



CB-222 2-Channel
2.4GHz MasterBelt

The Tempest2400 MasterBelt gives users the power, features, and reliability of a Tempest2400 BaseStation in a compact and portable package

DESCRIPTION

The CB-222 is a 2-Channel MasterBelt that functions much like a CM-222 Tempest2400 2-Channel BaseStation. The MasterBelt can be paired with any standard Tempest2400 CP-222 2-channel BeltStation to create a full-featured 2-channel system. The MasterBelt also functions as the 6th full-duplex wireless user. There are 3 modes of operation for a MasterBelt - Normal, Split and Shared. By switching to Shared or Split Mode, an unlimited number of BeltStations can be registered to each MasterBelt using shared resources.

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

There are two Talk buttons on each MasterBelt, 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 hard wired intercom device on the intercom channel.

MasterBelts are provided with a rechargeable Li-Polymer battery capable of 8+ hours of operation or can be powered by (3) Standard AA Alkaline batteries. Like the BeltStations, the MasterBelt has its own back-lit display and menu functions which allow settings to be changed at the MasterBelt locally.

AUDIO

Each wireless MasterBelt and associated BeltStations can simultaneously monitor and/or talk on both wireless intercom channels while in dual listen mode. Alternatively, the MasterBelt and BeltStations may be placed in "Single Listen" mode if the user wants to switch back and forth between the two channels individually.

DURABILITY

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

KEY FEATURES AND BENEFITS

- MasterBelt functions as a BaseStation
- Up to 5 full-duplex MasterBelts in Normal Mode for a total of 6 wireless users
- Unlimited number of MasterBelts in Shared and Split Mode
- 2-channel, full-duplex MasterBelt
- 2.4 GHz, license free operation
- Frequency Hopping Spread Spectrum technology
- 2xTX redundant data transmission
- Dual talk/listen operation
- Vibrate, as well as audible tone call alert
- 2000 mAh Lithium-Polymer rechargeable battery (or 3 Alkaline AA batteries)
- Weather resistant enclosure



BeltStation Legend

1. Volume Channels A and B
2. BASE 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:	2400 to 2480GHz
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:	200ft to 600ft (61-183m) 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:	2
Simultaneous Listen Paths:	True Dual Listen
Headset Connector:	4-pin male XLR
Microphone Type:	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 8+ hours
Charge Time, Rechargeable Lithium-Polymer:	2 3/4 hours in MasterBelt; 2 1/2 hours in charger (from empty)
Optional Power:	3 Standard AA alkaline cells
Battery Life, Alkaline:	Approximately 4 hours

Environmental

-4° – 122° F (-20°-50° C)

Dimensions

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

Weight

14.3 oz (0.41kg)

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.