

# FUSION<sup>i</sup>

## Cortex



Improving the safety  
& productivity of  
your underground  
environment

- > Underground communications solution
- > Ready for harsh underground conditions
- > Emergency Man-down
- > Convenient radio-like Push-To-Talk functionality
- > LTE and Wi-Fi
- > With HELIX, enables control room functionality underground
- > Bluetooth remote speaker mic supported



# FUSION

## Cortex

**MST FUSION Cortex is a ruggedised smart phone developed specifically for harsh underground environments. This phone has advanced software and is installed with the Cortex Talk application. The application has Push-to-Talk, Emergency Man-down, VoIP and texting capabilities. Through its compatibility with HELIX, the Cortex user can, whilst underground, monitor and take control of automated processes using dashboards, and locate people and equipment anywhere in the mine. The MST FUSION Cortex supports a Bluetooth remote speaker mic to further enhance its ease of use.**

Designed to work seamlessly with Wi-Fi and LTE networks, **Cortex** also takes advantage of MST's tracking capabilities to vastly improve the safety and location awareness of your personnel and assets. Based on the Android platform, **Cortex** is easy to operate and provides a user experience familiar to anyone who has used a touchscreen mobile phone. **Cortex** enables access to HELIX, MST's enterprise software platform, whilst underground. This functionality, normally reserved for mine site control rooms, adds flexibility and productivity through the information available at the **Cortex** user's fingertips.

**Cortex** is fully compatible with MST's existing MinePhone (MP71) which allows you the opportunity to implement a staged replacement of aging handsets.

### SPECIFICATIONS

#### SYSTEM

- > OS: Android based MST FUSION
- > CPU: MTK6750 Octa-core, up to 1.5GHz
- > Flash: 64GB (54GB available)
- > RAM: 4GB

#### SCREEN

- > Display Size: 5.0"
- > Display Technique: Multi points touch
- > Resolution: 1920 \* 1080 Pixels

#### CAMERAS

- > Front Camera: 5.0MP
- > Back Camera: 13.0MP

#### BATTERY

- > Capacity: 4700mAh (Non-removable)

#### WEIGHT AND DIMENSIONS

- > Size: 155 \* 82 \* 16.5mm /  
6.10 \* 3.23 \* 0.65in
- > Weight: 255g / 9oz

#### NETWORK

- > Type: GSM / WCDMA / FDD-LTE
- > Band
  - 2G: GSM 850/900/1800/1900
  - 3G: WCDMA: 850/900/2100
  - 4G: FDD: B1/3/7/8/20 TDD:B40
- > Dual SIM cards, Dual standby
- > SIM Card Type: 2 x Micro SIM
- > Wi-Fi: 802.11 b/g/n/ac
- > Bluetooth: Version 4.0

#### PACKAGE CONTENTS

- > Phone
- > Power adapter
- > USB cable
- > SIM card eject tool
- > Earphones
- > Manual

#### ACCESSORIES

- > Remote Speaker Mic
  - Bluetooth
  - LED indicators
  - Talk time: 14 hours (approx.)

#### GENERAL

- > IP68, water & dust proof
- > Multilanguage
- > GPS: Supported
- > Sensors: Accelerometer, Proximity Sensor, Light Sensor
- > Image: JPEG, BMP, GIF, PNG, etc.
- > Video: AVI, 3GP, MP4, WMV, MKV, MOV, ASF, RM, FLV etc.
- > Audio: WAV, MP3, MP2, AAC, AMR, MIDI etc.
- > Other Features: Messaging, Wallpapers, Clock, etc.