

# Extreme in Action: MIC1 Helps Australian Mine Move the Earth



**BOSCH**  
Invented for life



**“The MIC1 cameras provide a critical monitoring capability for the mining operation. Using MIC1, Videotronics designed a system that allowed the mining company remote access to live video over the Internet. Safety, processes and equipment could all be monitored from virtually anywhere.”**

Aaron Pirie, Sales & Applications Engineer, Videotronics

**Customer:** BHP Billiton Mitsubishi Alliance (BMA)

**Sector:** Industrial

**Product:** MIC1 Ruggedized PTZ Camera

## MIC1 Helps Australian Mine Move the Earth

BHP Billiton Mitsubishi Alliance (BMA), Australia’s largest coal miner and exporter, was losing AUS \$8,000 per hour in unrecoverable downtime, when cameras on its dragline excavators failed. In order to meet the requirement for constant video surveillance monitoring during dragline operation, MIC1 cameras from the Bosch Extreme CCTV series were selected to meet the challenge of this very difficult application. Today, the cameras provide mission-critical surveillance to ensure uncompromised safety of the crew and equipment. Thriving at the Goonyella Riverside mine, a location that ruined conventional pan-tilt-zoom cameras in a mere four weeks, the MIC1 cameras deliver absolute performance in this extreme environment.

## Problem: Challenging Conditions Take Out Conventional PTZ Cameras

- Rough motion, shudder and vibration of dragline excavator
- Onboard cameras physically destabilized
- Dry, dusty environment
- Fine coal dust breaches environmental seal of the cameras, despite claimed extreme environment performance and specifications
- Dust gathers inside the dome, badly degrading picture quality

## Solution: MIC1 - Brutally Tough Design for Brutally Tough Environments

- Stabilized, reinforced internal components resist shock, vibration and shuddering
- IP68 sealed to protect against water and dust ingress
- Small, flat wiper-equipped window prevents dust build-up
- Robust, brutally tough design ensures excellent stability

## Results: Reliable Performance Pays Dividends

- Eliminates costly and unrecoverable downtime of AUS \$8,000/hour
- Outperformed conventional cameras typically ruined in four weeks
- Relieved maintenance department of time-consuming repairs
- Helped ensure safety of work crew and equipment



**“The MIC1 cameras helped the maintenance department achieve its business goals. We were able to significantly reduce both our costs and the machine downtime.”**  
Ben Dennis, BMA Goonyella Riverside

### Bosch Security Systems, Inc.

130 Perinton Parkway  
Fairport, NY 14450  
800-289-0096  
[www.boschsecurity.us](http://www.boschsecurity.us)