## **CP-242 4-Channel BeltStation**





The CP-242 is a 4-channel wireless BeltStation operating in the 2.4GHz frequency range making it the ideal wireless intercom system for indoors, outdoors and touring applications.

#### DESCRIPTION

The CP-242 is a 4-channel wireless BeltStation that operates in conjunction with the CM-244 Tempest2400 BaseStation. There are 3 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 the by rotating the CH A/B or CH C/D rotary control.

There are two 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-244 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-242 BeltStations are made of a weather-resistant ABS co-polymer blend with a high performance polyurethane over-mold.

#### **TEMPEST2400 SEAMLESS ROAMING**

Tempest2400 Seamless Roaming is the ability for one or more Tempest2400 BeltStations to move freely from one BaseStation to another without any intervention from the end user. This allows the implementation of a Tempest2400 wireless intercom system which can cover large areas with multiple zones or areas in a facility that would not be adequately supported by a single antenna installation.

A BeltStation can roam between as many as 16 different BaseStations (coverage areas or zones). In addition, all Tempest operational modes (Normal, Shared and Split) are supported for seamless roaming operation.

#### **KEY FEATURES AND BENEFITS**

- 4-channel, full-duplex BeltStation
- 2.4GHz, license free operation
- Dual Talk/Listen operation
- Backlit LCD screen shows battery life, RF signal strength and more
- Stage Announce output with relay closure
- Lithium-Polymer rechargeable battery (or 3 Alkaline AA batteries)
- Weather resistant enclosure

#### **Roaming Features**

- Seamless roaming of BeltStation between BaseStations
- Supports Normal, Shared and Split Modes
- Scalable architecture allows for seamless linked roaming zones
- Seamless handoffs between roaming zones automatic



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#### **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**

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System Specifications		BeltStation Specifications	
RF Frequency: RF Scheme:	2400 to 2480 GHz FHSS with TDMA	Intercom Audio Channels:	4
Effective Radiated Power:	100mW using 2dBi	Headset Connector: MicrophoneType:	4-pin ma Dynamic
Receiver Sensitivity:	antenna -93 dBm for 10 <sup>-5</sup> BER	Antenna Internal:	Auto-Sel +2 dBi p
Radio Certification:	FCC Part 15.247 and ETS 300.328 rules, license free	Charger Input: Charger Output:	100-240 5V, 1.25A
Transmission Range:	Up to 1,000ft (305m); 500 - 900ft (150 - 275m) typical	Battery Charging:	via mini l using su
Audio Dynamic Range: Audio Frequency	51	Battery Life, Rechargeable Lithium-Polymer:	Up to 9+
Response:	300Hz - 3.8KHz with proprietary audio voice shaping	Charge Time, Rechargeable	·
		Lithium-Polymer:	2 3/4 hou 2 1/2 hou (from em

**Optional Power:** 

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ale XLR c or Electret, elected patch 0V, 0.3A, 50-60Hz 5A USB connector upplied charger + hours ours in BeltStation; ours in charger (from empty) 3 Standard AA alkaline cells Battery Life, Alkaline: Approximately 4 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** 

performance may vary.

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

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