

# IMPACT

## MP71 MinePhone for hard rock mining



Productivity and  
Safety through Mine-  
Spec digital  
applications

- > Push To Talk functionality with emergency override
- > Reliable, Full Duplex Voice Communications
- > Remote Speaker Microphone Support
- > Text Messaging
- > Trackable using MST Global's Software



# IMPACT

## MP71 MinePhone for hard rock mining

MST's MP71 series handsets for hard rock mining offer a simple and robust solution for Voice over Internet Protocol (VoIP) communications in mining environments. The handset allows users to make and receive VoIP phone calls from any area of the mine covered by the wireless network and includes mine specific functionality including Push To Talk (PTT), emergency alarms and a battery life designed to last an entire shift. The handset is IEEE 802.11b/g (Wi-Fi) compliant and uses Session Initiation Protocol (SIP) for both calls and text messaging. The units can be configured using the on-screen menu system or from a Central Server using TFTP, simplifying system deployment.

### SPECIFICATIONS

#### Handset Specifications

- > Wi-Fi 802.11b/g
- > Dimensions: 150mm x 75mm x 35mm
- > Battery: 1100mAh
- > Charge Life: exceeds 14 hours
- > Transmit Power: +17dBm
- > Screen: 240 x 320 Colour TFT
- > Weight: 250g

#### Voice Features

- > G.711 (A-Law &  $\mu$ -Law 64kbps)
- > G.729A (8kbps)
- > Acoustic echo cancellation
- > Jitter buffer control (default 80ms, max 320ms)

#### Mine Specific Features

- > 24 Push To Talk (PTT) channels
- > Man Down Emergency Override
- > External headset
- > Asset locator (when used in conjunction with MST tracking system)

#### Network Protocols

- > TCP/UDP/IP, IPV4, DNS ARP, Static IP DHCP
- > Real Time Transfer Protocol (RTP) RFC 1889/RTCP FC 1890
- > Session Description Protocol (SDP) RFC 2327
- > Session Announcement Protocol (SAP)
- > Session Initiation Protocol (SIP) RFC 3621, 3264 & 3515 V2
- > Standards – Call control & Text Messaging (RFC 3261 & DPRFC 2321)
- > DTMF RFC 2833
- > Software updates by TFTP
- > WEP (64/128 bit encryption)
- > WPA
- > WPA2

#### Order Code

- > MP&101-H

#### Telephony Features

- > Call forwarding
- > Caller ID
- > Call Waiting
- > Call Mute
- > Re-dial (last 20 records)
- > Hot key dialing
- > Text messaging (stores up to 100 messages)
- > Multiple ring tones
- > Phone book (up to 200 records)
- > Power saving mode
- > Speaker and microphone volume controls
- > Vibrating alert and silent mode

#### RSM

- > Compatible with Motorola PMMN4021 and PmmN4027