



# Global Leader in Mining Communications



Complete personal and data communication solutions

ULF / VHF / UHF / Microwave

Analogue & Digital

for underground coal and hard rock mine communication  
and open pit surface operations.

For more information regarding our Hard Rock Mine communication solutions  
refer to the illustration overleaf



# Production & Safety – Communication Solutions for Hard Rock Mines

As well as PED, VoIP Phones or Radios allow two-way voice contact with other miners and the surface

- Tracking can locate and reallocate tasks to improve efficiencies
- VIP monitor engine performance in real time
- ImPact hot spot uploads of engine diagnostics
- Tracking can associate vehicle with driver
- Control access into ventilation zones
- Proximity detection around vehicles

ImPact Digital allows:

- VoIP Phones for two-way communication
- Tracking of personnel in an area
- Wireless download of data
- PLC programming
- IP videos



ICCL - a lightweight cap lamp that can include:

- RFID Tag
- PED Pager
- VHF or UHF Radio

- High bandwidth data
- Real-time vehicle diagnosis
- Real-time payload
- Tracking
- VoIP

- ICCL & PED ensure contact wherever miners are working
- Tracking to monitor what part of the mine they are in

- BlastPED Remote Blast Initiation
- Centralised blasting
- Highly safe & secure
- Reduce misfires



## ImPact Communications Appliance

- A single platform to manage all applications
- Web based tracking and monitoring
- System configuration and Network Management
- Can control tag boards, LED signs, VoIP communications and Text messaging



## Wireless Mesh for Open Pits

- Rajant BreadCrumbs
- High speed, high bandwidth
- Highest QoS available
- Negligible latency
- Negligible network loss when routing



## VDV Leaky Feeder Radio

- Two-Way Voice
- Telemetry
- Robust Line Amps



## Vehicle Intelligence Platform (VIP)

- Real time engine diagnostic downloads
- Real time payload data
- Data logging
- Proximity detection by detecting RFID Tags



## ImPact Digital Communications

- 802.11 Wi-Fi Network for underground
- Tracking via RFID Wi-Fi Tags
- VoIP telephones
- IP Video Camera
- Rajant BreadCrumbs
- Hotspot for VIP diagnostic downloads



## PED Emergency Communications

- The only through-the-earth mine comms system
- Mine wide paging
- Emergency warning
- Remote blast initiation
- Remote equipment switching



## Tracking

- Real time location of personnel and equipment
- Asset management
- Safety in knowing where people are
- Proximity detection around vehicles via VIP
- Resources allocation



# MINING COMMUNICATIONS SOLUTIONS

Mine Site Technologies Pty Limited (MST) is a global leader in mining communications. We have been operating for over 20 years and are a dynamic, growing organisation with an ongoing commitment to innovation, safety and productivity.

Communication solutions are core to our product range. We have established close working relationships with major mining companies around the world. Our technologies have been installed in over 350 mines in Australia, Africa, China, Europe, North America including Canada and the USA and South America.

Integrated Communications

**ICCL**  
Cap Lamp



A breakthrough in personal safety and productivity

**IMPACT**  
Digital Communications



The future of mining communications through the convergence of technologies

Saves Lives

**PED**  
Saves Costs



Reliable mine wide communication

**TRACKER**  
Tagging System



A tracking system for underground mines

INFINITY SERIES 2

**VDV**

Leaky Feeder Radio System



Quality underground line amplified Communication systems

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