Tempest®2400 Wireless
CP-222 2-Channel Wireless BeltStation

Clear-Com®
COMMUNICATION SYSTEMS

CP-222 2-Channel
Wireless BeltStation

Description

The **CP-222** is a two-channel wireless BeltStation that operates in conjunction with the CM-222 Tempest BaseStation; up to five CP-222 full-duplex BeltStations can operate on one BaseStation (in Normal Mode). By switching to Shared Mode, up to 200 BeltStations can be connected to one BaseStation.

With true dual talk/listen capability, each CP-222 BeltStation can simultaneously monitor and/or talk on both of the four hard-wired channels. Each BeltStation user may simultaneously talk/listen on A and B or toggle between A and B in "Single Listen" mode.

Audio

Each of the five CP-222 BeltStations establishes a unique audio path (point-to-point) with the associated CM-222 BaseStation delivering an individualized mix minus signal to each BeltStation in the system. Therefore, each BeltStation can monitor a unique mix of intercom channels and other audio sources.

In addition, each CP-222 BeltStation can access the BaseStation's Stage Announce (SA) output with a relay closure or it can be assigned one of five additional relay closures available from the BaseStation's rear panel DB-15 connector. These remotely fired relays are ideal for use with public address systems (PA), city-wide IFB transmitters or virtually any application that can be triggered with a General Purpose Input/Output (GPIO).

iSelect™ Roaming

Large installations often require users to move from one work zone to another throughout the day. The CP-222 BeltStations handle these transitions with iSelect™ on-command roaming technology. Accessing iSelect through the CP-222 BeltStation LCD user interface allows a user to easily change their association with another base station location in just a few seconds. The CP-222 BeltStations remember the last 64 BaseStations to which they have been paired.

Durability

The CP-222 BeltStations are made of an incredibly strong, weather-resistant ABS co-polymer blend with a high performance polyurethane over-mold. The BeltStations are designed to be both comfortable to wear and very rugged in order to withstand the most challenging production environments.

Features:

- 2-channel, full-duplex BeltStations

- 2.4 GHz, license free operation

- Frequency Hopping Spread Spectrum technology

- Connect up to 200 BeltStations per BaseStation

- 2xTX redundant data transmission

- Dual talk/listen operation

- iSelect™ On-Command Roaming

- Compatible with Clear-Com®, RTS®, AudioCom®

- Hard-wired Remote Mic Kill and Call

- Backlit LCD screen shows battery life, RF signal strength and more

- Stage Announce output with relay closure

- 5 individually assignable relay closures and base station

- 2000 mAh Lithium-Polymer rechargeable battery (or 3 Alkaline AA batteries)

- Weather resistant enclosure

- >94 dB dynamic audio range

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BeltStation Legend
1) Volume Channels A/B
2) Channel A and B Talk Buttons
3) STAGE Button
4) ENTER Button
5) CALL Button
6) LCD
7) MENU Button
8) Belt Clip
9) Power ON/OFF Button
10) Battery Compartment
11) Headset Connector
12) BeltStation Pairing Connector
13) USB Mini B Connector
14) Rubberized Access Cover

Technical Specifications:

System Specifications

RF Frequency:	2400 to 2480 GHz
RF Scheme:	FHSS with TDMA
Effective Radiated Power:	100mW using 2dBi antenna
Receiver Sensitivity:	-93 dBm for 10^{-5} BER
Radio Certification:	FCC Part 15.247 and ETS 300.328 rules, license free
Transmission Range:	Up to 1,000ft (305m); 500 - 900ft (150 - 275m) typical
Audio Dynamic Range:	>94dB
Audio Frequency Response:	300Hz - 3.8KHz with proprietary audio voice shaping

BeltStation Specifications

Intercom Audio Channels:	2
Headset Connector:	4-pin male XLR
MicrophoneType:	Dynamic or Electret, Auto-Selected
Antenna Internal:	+2 dBi patch
Charger Input:	100-240V, 0.3A, 50-60Hz
Charger Output:	5V, 1.25A
Battery Charging:	via mini USB connector using supplied charger
Battery Life, Rechargeable Lithium-Polymer:	Up to 9+ hours
Charge Time, Rechargeable Lithium-Polymer:	2 3/4 hours in BeltStation; 2 1/2 hours in charger (from empty)
Optional Power:	3 Standard AA alkaline cells
Battery Life, Alkaline:	Approximately 4 hours

Environmental
-4º – 122º F (-20º – 50º C)

Dimensions
4.0 in W x 6.1 in H x 1.75 in D
(102 mm x 156 mm x 44.5 mm)

Weight
14.3 oz (0.41 kg)

Notice About Specifications
While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

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