

# CP-942 4-Channel BeltStation



CP-942 4-Channel  
900MHz BeltStation



The CP-942 is a rugged 4-channel BeltStation operating in the 900MHz frequency range providing users with full-duplex communication that need to penetrate dense structures like concrete or brick.

## DESCRIPTION

The CP-942 is a 4-channel wireless BeltStation that operates in conjunction with the CM-942 Tempest900 BaseStation. There are three modes of operation for a BeltStation - Normal, Split and Shared. By switching to Shared or Split Mode, an unlimited number of BeltStations can be registered to each BaseStation using shared resources.

Each BeltStation user may simultaneously Talk/Listen on A or B and C or D or toggle between A and B or C and D in "Single Listen" mode. Volume is set by the by rotating the CH A/B or CH C/D rotary control.

There are four Talk buttons on each BeltStation, one for each channel. The Talk button enables the microphone signal for the assigned intercom channels. Each Talk button has individual LED indicators.

The Talk button can be latching or momentary. The Call button sends a 2-wire compatible call signal to any wireless BeltStation and any hardwired intercom device on the intercom channel.

BeltStations are provided with a rechargeable Li-Polymer battery capable of 9+ hours of operation or

can be powered by (3) Standard AA Alkaline batteries. Each BeltStation has its own back-lit display and menu functions which allow settings to be changed at the BeltStation locally.

## AUDIO

Each full-duplex BeltStation establishes a unique audio path (point-to-point) with the associated CM-942 BaseStation delivering an individualized mix minus signal to other BeltStations in the system. Therefore, each BeltStation can monitor a unique mix of intercom channels and other audio sources.

## DURABILITY

The CP-942 BeltStations are made of an incredibly strong, weather-resistant ABS co-polymer blend with a high performance polyurethane over-mold.

## ACCU-SYNC

Accu-Sync provides a common timing signal between connected BaseStations. This signal ensures that transmission cycles for all Accu-Synced BaseStations occur simultaneously. This synchronized transmission eliminates the negative RF effect, called de-sensing, minimizing potential RF interference between BaseStations.

## iSELECT™ ROAMING

The CP-942 BeltStations handle work zone transitions with iSelect™ on-command roaming technology. Accessing iSelect through the CP-942 BeltStation LCD user interface allows a user to easily change their association with another CM-942 BaseStation location in just a few seconds.

## KEY FEATURES AND BENEFITS

- 4-channel, full-duplex BeltStations
- 900MHz, license free operation
- Dual talk/listen operation
- Accu-Sync synchronization
- iSelect™ Roaming
- 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 BaseStation
- Lithium-Polymer rechargeable battery (or 3 Alkaline AA batteries)
- Weather resistant enclosure
- Only available in US and Canada

# CP-942 4-Channel BeltStation



## BeltStation Legend

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

## TECHNICAL SPECIFICATIONS

### System Specifications

RF Frequency:	902 to 928 MHz
RF Scheme:	FHSS with TDMA
Effective Radiated Power:	250mW using 2dBi antenna
Receiver Sensitivity:	-100 dBm for 10 <sup>-5</sup> BER
Radio Certification:	FCC Part 15, Canadian RSS-210, 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
System Latency:	Less than 50ms direct

### BeltStation Specifications

Intercom Audio Channels:	4
Simultaneous Listen Paths:	True Dual Listen
Headset Connector:	4-pin male XLR
Microphone Type:	Dynamic or Electret, Auto-Selected
LCD Display:	102 x 80 pixels
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 8+ 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 3 hours

### Environmental

-4° – 122° F (-20° – 50° 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.