

Moondance Helps Australian Mine Move the Earth

Moondance Delivers Mission-Critical Surveillance where No Other Camera Could Survive

BHP Billiton Mitsubishi Alliance (BMA), Australia's largest coal miner and exporter, was losing AUS \$8k per hour in unrecoverable downtime when cameras on its dragline excavators failed. Moondance cameras were selected to meet the challenge. Today, they provide mission-critical surveillance to ensure uncompromised safety of the crew and equipment. Thriving at the Goonyella Riverside mine, an location that ruined conventional pan-tilt-zoom cameras in a mere four weeks, the Moondance cameras deliver absolute performance in this decidedly extreme environment.

“The Moondance cameras provide a critical monitoring capability for the mining operation. Using Moondance, 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 (www.videotronics.com.au)

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 IP68 performance specifications
- Dust gathers inside the dome, badly degrading picture quality

Solution

Moondance: Brutally Tough Design for Brutally Tough Environments

- Stabilized, reinforced internal components resist shock, vibration and shuddering
- Environmentally 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

Moondance's Rugged, Reliable Performance Pays Big Dividends

- Eliminates costly and unrecoverable downtime of AUS \$8k / 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 Moondance cameras helped the maintenance department at BHP's Goonyella Riverside mine achieve its business goals. We were able to significantly reduce both our costs and the machine downtime.”

Ben Dennis
Electrical/Control Systems Engineer
BMA Goonyella Riverside



Thriving in an environment that ruined other cameras in four weeks, Moondance provides key imaging capability for a web-accessible system that monitors people, processes and equipment. The resulting capability helps ensure safety while eliminating downtime costing AUS \$8k / hour.



Related Documents

[Moondance brochure](#) | [Moondance tech sheet](#) | [Moondance vs. Firehose](#)

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Honor our Ingenuity.
U.S. Patent #6158879, UF Series
U.S. Patent #7016518, REG
U.S. Patent #6912007, EX36

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