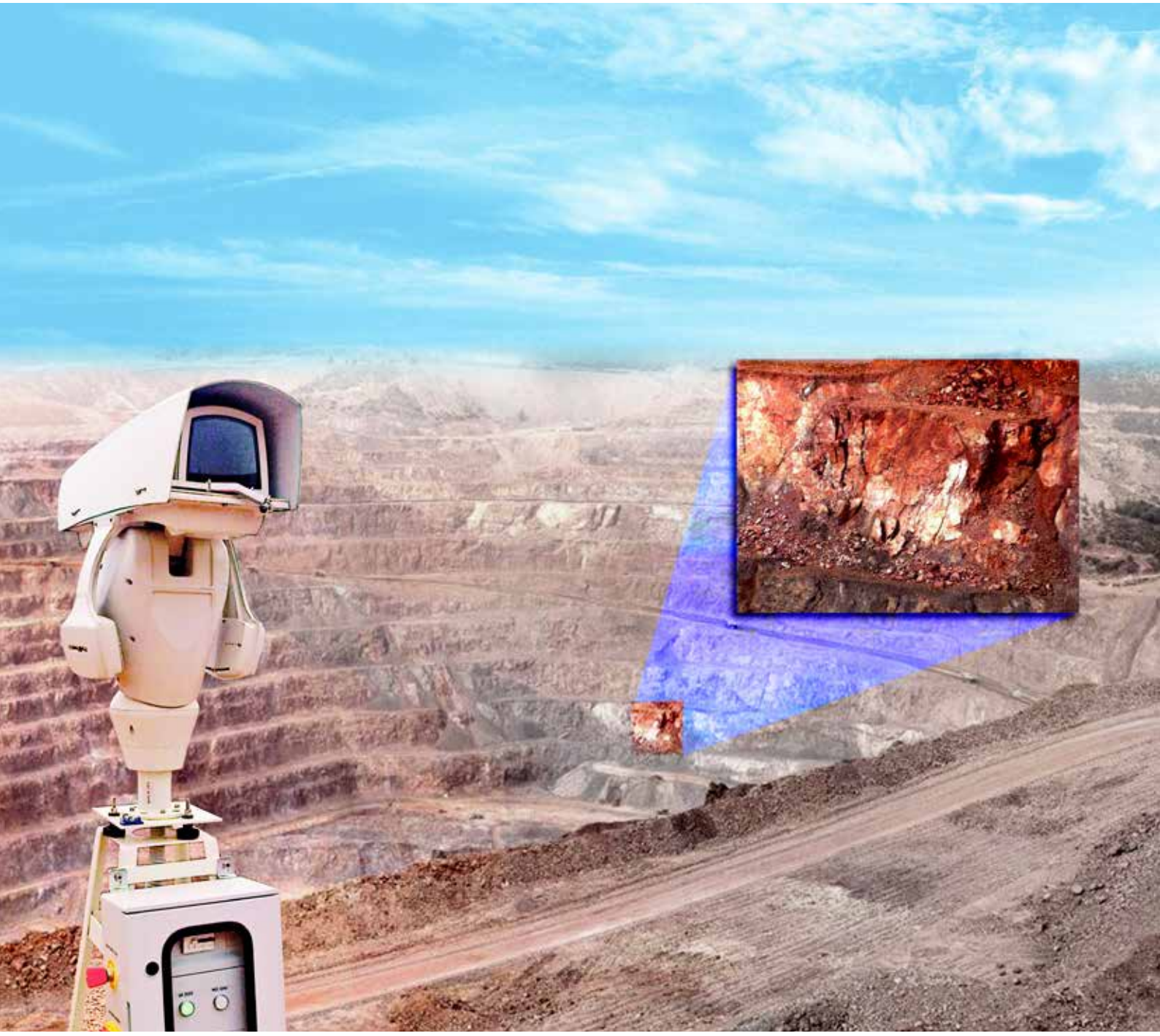
IDS GeoRadar

Eagle-Vision

A magnifying glass on mine slope instability



High resolution panoramic coverage of the entire pit

PART OF HEXAGON

IDS GeoRadar: Innovative Interferometric Radar for Mining, Environmental and Civil Engineering Applications

www.idsgeoradar.com

Eagle-Vision

The Eagle-Vision camera is a unique solution on the mining market featuring high image resolution, panoramic coverage and photo-geocoding capabilities all in a single integrated system. The Eagle-Vision camera is able to capture panoramic photos of the entire pit while keeping a bench-scale resolution at a range of thousands of meters from the slope, providing effective visual information on mine wall stability in support of geotechnical investigations.

EAGLE-VISION BENEFITS

- **Designed specifically for mining applications:** The Eagle-Vision camera has been developed to guarantee top-end performance, reliability and durability in the harshest mining environments.
- **High performance:** The Eagle-Vision camera system delivers superior bench-scale image details combined with broad coverage for capturing the entire panorama of the pit walls. The camera features a high-resolution image sensor for the ultimate combination of image performance and clarity.
- **Software integration:** The Eagle-Vision camera is fully integrated into the IBIS slope monitoring radar analysis software for easy and immediate user interaction. Panoramic photos can be navigated and zoomed, and visual information can be directly linked to the Digital Terrain Model of the pit to support the analysis of radar data.
- **Live streaming:** The Eagle-Vision camera offers a live streaming mode to keep a close eye on specific sectors of the wall when a critical situation requires a real-time view of the slope.

EAGLE-VISION FEATURES

- Rugged hardware for the mining environment
- High resolution images with a bench-scale resolution
- Panoramic view with a sub-bench zoom resolution
- Custom scheduling of panoramic photos
- Live streaming of critical areas of interest
- Full integration with IBIS Guardian software
- Photo-geocoding on DTM

SYSTEM SPECIFICATIONS	
ABSOLUTE POSITIONING	Accuracy >1°, Pan/tilt speed up to 20°/s
POWER SUPPLY	230 VAC or 24 VDC
ENVIRONMENTAL	IP66 [-20°C; +50°C], max wind 150 km/h (integrated wiper and heater)
DIMENSION AND WEIGHT	65 x 65 x 40 cm – 25 kg
RESOLUTION	16 MP (35 mm CCD)
FRAME RATE	7 fps (16 MP)
GENERAL FEATURES	Automatic image adjustment, wide dynamic range (65 dB) and light sensitivity (0.01 lux)
CONNECTIVITY	RS485 – Ethernet (for IP Camera)
OPTICS	Top quality L-Series Canon lens, 70-200 mm

SOFTWARE SPECIFICATIONS	
IBIS CONTROLLER CAMERA MODULE	• Camera control (pan/tilt) • Creation of multiple views and panoramas • Custom scheduling of panoramic photos • Live streaming • Auto-diagnostic feature
IBIS GUARDIAN CAMERA MODULE	• Automatic photo-stitching • Multi-resolution image navigation engine • Photo-geocoding on mine DTM • Zoom-in on areas of interest

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