

CanaryTalk is a highly portable, operational and critical use communications solution ideal for application in infrastructure construction, maintenance and operations, public safety practices and military operations when personnel need to move easily while using voice and data

CanaryTalk can be used both above and below ground where typical radios do not work, including underground urban areas such as sewers, tunnels, garages. It is quick to set up and can integrate with existing communication infrastructure or function independently.



### **ELECTRICAL SPECIFICATIONS**

Operating Frequency	i to 9 kHz (unlicensed) vLF band
Signal Type	Digitally modulated magnetic field
Data Throughput	Up to 1kbps full duplex
Text Communication	Via external keyboard
Voice Communications	1 circuit, half duplex (PTT) at 800 bps
Power Supply	Internal Li-ion with external charger
Battery Endurance	> 8 hours continuous transmission
Range Through Solid Material (Vertical or Horizontal)	> 100m (with standard 5m antenna) Up to 300m with external loop antenna
USER INTERFACES	
Radio Switch	On/Off/Charge
Status Display	Receive signal and battery levels
Indicators	TX, RX meassage, alarm

# **EXTERNAL INTERFACES**

Audio	Integrated fist mic with PTT button
Sensor Data	RS-485, 2 x Digital Input (isolated 5V)
Control Output	2 x Digital Output (isolated 5V) 2 x Form C Relay
USB	1 x USB 2.0 port
System Configuration	Canary GUI Windows PC based configuration software

### **OPTIONS**

CSA/UL1950

The following factory installed options are available:
1m loop antenna (25m range)
VHF/UHF Radio Interface
Remote Control Unit Interface
External LED Lamp

REGULATORY COMPLIANCE	
The CanaryTalk TTE Terminal is designed to the following regulatory standards:	
FCC Part 15 Class A	
ICES-003	

## PHYSICAL SPECIFICATIONS

The system is designed to operate in non weather-protected and underground environments. Environmental specifications are compliant with MIL-STD-810G.

Dimensions	40.5cm x 22cm x 34cm (16" x 8.75" x 13.5")	
Weight	7.4kg (16lbs)	
Operating Temperature	-35° to + 45°C	
Humidity	0 to 95%	
Vibration	MIL-STD-810G ground transportation	
Shock	MIL-STD-810G transit drop test	
Water Dust Ingress	ID 65 MIL CTO 910C rain	

# **ALL PRODUCTS**

All products are designed for seamless interoperability to accommodate flexible configuration.

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INFRASTRUCTURE, PU	BLIC SAFETY, MILITARY	MINING	ACTUATION		
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CanaryTalk	CanaryCommPac	CanaryComm-IS	CanaryBlast CanaryRemote		
TTE voice and data communication where depth is a priority over portability	TTE voice, text and data communication where ultra- portability is a priority over depth	Intrinsically safe system for TTE voice, text and data communication	TTE remote control unit for one-way wireless detonation and remote actuation		
7.4kg Portable Two Way Link Voice, Data	2kg Portable Two Way Link Voice, Data	64kg Fixed Two Way Link Voice, Data, Text	0.5kg Portable One Way Link Data		
Up to 300m depth 5m loop antenna	Up to 300m depth  Variable	Up to 300m depth Variable loop antenna	Up to 70m Integrated ferrite antenna		

Note: The range at a particular location is dependent on the propagation conditions and noise level