

# UltraComm®

## Complete Wireless Communications

MSHA and West Virginia Approved!



### features & benefits

- Multi-channel radio technology offers unmatched 500 MHz (UHF) and 155/159 MHz (VHF) radio coverage and range
- Fully mine tested with proven operational record – hundreds of miles installed in coal and hard rock mines
- Provides increase in manpower efficiency and productivity
- Compatible with MineAx™ “Bird-Dog”™ tracking
- High reliability design – simple to install and service; less maintenance and lower costs with better performance
- MSHA approved radio network and underground power supply
- Safety First – Portable radios employ emergency alert feature initiated from unit or dispatcher; individual units may be ‘pinged’ to determine operability

Tunnel Radio’s patented UltraComm® TR-155 and TR-500 MHz products are quickly becoming the industry standard. The UltraComm system is simple to install and operate, is dependable and allows excellent range from the cable. After thorough operational evaluation by the West Virginia Office of Mine Safety, Tunnel Radio’s system came out on top with the best range and user acceptance ratings. Your crew and fleet are in good hands with UltraComm.

Combined with the most comprehensive service network in the USA, your mine will be in good hands with Tunnel Radio – even after the sale!

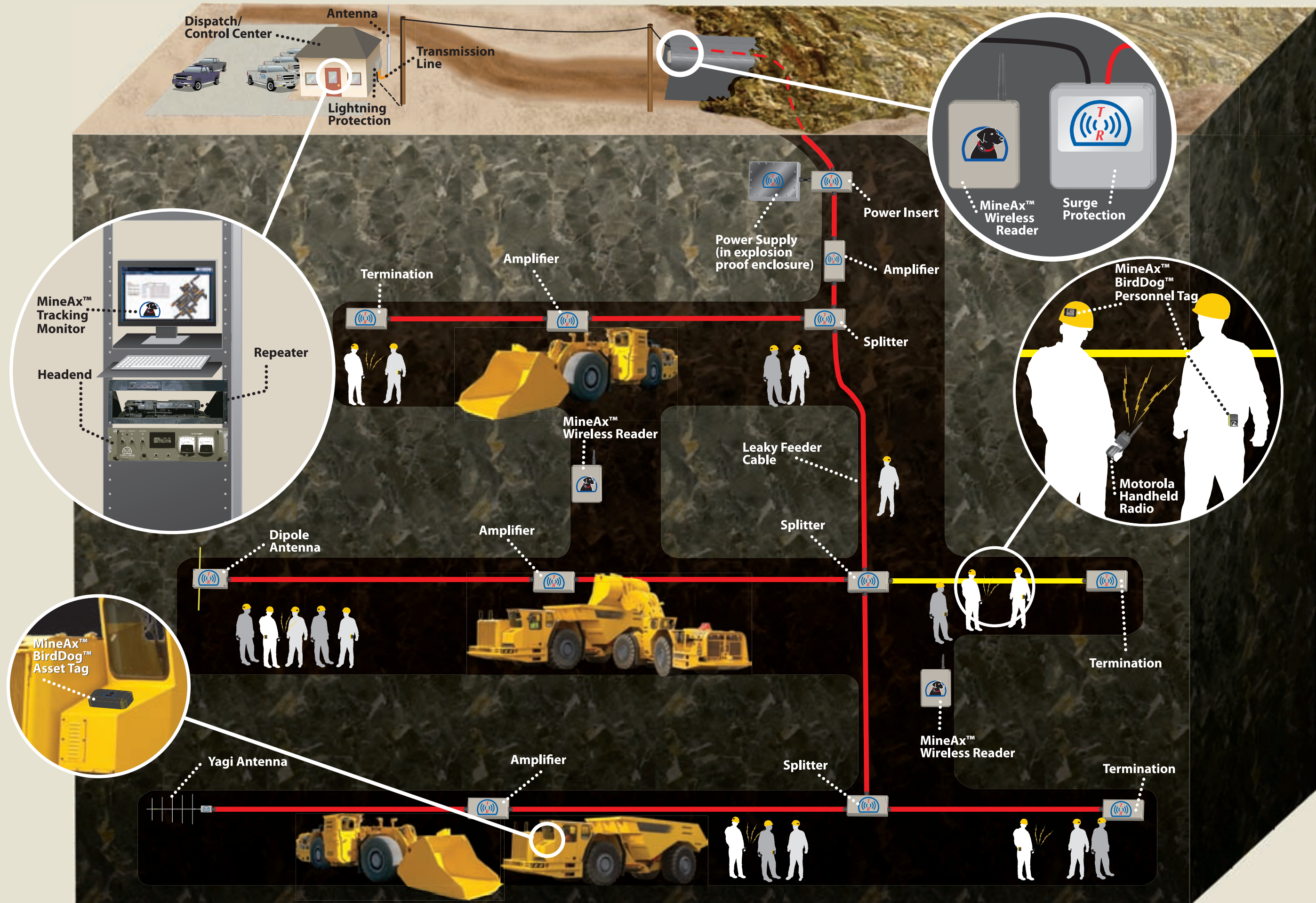
#### System Options and Add-Ins:

- MineAx™ “Bird-Dog”™ personnel and vehicle tracking
- Tunnel Monitoring System (TMS) provides condition monitoring of your radio system and transmits emergency alarms and notifications when needed
- The TR-RD2 allows for radio remote control of fans, pumps and utilities via a hand-held portable unit



**“A wireless mine...  
is a safer mine!”**

# Tunnel Radio Wireless Mine



## Tunnel Radio's TR-155 and TR-500 UltraComm® Systems

# Competitive Comparison



### Signal Range:

**Tunnel Radio TR-500 – 2000+ feet**

**Tunnel Radio TR-155 – 400-700 feet**

**Others – 300 feet or less**

*In a standard opening, Tunnel Radio's TR-500 signal can be found over 10 times the distance of other competitors' signals.*

# Best in Class Radio Range

System type	TR-500 (UHF)	TR-155/159 (VHF)
Frequency range	400-500 MHz	140-170 MHz
Gain	30 dB nominal	20/30 dB nominal
Channel capacity (4 std.; 8 optional)	4/8	
Monitoring system	TMS/Digital	
Amplifier spacing	1100-1600 ft. max.	
Impedance	50 or 75 ohms	75 ohms
Diameter	0.510 in.	0.590 in.
Jacket type	MSHA rated	
Head end unit	5.75 x 19.0 x 24.0 in.	
Voltage	Std.: 35 VDC MSHA: 12.8 V	
Approvals	FCC 15.211 MSHA #23-A070005-0 West Virginia Safety	



**MOTOROLA**  
Authorized Two-Way Radio Dealer

The Motorola HT1250 unit as shown above is used with Tunnel Radio's UltraComm system.



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