

# Utilities

**CREWCOM**  
Hands-free Wireless Communications



## Hands-Free Wireless Communications Designed and Engineered to Increase Safety and Productivity for the Utility Industry

On many job sites, there are times where voice communication is "Mission Critical" for either worker safety or increased productivity. Whether the situation calls for better coordinating amongst workers to enhance productivity, or work-site hazards that demand accurate and potentially life-saving instructions, communication is a key element in many work environments.

## CrewCom Can Meet Your Demands for Quality Communication

The CrewCom system allows for constant communication allowing users to operate hands free. In the electric utility business, it is important to have a reliable communication system that improves safety and efficiency. When working with expensive equipment and high voltage work areas, it is vital that the users don't have to de-energize or worry about touching harmful substances while trying to communicate. Utility workers in a bucket truck need to communicate down to the ground for tools, reposition or pass on any updates on the project at hand. With the CrewCom system the user doesn't have to stop working, dial a cell phone or yell down to a crew member to relay feedback, he simply speaks. Starting and stopping a project can cost time and increase safety risks. CrewCom is the solution to increasing productivity and safety.

### Applications

- Line Pulling
- Sewer Jetting
- Tree Trimming
- Bucket Truck
- Traffic Signal Maintenance

- Hands-free
- Increase Safety
- No license required
- Allows for multiple workers to speak hands-free in full-duplex
- Supervisor or other personal can change communication from one group to another group simply and quickly
- Up to 10 hours of use with the built-in rechargeable battery
- 2.4GHz all-digital technology
- Lightweight comfortable design
- Works well in loud environments, reduces background noises
- Multiple headset options to fit every projects need
- Functional range of 400-600 ft.



# Specifications

## CrewCom™ System

<b>RF Frequency</b> .....	2400 to 2483 MHz
<b>RF Scheme</b> .....	FHSS with TDMA
<b>Effective Radiated Power</b> .....	100 mW (using 2dBi antenna)
<b>Receiver Sensitivity</b> .....	-93 dBm for 10 <sup>-5</sup> BER
<b>Radio Certification</b> .....	FCC Part 15.247 and ETS 300.328 rules, license free
<b>Transmission Range</b> .....	Up to 1000 Feet with clear line of site under ideal conditions, 550 Feet under normal operating conditions, 850 Feet with Optional Directional Antenna under normal operating conditions
<b>Audio Frequency Response</b> .....	300 Hz–4kHz with proprietary audio voice shaping



## Command BaseStation

<b>Intercom Audio Channels</b> .....	2
<b>Full Duplex BeltStations per BaseStation</b> .....	5
<b>Number of Antenna ports per BaseStation</b> .....	1
<b>Antenna Connector Type</b> .....	RP-TNC
<b>Maximum Number of BaseStations</b> .....	2
<b>Expansion Port</b> .....	2 per BaseStation
<b>Front-Panel Headset Microphone Type</b> .....	Dynamic or Electret, auto-selected
<b>Dimensions (inches)</b> .....	6" W x 3.25" H x 4" D
<b>Weight</b> .....	2 lbs 12 oz (including batteries)
<b>Internal Battery Life</b> .....	Up to 10 hours continuous use
<b>Power Input</b>	
<b>AC:</b> .....	120 VAC 60 Hz
<b>DC:</b> .....	5 VDC using supplied charger

## BeltPack

<b>Intercom Audio Channels</b> .....	2
<b>Headset Connector</b> .....	4-pin male
<b>Headset Connector Type</b> .....	XLR-4M
<b>Antenna</b> .....	Internal +2dBi patch
<b>Charger</b> .....	Input 120V,60Hz, Output 5V, 2.0A
<b>Battery Life, Rechargeable</b> .....	Approximately 10 hours
<b>Dimensions (inches)</b> .....	3.8" W x 5.28" H x 1.15" D
<b>Weight</b> .....	10 oz
<b>Operating Environment</b> .....	-40 to 70 C, 20% to 90% Humidity

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## CrewCom Vs. Competition

Unlike walkie-talkies or cell-phone-connect systems, CrewCom offers instantly available, portable, telephone-like 2-way communication to multiple-users, with interference free clarity, digitally secured private conversations, and up to 10 hours of continuous talk time.

	Hands Free	Talk Time (hours)	Private Secure Conversation	Talk Channels	Full 2-way	Users in a Loud Area	License Free	Automatic Frequency Selection	All Digital	Instant Connect	Always Ready/ Usable	Requires Monthly Subscription
CrewCom	Y	10	Y	2	Y	9	Y	Y	Y	Y	Y	N
Walkie Talkie	N	–	N	1	N	1	N	N	N	Y	N	Sometimes
Cell Phone	N	3-4	Y	1	Y	1	Y	Y	Y	N	N	Y



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