Tempest
BY PLIANT

Tempest2400 MasterBelt®
2-Channel Wireless Intercom
Operating Manual

Thank You

Thank you for purchasing a Tempest® MasterBelt® Wireless Intercom System. We have made every effort to build a reliable, intuitive wireless intercom system that provides the same functionality that you expect from your hard-wired intercom equipment.

One of our goals in the design of Tempest was that it should work the way you think it should work – that is, it should be intuitive and similar to other equipment that you may already use. You will be able to begin using your new Tempest wireless intercom system with nothing more than the Quick Start Guide. However, to fully benefit from the available features, please read this manual carefully.

We want Tempest to make your job easier and your experience to be positive. To successfully familiarize yourself with the many diverse and powerful features Tempest offers, it is crucial that you acquaint yourself with the manual. Your time spent will help you get the most from your Tempest wireless intercom by making setup easier.

We are committed to providing you with a high quality product that will deliver years of trouble-free service. Should you experience any problem with your Tempest equipment, whether it is a warranted problem or service after you have owned the system for several years, we will be there to take care of you.

Thank you for choosing Tempest for your wireless intercom needs.

Tempest2400 MasterBelt 2-Channel Wireless Intercom Operating Manual

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Legal Information

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Important Safety Instructions

The word "Caution" is the lowest of the three signal words (Caution, Warning and Danger), with "Danger" being the highest. Therefore, whenever the word "Caution" is used, it may be replaced with either of the higher rated signal words: "Warning" or "Danger."

- • DANGER – indicates a situation which, when not avoided, results in death or severe injury;

- • WARNING – indicates a situation which, when not avoided, has the potential to result in death or severe injury;

- • CAUTION – indicates a situation which, when not avoided, results or has the potential to result in minor injury.

1. Read these instructions.

2. Follow all instructions.

3. Heed all warnings.

4. Keep these instructions.

WARNING – To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water.

Do not expose the apparatus to dripping or splashing. Do not place objects filled with liquids, such as vases, on the apparatus.

The MasterBelt shall be connected to a main socket outlet having a protective earthing connection.

Install the MasterBelt so that the appliance coupler (AC power inlet) is readily accessible and operable. Clean only with a dry cloth.

Install in accordance with manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarizing or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit the apparatus.

Only use attachments/accessories specified by the manufacturer.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, for example if the power-supply cord has been damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

A/C Power Warning

> ⚡ *Users should exercise extreme care when working with electricity. Additional care should be used when working with electricity outdoors in inclement weather. When working outdoors or near water, always connect the system into a ground-fault interrupting circuit.*

There are no user-serviceable parts inside the Tempest MasterBelt. Opening the case may expose dangerous electrical components, and will void the warranty.

▽   ALERT SYMBOL – Indicates important information.

⚠   CAUTION SYMBOL – Indicates a potential to damage equipment.

⚡   DANGER SYMBOL – indicates a potential safety hazard.

Battery Safety

Battery Transportation

Rechargeable lithium batteries are subject to special regulation by U.S. and International laws, particularly regarding transportation on passenger aircraft. However, individual batteries installed in consumer electronics are not restricted, provided there are only the correct numbers and types of batteries as may be needed to operate the electronic equipment.

Your Tempest MasterBelt Wireless Intercom System includes rechargeable lithium-polymer batteries that power the MasterBelt and BeltStations. To ensure that there is no violation of U.S. or International laws, and to ensure your own safety, always:

- Transport rechargeable lithium batteries installed in the equipment they are intended to power.

- Transport spare batteries in a padded case, separated from one another.

- Never transport your rechargeable lithium batteries bundled together.

- Never transport more than 12 lithium batteries in a single package.

Lithium-polymer batteries include a chemistry that is intended to overcome the dangers associated with lithium ion batteries. In addition, the batteries that accompany your Tempest Wireless system include protective circuits to further reduce the possibility of a dangerous reaction associated with charging or discharging beyond safe limits. With reasonable care you can expect many years of safe and reliable power from your batteries.

Tempest batteries are not subject to transport regulations of dangerous goods because they fulfill the following regulatory provisions:

- ADR 188

- IATA A45

- IMDG 188

Battery Storage

Long-term storage of batteries at maximum charge can result in permanent loss of capacity.

For long term storage of batteries, charge/discharge the batteries to approximately 60% of capacity. Batteries stored for longer than one year should be recharged to 60% annually. Trickle charging is not recommended due to the very low self discharge rate of the batteries.

As with all batteries:

- Do not burn.

- Do not expose batteries to excessive heat such as sunshine, fire or other heat sources.

- CAUTION – Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

- Properly dispose of used batteries promptly.

- Keep away from children.

Maintenance and Care

Cleaning

Generally, the Tempest Wireless hardware should be cleaned only with a dry cloth. A soft cloth with rubbing alcohol may be used to wipe the units if needed. Never spray solvents or chemicals onto the units.

Because of Tempest's weather resistant design, it is not highly susceptible to dust or airborne contaminants. However, all electronic devices can be susceptible to particulate contamination. If exposed to an extremely dusty environment, contact an authorized Tempest service center for internal cleaning.

Temperature and Humidity

Ideally, all electronics should be stored and used in a controlled environment with moderate temperature and humidity. Tempest components are designed to be very durable, and can tolerate a wide range of environmental conditions.

Install the MasterBelt in a location where it will not be exposed to extreme weather conditions. Protect the unit against dust or moisture. Always protect any AC power connections from the elements with safety in mind.

The MasterBelt and BeltStations are designed to work wherever people work. While the design is weather resistant, the headset XLR connector on the bottom is not watertight. MasterBelts or BeltStations should not be submerged in liquids. Protect the battery compartment from water when changing batteries. The battery compartment offers a route to the electronic circuitry.

MasterBelt Overview

The Tempest MasterBelt is a 2-Channel Tempest BeltStation that serves as a Tempest BaseStation. The MasterBelt is compatible with existing 2-Channel Tempest BeltStations. Like a Tempest BaseStation, the MasterBelt is capable of hosting and supporting up to five standard BeltStations in full duplex communication when operating in Normal mode. When operating in Shared or Split mode, the MasterBelt can support an unlimited number of standard BeltStations in a listen/push-to-talk capacity.

The MasterBelt can be situated in a fixed location (like a BaseStation) or worn in a mobile capacity (like a BeltStation). This type of flexibility and mobility enables users to overcome challenges associated with AC power needs, fixed antenna placement and limited coverage area. With a MasterBelt, groups of Tempest users can effectively move together and maintain wireless communication with one another without the need of a traditional BaseStation or fixed antenna.

A MasterBelt has many of the same functional and cosmetic characteristics of a standard BeltStation. Talk buttons, channel buttons, volume knobs, and many other features remain the same.

1- Volume- CH A and CH B

In Operational Mode, turning the Volume control adjusts the volume of the audio. Volume indicators appear on the display during adjustment and are expressed in Decibels (dB).

The Volume control has an option to be set to "Volume Press" where it requires a "press and turn" to adjust the volume level. The "Volume Press" option can be adjusted under the "Set Controls" section of the MasterBelt menu.

Pressing the Volume control in "Dual-listen" mode does nothing. In "Single-listen" mode, pressing "CH A" enables channel A, and pressing "CH B" enables channel B . The Volume control has a channel "Delay Switch" option which requires the knob to be pressed and held slightly longer in order to switch from one channel to the other. This feature can be enabled under the "Set Controls" section of the MasterBelt menu.

In Menu Mode, turning either Volume control allows the user to scroll the options of the current menu screen. Pressing the Volume control selects the option.

BASE Button Display

2- Base Button

The BASE button (when pressed) changes the MasterBelt's display to show the telemetry status of all current BeltStations logged into the MasterBelt. Once on this screen, pressing the BASE button will cycle through each BeltStation's telemetry based on their assigned slot position.

3- MENU Button

Pressing MENU while the MasterBelt is in Operational mode will select Menu Mode, and the Main Menu screen will be displayed. Once in Menu Mode, pressing MENU again will act as an escape key and will back out of the current menu screen moving the user up one level. Pressing the MENU button while at the Main Menu screen will exit Menu Mode and return to Operational mode. The menu can be locked via a "Menu Lock" feature per MasterBelt.

4- ENTER Button

The ENTER button operates differently depending on the mode of the MasterBelt. In Menu Mode, pressing the ENTER button selects the current menu option and is the same as pressing a Volume control. A menu item is not selected until the ENTER button (or Volume control) is pressed.

The ENTER button can also activate Wireless ISO (wireless talk around).

5- LCD

While in Operational Mode, the LCD displays the number of BeltStations currently in use with the MasterBelt. In addition, it includes the name of the MasterBelt, battery life remaining, channel indicators and other data. The LCD backlight and contrast can be adjusted from the LCD Adjustments menu screen under the LCD/LED section of the MasterBelt menu.

Operational Display

6- CALL Button

The CALL Button sends a call signal to any wireless BeltStation on the same intercom channel. The Call signal will be routed to intercom channels indicated by the user's active Talk button(s).

> **Note:** *The TALK button must be enabled to send a call signal.*

1- Rubberized Access Cover
The Rubberized Access Cover helps prevent dust, dirt and liquid from entering the MasterBelt through the USB or the BeltStation pairing connector. Keep this cover securely closed at all times to ensure the best possible seal.

2- USB Mini B Connector

The USB Connector is used to charge the MasterBelt with the supplied wall charger. In addition, the USB connect is used to update the firmware of the MasterBelt.

3- Pairing Connector

The Pairing Connector is used to pair the MasterBelt to BeltStations using the supplied 3.5mm stereo mini connector.

1- Belt Clip

The Belt Clip enables the MasterBelt to be worn on the user's belt or other clothing item.

2- Power ON/OFF Button

The Power ON/OFF button is used to turn the MasterBelt ON or OFF. Press and hold the Power ON/OFF button for two seconds to turn the MasterBelt ON. Press for four seconds to turn the MasterBelt OFF.

3- Battery Compartment

The Battery Compartment holds either one Tempest Lithium-Polymer rechargeable battery or (3) standard alkaline AA cells. To remove the battery door, press down on the thumb markings and pull the battery door toward the bottom of the MasterBelt.
To remove batteries from the battery compartment turn the MasterBelt battery side down and tap the bottom of the MasterBelt on the palm of your other hand. Please be careful to insert alkaline AA batteries according to the marked polarity. All of the alkaline AA cells face the same direction. If the battery cover does not fit or close properly, the battery may not be inserted correctly.

4- Headset Connector

The 4-pin XLR male headset connector mates with most Dynamic or Electret headsets that have 4-pin XLR female connectors. This Headset connector allows a user to communicate in "Dual-listen" or "Single-listen" mode on either intercom channel.

The mic detect circuit (dynamic/electret) will indicate dynamic when it sees a load of 600Ω or less. It will indicate an electret when it sees 1kΩ or greater. Between 600Ω and 1kΩ is not recommended as it may not accurately detect mic type.

Talk Button A and B

A   B

There are two TALK buttons on each MasterBelt, one for channel A and the other for channel B. The Talk button enables the microphone signal for the assigned intercom channels.

Tempest uses an intelligent latching method for TALK buttons. Pressing the TALK button momentarily will cause the TALK button to latch. Pressing and holding the TALK button will cause the button to act as a momentary switch.

Talk tones can be enabled or disabled per MasterBelt. If enabled, users will here a tone each time the TALK button is pressed.

Channel Indicator LEDs A and B

Each Talk button has two individual LED indicators. Together they surround the Talk button. The LEDs will flash blue to indicate which intercom channel, A or B, has been selected and will illuminate continuously to indicate that "Talk" is enabled on that channel.

The Channel Indicator LEDs will flash red when the microphone signal is reaching a peak level and is entering into limiting.

MasterBelt Display Overview

1. Mode Setting - indicates the mode the MasterBelt is currently operating in (NORM, SHARE, or SPLIT.)

2. Battery Alert - indicates that the battery alert is enabled or disabled (shown as enabled).

3. Battery Status - visual indicator of battery level.

4. Battery Time - the operational time remaining on the battery.

5. MasterBelt Name - the name assigned to the MasterBelt.

6. Belt Slot/Status - surrounding box indicates a BeltStation is logged into that slot.

7. Channel Indicators - available channels and active channel shown with surrounding box.

8. Talk Status - TALK is displayed when latched/pressed.
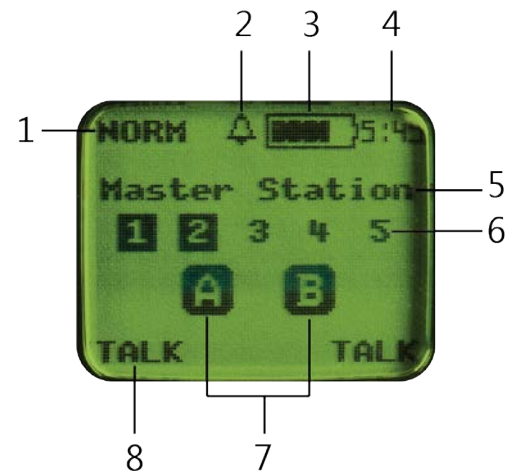
BeltStation Overview

1- Volume- CH A and CH B

In Operational Mode, turning the Volume control adjusts the volume of the audio. Volume indicators appear on the display during adjustment and are expressed in Decibels (dB).

The Volume control has an option to be set to "Volume Press" where it requires a "press and turn" to adjust the volume level. The "Volume Press" option can be adjusted under the "Set Controls" section of the BeltStation menu.

Pressing the Volume control in "Dual-listen" mode does nothing. In "Single-listen" mode, pressing "CH A" enables channel A, and pressing "CH B" enables channel B . The Volume control has a channel "Delay Switch" option which requires the knob to be pressed and held slightly longer in order to switch from one channel to the other. This feature can be enabled under the "Set Controls" section of the BeltStation menu.

In Menu Mode, turning either Volume control allows the user to scroll the options of the current menu screen. Pressing the Volume control selects the option.

2- STAGE Button

The Stage Announce (STAGE) button has no functionality when a BeltStation is operating with a MasterBelt.

3- MENU Button

Pressing MENU while the BeltStation is in Operational mode will select Menu Mode, and the Main Menu screen will be displayed. Once in Menu Mode, pressing MENU again will act as an escape key and will back out of the current menu screen moving the user up one level. Pressing the MENU button while at the Main Menu screen will exit Menu Mode and return to Operational mode. The menu can be locked via a "Menu Lock" feature per BeltStation.

4- ENTER Button

The ENTER button operates differently depending on the mode of the BeltStation. In Menu Mode, pressing the ENTER button selects the current menu option and is the same as pressing a Volume control. A menu item is not selected until the ENTER button (or Volume control) is pressed.

The ENTER button can also activate Wireless ISO (wireless talk around), providing wireless communication isolated from any connected wired intercom system.

5- LCD

While in Operational Mode, the LCD displays the status of the BeltStation including the name of the currently communicating MasterBelt, radio strength, battery level, and other data. The LCD backlight and contrast can be adjusted from the LCD Adjustments menu screen under the LCD/LED section of the BeltStation menu.

Operational Display

6- CALL Button

The CALL Button sends call signal to any wireless BeltStation on the same intercom channel. The Call signal will be routed to intercom channels indicated by the user's active Talk button(s).

> **Note:** *The TALK button must be enabled to send a call signal.*

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3- Battery Compartment

The Battery Compartment holds either one Tempest Lithium-Polymer rechargeable battery or (3) standard alkaline AA cells. To remove the battery door, press down on the thumb markings and pull the battery door toward the bottom of the BeltStation. To remove batteries from the battery compartment turn the BeltStation battery side down and tap the bottom of the BeltStation on the palm of your other hand. Please be careful to insert alkaline AA batteries according to the marked polarity. All of the alkaline AA cells face the same direction. If the battery cover does not fit or close properly, the battery may not be inserted correctly.

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Talk tones can be enabled or disabled per BeltStation. If enabled, users will here a tone each time the TALK button is pressed.

Channel Indicator LEDs A and B

Each Talk button has two individual LED indicators. Together they surround the Talk button. The LEDs will flash blue to indicate which intercom channel, A or B, has been selected and will illuminate continuously to indicate that "Talk" is enabled on that channel.

The Channel Indicator LEDs will flash red when the microphone signal is reaching a peak level and is entering into limiting.

BeltStation Display Overview

1. RSS Indicator - indicates the Radio Signal Strength of the BeltStation's internal radio.

2. Battery Alert - indicates that the battery alert is enabled or disabled (shown as enabled).

3. Battery Status - visual indicator of battery level.

4. Battery Time - the operational time remaining on the battery.

5. MasterBelt Name - the name assigned to the MasterBelt.

6. BeltStation Name - the name assigned to the BeltStation.

7. Channel Indicators - available channels and active channel shown with surrounding box.

8. Talk Status - TALK is displayed when latched/pressed.
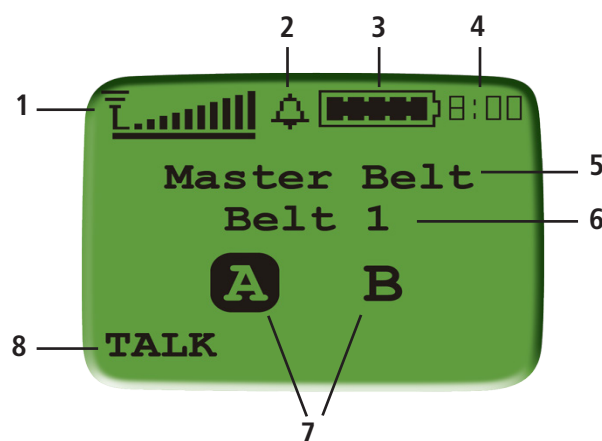
MasterBelt Setup

Selecting MasterBelt Location

Antenna Pattern

The Tempest MasterBelt and BeltStation have the same internal patch antenna located at the top-end of the unit. It is important to understand the antenna propagation when determining the location of the MasterBelt during operation. The MasterBelt and BeltStation antenna is a linear polarized omnidirectional antenna. However, due to its positioning at the top of the BeltStation, the antenna is attenuated at its bottom, thus creating a directional pattern.
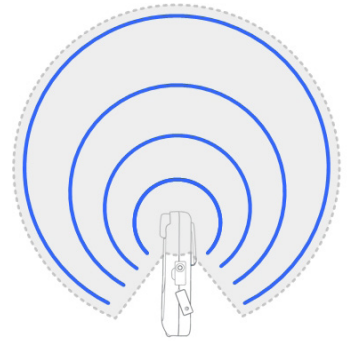
Fixed Location

Despite having no external antenna, the Tempest MasterBelt can be used in the same manner as traditional Tempest BaseStations. However, there could be an impact on the system's range depending on the chosen location and orientation.

When determining a location to place the MasterBelt, use the same approach used with Tempest BaseStations and/or Remote Transceivers. Be sure that line-of-sight from MasterBelt to standard BeltStations is maintained for optimal performance. Any obstructions can cause the RF signal to become attenuated and diminish range and performance.

MasterBelt

BeltStations
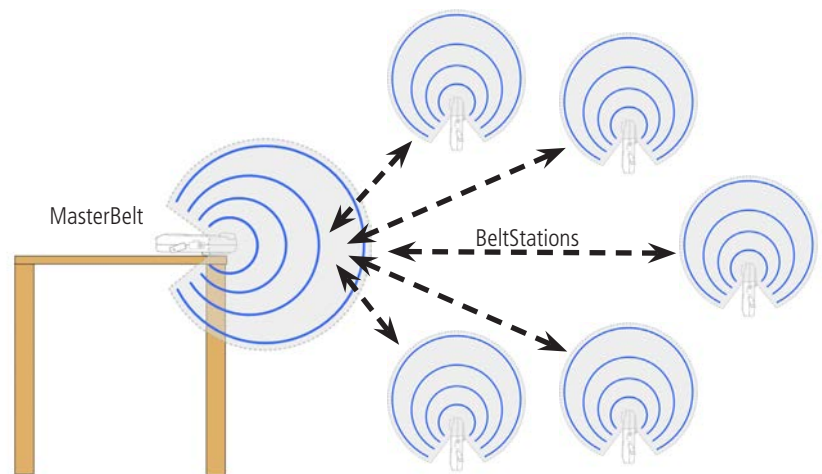
Mobile Operation

When using the MasterBelt in a mobile application, system range will be less due to body shielding.

BeltStations

MasterBelt
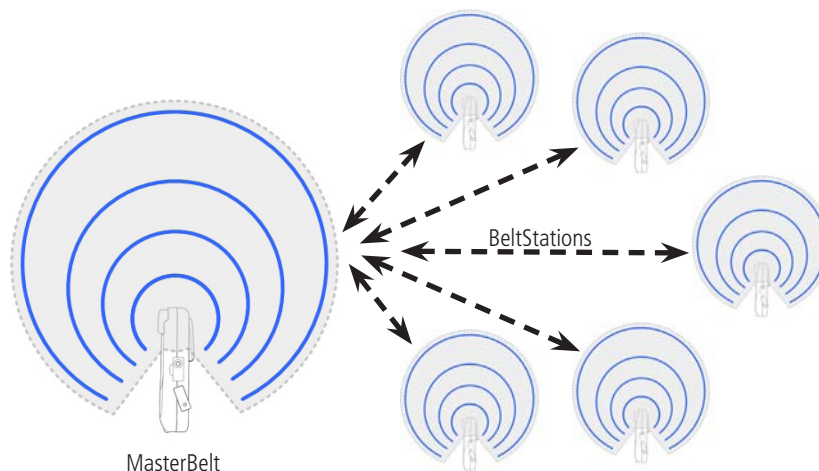
Battery Charging and Installation

With the Lithium-Polymer batteries installed in the battery compartment, plug the AC end of the supplied 5VDC Charger/Power Supply into a standard AC wall outlet. Open the rubberized access cover on the side of the MasterBelt or BeltStation and plug the USB end of the Charger/Power Supply into the USB connector. The Lithium-Polymer batteries will take approximately 2¾ hours to charge from completely empty to completely full. This time is the same with the unit turned ON or OFF. A new, fully charged battery should power a Tempest MasterBelt or BeltStation for approximately nine hours. Fast charging with the supplied fast charger requires a temperature range of 32° − 113° F.

Batteries can receive more than 500 charge cycles, and continue to maintain more than 70% of their power rating. The Tempest battery indicator will maintain its accuracy as battery life decreases.

Alternatively, remove the Lithium-Polymer rechargeable battery from the unit and insert it into the optional 5-Bay Battery Charger. The Lithium-Polymer batteries will take approximately 2½ hours to charge from completely empty to completely full. See the battery charger manual for additional details.

The Tempest MasterBelt and BeltStation Battery Compartment holds either one Tempest Lithium-Polymer rechargeable battery or three standard alkaline AA cells. Lithium-Polymer batteries are the primary power source. High quality alkaline AA cells may be used in situations where Lithium-Polymer batteries are not available or are not charged. One Lithium-Polymer battery comes standard with each Tempest MasterBelt or BeltStation. Additional Lithium-Polymer batteries may be purchased. Contact your dealer or distributor to purchase additional batteries. The Lithium-Polymer batteries supplied with your Tempest Wireless system are warranted for 90 days from the date of purchase.

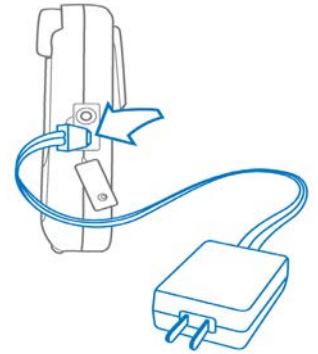Lithium-Polymer batteries offer 7+ hours of battery life in a MasterBelt and up to 9 hours of battery life in a BeltStation. The batteries recharge in approximately 2¾ hours.

Lithium-Polymer batteries ship from the factory with approximately 50% charge. It will not damage the Lithium-Polymer batteries to use them without charging them first. This will, however result in shorter run time until the Lithium-Polymer battery is fully charged. When possible, charge Lithium-Polymer batteries to full capacity to ensure full battery life prior to use.

Using (3) alkaline AA batteries can provide up to four hours of battery life. Use only high quality alkaline AA cells. This will provide enough time to fully charge the Lithium-Polymer battery.

To remove the battery door, press down on the thumb markings and pull the battery door toward the bottom of the unit.

To remove batteries from the battery compartment, turn the MasterBelt battery side down and tap the bottom of the unit on the palm of your other hand.

Please be careful to insert alkaline AA batteries according to the marked polarity. All of the alkaline AA cells must be oriented the same direction. If the battery cover does not close properly, the battery may not be inserted correctly.

MasterBelt Power ON/OFF

- The Power ON/OFF button is used to turn the MasterBelt ON or OFF.

- Press and hold the Power ON/OFF button for two seconds to turn the MasterBelt ON.

- Press and hold for four seconds to turn the MasterBelt OFF.
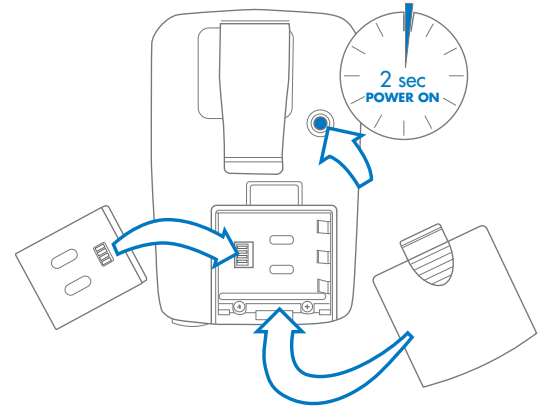
Selecting a Frequency Band

The Tempest MasterBelt 2.4GHz model is approved for license-free use in most countries. However, due to differences in radio spectrum regulations, a few countries require that 2.4GHz equipment limit or adjust its RF spectrum operation. Always determine if there are country specific frequency restrictions that apply and select the required frequency band as described below. Tempest performs RF frequency adjustment automatically when you select the appropriate frequency band from the "Tech Menu." It is only necessary to use this feature if you use Tempest in one of the countries with special frequency requirements. Otherwise, Band 1 should be used for maximum RF performance.

If the Tempest Wireless system is transported to a country with special requirements, navigate to the Radio Configuration screen in the "Tech Menu" to select the appropriate frequency band from the "Set Band" menu screen of the MasterBelt.

After changing the frequency band selection it is necessary to "pair" each BeltStation with the MasterBelt so the information can be transmitted from the MasterBelt to the BeltStation. See the "Pairing BeltStations with MasterBelt" section of this manual for more information on pairing.

Band	MHz Start	MHz End	MHz Width	Avoid 802.11 b/g
1	2400	2480	80	None
2	2400	2450	50	11
3	2423	2473	50	1
4	2431	2480	49	1, 2,
5	2400	2428	28	7, 8, 9, 10, 11
6	2423	2450	27	1, 11
7	2453	2480	27	1, 2, 3, 4, 5, 6, 7

Set Network Number and Lockout Key

The Network Number determines the frequency hopping pattern for the MasterBelt and its respective BeltStations. This is a key operational parameter and is represented by a number between 0 and 63.

Using different configurations or systems in close proximity can cause interference and diminish performance. Multiple MasterBelt configurations within the same proximity should maintain a respectable distance from one another and always utilize different network numbers.

The Lockout Key prevents systems with the same Network Number from trying to communicate with each other and is represented by a number between 0 and 255. Together, the Network Number and Lockout Key represent more than 16,000 possible combinations to minimize the possibility of inter-system interference.

The Network Numbers and Lockout Keys for Tempest Wireless are set to factory defaults before leaving the factory. Always adjust the Network Number and Lockout Key of any Tempest Wireless that are known to operate in close proximity to one another as described below. Users should confirm these settings to minimize the opportunity for improper performance issues.

Failure to set a unique Network Number and Lockout Key may result in poor system performance caused by interference from another Tempest Wireless system using the same Network Number and Lockout Key. Tempest BeltStations received their Network Number and Lockout Key's from their respective MasterBelt, therefore it is not possible to manipulate Network Numbers and Lockout Keys to gain unauthorized access to a communication channel.

Pairing BeltStations to MasterBelt

Pair BeltStation to MasterBelt:
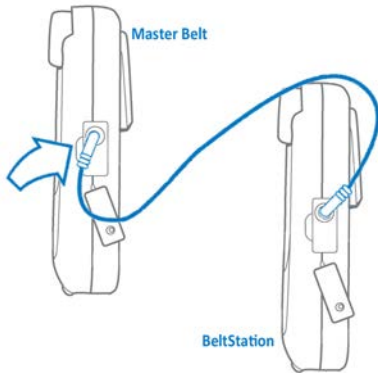
Confirm that the MasterBelt is powered ON and in Operational Mode (not in Menu Mode) and that the BeltStation is powered OFF. Confirm that the MasterBelt's Network Number and Lockout Key are adjusted as needed. See the section on Set Network Number and Lockout Key.

Plug one end of the pairing cable into the MasterBelt and the other end into the BeltStation.

The pairing cable is a standard 3.5mm (1/8 in.) Male to Male stereo patch cord.

Turn the BeltStation power ON by pressing and holding the BeltStation Power ON/OFF button for two seconds. The pairing process will begin automatically. Watch for the message "Pairing Complete" to appear briefly on the BeltStation display. The BeltStation will automatically re-initialize.

Name MasterBelt

Name the MasterBelt with a descriptive name. The MasterBelt name can include up to 14 characters. Prior to a name being assigned, a hexadecimal serial number is displayed as a default.

The MasterBelt name will appear on the LCD Display, on the BeltStation LCD display, and in the BeltStation's menu under "Select Base."

To name each MasterBelt:

1. On the MasterBelt press MENU and select "Belt Settings," then "Name BeltStation."

2. Rotate the Volume control to move the underscore "_" to select the character to be changed.

3. Press ENT and notice the underscore changes to a pointer "^" under the selected character.

4. Rotate the Volume control to scroll through the character list. Press ENT to select the new character. Characters always replace and never insert. *Repeat as needed.*

5. Press ENT to save the new name after all characters are complete. Failure to press ENT to save will clear all changes.

6. Press MENU to escape to the Operation Mode screen.

Naming the BeltStation works the same as naming the MasterBelt.

Configure BeltStation Settings

Name BeltStations

Naming BeltStations is the same as naming a MasterBelt. See the "Name MasterBelt" for more information on naming BeltStations.

Adjust Mic Gain

Set the Mic Gain properly to ensure the best audio quality. To set the Mic Gain for the BeltStation Headset:

1. Press MENU to enter Menu Mode. From the Main Menu, select "Set Controls," then "Mic Gain."

2. While at the Mic Gain screen, talk into the headset microphone at a louder than normal level and adjust the Volume control until the PEAK LEDs just start to light at the loudest parts of the audio. Press ENT to accept the changes.

Mic Gain can be set in the BeltStation without activating the Talk button. This allows private mic gain adjustment during live events.

When the Mic Gain is set too high, it is possible to induce feedback or echo. When set too low, words can be clipped by the low level noise gate or sound too quiet to other listeners. Headsets by different manufacturers or different models of headsets will require widely varying Mic Gain settings. When setting microphone gain, it is best to err toward a setting that is too low, rather than too high. This will help reduce unwanted echo in the system when that microphone is enabled.

Adjust Sidetone

1. Press MENU to enter Menu Mode. From the Main Menu, select "Set Controls," then "Mic Gain."

2. Rotate the Volume knob and scroll to "Belt Settings" on the display.

3. Press ENT.

4. Scroll to "Sidetone" and press ENT (or the Volume knob) to select.

Sidetone value is expressed in Decibels (dB). You will see a level indicator with a numeric value between -30 dB to -6 dB. Speak into the headset microphone at a typical speaking level and adjust the sound of your own voice in your headset. Pay close attention to the TALK button LED when speaking into the mic. The LED will light red when clipping is occurring. Once you've determined a proper level, press ENT to accept the changes.

Press MENU to move up one level in the menu tree. Press MENU repeatedly to exit Menu Mode and return to Operational Mode. If no other items are selected, Menu Mode automatically exits and returns to Operational Mode after about three minutes.

Adjust BeltStation Slot

The MasterBelt Slot Assignment only affects the order that the MasterBelt Operational screen displays the BeltStation information when the MasterBelt is in the Static display mode. If the MasterBelt is routinely used as a communication port or for monitoring BeltStations, it may be more convenient to always have the same user appear in the same position on the MasterBelt display. This is a personal preference setting.

In the MasterBelt "Tech Menu," choose Static or Dynamic from the "Slot Assignment" screen. Dynamic, the default, will work without any adjustment, and always displays BeltStations in alpha-numeric order by name.

Static will be the preferred choice for users who are using only one MasterBelt and want to ensure that a BeltStation that is logged in will always appear in the same location (slot) on the MasterBelt display. When selecting Static slot assignments, you must also enter the Tech Menu for each BeltStation and assign each BeltStation a different slot (1 – 5).

The MasterBelt default is for Dynamic Slot Assignment. This means that when BeltStations log in to a MasterBelt, the information about the BeltStations is displayed on the MasterBelt LCD screen in alpha-numeric order according to the name of the BeltStation. For example, "Dir" appears before "Light1," which appears before "StgMgr," but they can change slots depending on which BeltStations are turned ON. If the default settings are used, nothing is necessary.

Adjusting so that each BeltStation always appears in the same position of the MasterBelt display is a two step process:

1. Advance to the MasterBelt's "Slot Assignment" section of the "Tech Menu" and select *Static*.

2. In each BeltStation, advance to the "Base Slot" section of the "Tech Menu" and adjust each BeltStation to a different slot (1 – 5). The BeltStation designated to slot 1 will always appear on the far left of the MasterBelt display, with slot 2 appearing in the next position to the right, and so on.

    In Static Mode, if a BeltStation is not turned ON, or is logged out due to being out of range, the MasterBelt LCD display will not have a   shadow box around the respective slot number.

A Multiple MasterBelt system that uses iSelect Roaming must choose to use "Dynamic" slots to ensure that BeltStations can move from MasterBelt to MasterBelt when roaming.

Additional Settings and Features

Below are additional MasterBelt and BeltStation settings that can be set based on individual preferences. None of these adjustments are required and some features are limited to either the MasterBelt or BeltStation:

- **Select Base** - BeltStations can be paired with up to 64 MasterBelts (or BaseStations); Press MENU, select "Select Base" and choose the to enable that BeltStation to access a respective MasterBelt or BaseStation.

- **Lock Keys** - To prevent inadvertent changes. Press MENU, select "Lock Keys" to access lock options. Default setting is unlocked.

- **Menu Lock** - Allows you to lock individual users out of their respective BeltStation menu entirely. Access can only be regained by entering a 3-digit security key code (which is initially set at the MasterBelt) on each BeltStation. Default key code setting is 000 and menu lock is disabled.

- **To set key code at MasterBelt** - Press MENU, select Belt Settings>Tech Menu>Belt Key; use volume knob to scroll and set a key code. Press ENT to save.

- **To enable "Menu Lock" at BeltStation** - Press MENU, select Lock Keys>Menu Lock.

- **Battery Alert** - Enable or disable the audible "Battery Alert" tone in the headset; Press MENU, select "Battery" and Enable or Disable. Default setting is Enable.

- **LCD/LED** - Dim the LCD and LEDs to be less conspicuous in a dark environment.

- **To enable or disable "LCD Light"**: Press MENU, select LCD/LED>LCD Light.

- **To adjust the LED brightness**: Press MENU, select LCD/LED>Talk LEDs and select either High/Med/Low/Off.

- **Talk Buttons** - Set the TALK buttons to operate in Latch or Momentary mode or Disable them completely. Press MENU, select Set Controls>Talk Buttons>Talk # and select either Latch/Momentary/Disable. Default setting is Latch.

- **Channel (CH) Select** - Determine which channels are accessible and audible per MasterBelt or BeltStation. Unit must be set to access at least one channel. Press MENU, select Set Controls>Ch Select and choose from the channel configurations available. Default setting is access to all channels.

- **Mic Gain** - Refer to the section "Adjust Mic Gain" in this manual.

- **Sidetone** - Refer to the section "Adjust Sidetone" in this manual.

- **Volume Limit** - A minimum and maximum volume level can be set per MasterBelt or BeltStation. In loud environments a higher minimum volume may be desirable, while in quiet environments a lower maximum volume may be preferable. Default setting is OFF for both Min Volume and Max Volume.

- To set a minimum volume: Press MENU, select Set Controls>Volume Limit>Min Volume and use the volume knob to adjust to the desired level. Press ENT to save.

- To set a maximum volume: Press MENU, select Set Controls>Volume Limit>Max Volume and use the volume knob to adjust to the desired level. Press ENT to save.

- **Stage Announce** - The Stage Announce functionality is not applicable when using BeltStations in a MasterBelt application.

- **Call Alert** - A call alert can be used to send an audible or vibrating signal to other users' BeltStations on the same channel. A call signal is only sent when the originator's TALK button is active. Press MENU, select Set Controls>Call Alert and choose either Audible, Vibrate, Both or Disable. Default setting is Both.

- **Call Button** - The CALL button is used to trigger call alerts. Press MENU, select Set Controls>Call Button and Enable or Disable the button. Default setting is Enable.

- **Select Relay** - The relay functionality is not applicable when using BeltStations in a MasterBelt application.

- **Relay Button** - The relay functionality is not applicable when using BeltStations in a MasterBelt application.

- **Wireless ISO** - This functionality is not applicable when using BeltStations in a MasterBelt application.

- **Volume Press** - The volume controls can be set to "Volume Press" which requires a "press and turn" action to adjust the volume levels. This helps prevent inadvertent adjustments. Press MENU, select Set Controls>Volume Press and Enable or Disable this feature. Default setting is Disable.

- **Talk Tones** - This is an audible tone that can be heard in the headset when the TALK button is pressed. Press MENU, select Set Controls>Talk Tones and Enable or Disable this option. Default setting is Enable.

- **Delay Switch** - When enabled this requires the channel knobs to be pressed and held slightly longer in order to change channels. This helps prevent inadvertent adjustments. Press MENU, select Set Controls>Delay Switch and Enable or Disable this option. Default setting is Disable.

Modes of Operation

Tempest MasterBelts offer three modes of operation: Normal, Shared, and Split Mode. The mode of operation can be set by going into menu mode on the MasterBelt. Press MENU, select Mode Settings>OP Mode and choose from one of the three modes.

> **Note:**   *In addition to the MasterBelt, the BeltStations must be in "Shared" mode to use with either Shared or Split modes of operation.*

Normal Mode

In Normal mode, users can have up to 5 BeltStations (per MasterBelt). All BeltStations in this mode are in the standard operating mode, giving the user control of the channels on which they operate and dual listen/talk functionality at any given time.

- Each BeltStation has dedicated anytime talk back capability.

- BeltStation talk buttons may be operated in either momentary or latching mode.

- Sidetone may be set individually for each BeltStation from -6dB to -30dB.

- Full BeltStation telemetry is available real-time at the MasterBelt; these settings cannot be adjusted from the MasterBelt.

Normal BaseStation Mode

Talk in Normal Mode

Listen in Normal Mode

Shared Mode

The Shared mode utilizes only BeltStations set into "shared" mode via the BeltStation menu. This mode allows an unlimited number of BeltStations to listen, but only 5 shared BeltStations can talk (in momentary mode) at any given time; however, they can control the channels in which they operate.

- BeltStations are inherently full duplex, push-to-talk (talk/listen at the same time); "Shared BeltStations" are physically no different than a normal BeltStation.

- Shared BeltStations operate in momentary talk mode; no more than 5 talk paths may be used at any given time.

- Shared BeltStations are unable to provide telemetry to the MasterBelt.

- Volume of the BeltStation that is actively talking is dynamically reduced to minimize the effect of echo.

Shared BaseStation Mode

Up to 5 BeltStation Talk Paths at any Given Time

Listen to any 4 of the Channels Broadcasting

Unlimited BeltStations in Shared Mode
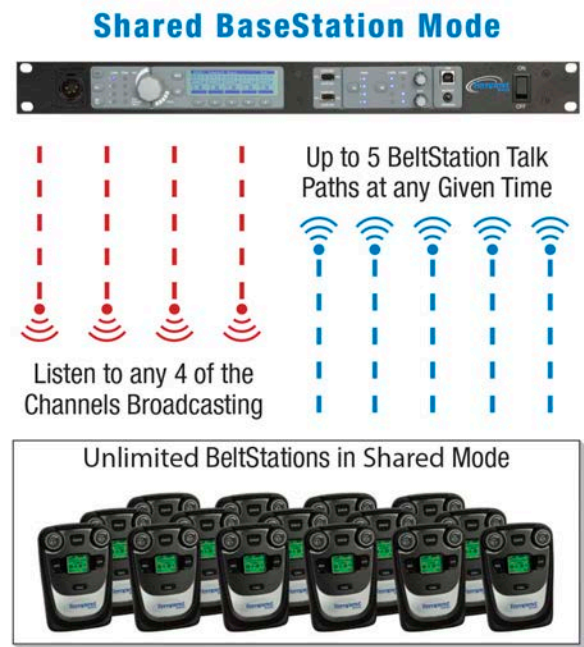
Split Mode

In Split mode, some users are operating in Normal and some in Shared mode. This mode offers the use of 4 BeltStations (per MasterBelt) that utilize the standard anytime talk back capability and allows an unlimited number of "shared" BeltStations to listen and talk on the final slot. In this mode, shared BeltStations have no control over which channel they operate on. The channel is designated at the MasterBelt.

Split BaseStation Mode

Talk in Normal Mode
Listen in Normal Mode
One BeltStation Talk at a Time
One Shared Channel
Unlimited BeltStations in Split Mode

- Unlimited number of (shared) BeltStations may be used in addition to the 4 BeltStations operating in Normal mode; BeltStations are inherently full duplex (talk/listen at the same time, push-to-talk) and are physically no different than a BeltStation operating in Normal mode.

- Shared BeltStations operate in momentary talk mode; only one shared BeltStation may utilize the talk function at any given time.

- Shared BeltStations are unable to provide telemetry to the MasterBelt. Volume of the BeltStation that is actively talking is dynamically reduced to minimize the effect of echo.
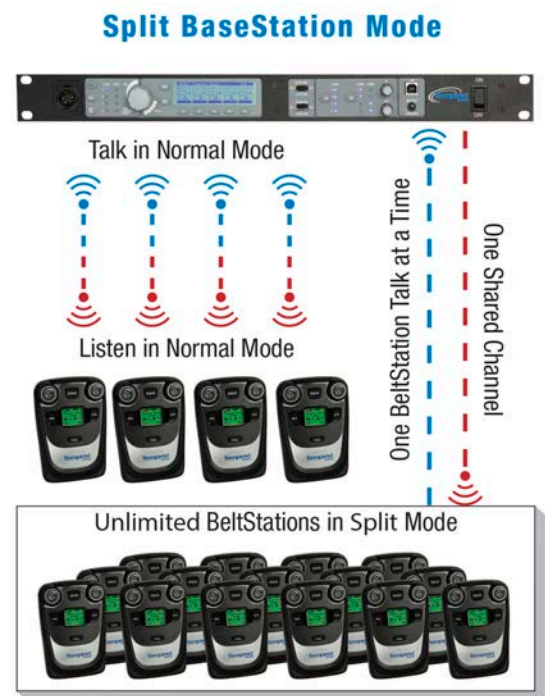
Feature or Function	Normal	Split Mode	Shared Mode
Number of Fully-Registered BeltStations (FRB)*	up to 5	up to 4	None
Number of shared belts	None	Unlimited	Unlimited
Number of talk-back paths	1 per belt	1 per Belt FRB / 1 for all shared	5 for all Belts
Full-duplex audio	Yes	Yes	Yes
Talk button may be set to latch	Yes	Yes FRB / No shared	No
Channel selectable at BeltStation	Yes	Yes FRB / No shared	Yes
Dual listen/talk	Yes	Yes FRB / No shared	Yes
Locally generated sidetone in BeltStation	Yes	Yes FRB / No shared	No
Individual sidetone adjust per BeltStation	Yes	Yes FRB / No shared	No
BeltStation sidetone heard via return audio	No	No FRB / Optional shared	Optional
Dip in BeltStation listen level when talking	No	No FRB / Yes shared	Yes
BeltStation LCD shows MasterBelt name	Yes	Yes	Yes
BeltStation LCD shows RF signal strength	Yes	Yes	Yes
Receive call	Yes	Yes	Yes
Initiate Call	Yes	Yes FRB / Yes shared, uses talk-back	Yes, uses 1 talk-back per
Telemetry info from BeltStation on MasterBelt	Yes	Yes FRB	No

*Fully-Registered BeltStations (FRB) are BeltStations that operate in anytime talk back and listen functionality and offer full telemetry to and from the MasterBelt.

Radio Compliance

This unit has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Commensurate with EIRP limits specified in FCC Rules 15.247b, this device may not be used with antennas that exceed 9dB of gain in multi-point applications.

Contains Transmitter Module FCCID: HSW-2492

Important FCC and Safety Information

1. Digital Device Statement

    1.1. Tempest BaseStations and wireless BeltStations have been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the Rules and Regulations of the U.S. Federal Communications Commission (the FCC) . Tempest products are marketed as Class A digital devices. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

    1.2. This equipment generates, uses, and can radiate radio-frequency energy. If not installed and used in accordance with all instructions, it may cause harmful interference to radio communications.

    1.3. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

2. Intentional Radiator Statement

    2.1. Tempest BaseStations and wireless BeltStations each employ a modular, low-power radio transceiver module that operates pursuant to Part 15 of the FCC's Rules. The module's FCC Identifier is HSW-2492

    2.2. Operation is subject to the following conditions:

        2.2.1. A Tempest system may not cause harmful interference to other users of the radio spectrum.

        2.2.2. Upon notification by a representative of the FCC that a Tempest system is causing harmful interference, use of the system must be suspended. Operation must not resume until the condition causing the harmful interference has been corrected

        2.2.3. A Tempest system must accept any interference received, including interference that may cause undesired operation.

    2.3. Tempest Wireless BeltStations contain an internal antenna that is not user replaceable Tempest BaseStations must be used only with approved antennas either the standard 4″ Rubber Whip Antenna supplied with every Tempest BaseStations, with the 9bBi Directional Corner Reflector Antenna that is available as an option or another approved antenna. Use of any non-approved antenna, or any modification to any part of a Tempest unit, violates the Tempest System's warranty, and also constitutes a violation of the FCC's Rules and Regulations and of § 302 of the Communications Act of 1934, as amended.

    2.4. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

3. RF-Exposure Statement

3.1.   The FCC has adopted limits on the exposure to radio-frequency energy from devices such as the Tempest system. The FCC adopted these limits by drawing upon the efforts of independent scientific organizations that have engaged in periodic evaluations of the scientific literature. The FCC's standards are intended to assure the safety of all persons, regardless of age or health.

3.2.   Tempest has been designed and manufactured to comply with the FCC's exposure limits. When used with approved antennas, and when used in accordance with all instructions, the Tempest system complies with those exposure limits.

3.3.   Tempest BeltStations have been designed to be worn and used in close proximity to the human body, what the FCC calls a "portable" use. The BeltStation unit complies with FCC exposure limits for portable use.

3.4.   To ensure compliance with FCC exposure limits, no person must come closer than 26 cm (ten inches) from either the standard 4" Rubber Whip Antenna, the optional Directional Corner Reflector Antenna, or other approved antenna whichever is used with the Tempest BaseStation.

Additional Compliance and Safety Information

1.   Canada, Industry Canada (IC) Notices

1.1.   Class B digital circuitry of this device complies with Canadian ICES-003.

1.2.   This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

1.3.   Under Industry Canada regulations, the radio transmitter(s) in this device may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Please check our website for the latest system specifications and certifications.

Warranty Information

Limited Warranty

CrewCom products are warranted to be free from defects in materials and workmanship for a period of two years from the date of sale to the end user, under the following conditions:

- • First year of warranty included with purchase.

- • Second year of warranty requires product registration on the Pliant website.

Tempest professional products will carry a two-year product warranty.

All accessories carry a one-year warranty.

The sole obligation of Pliant Technologies, LLC during the warranty period is to provide, without charge, parts and labor necessary to remedy covered defects appearing in products returned prepaid to Pliant Technologies, LLC. This warranty does not cover any defect, malfunction, or failure caused by circumstances beyond the control of Pliant Technologies, LLC, including but not limited to negligent operation, abuse, accident, failure to follow instructions in the Operating Manual, defective or improper associated equipment, attempts at modification and/or repair not authorized by Pliant Technologies, LLC, and shipping damage. Products with their serial numbers removed or effaced are not covered by this warranty.

This limited warranty is the sole and exclusive express warranty given with respect to Pliant Technologies, LLC products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose. ANY AND ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY. NEITHER PLIANT TECHNOLOGIES, LLC NOR ANY AUTHORIZED RESELLER WHO SELLS PLIANT PROFESSIONAL INTERCOM PRODUCTS IS LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

Parts Limited Warranty

Replacement parts for Pliant Technologies, LLC products are warranted to be free from defects in materials and workmanship for 120 days from the date of sale to the end user.

This warranty does not cover any defect, malfunction, or failure caused by circumstances beyond the control of Pliant Technologies, LLC, including but not limited to negligent operation, abuse, accident, failure to follow instructions in the Operating Manual, defective or improper associated equipment, attempts at modification and/or repair not authorized by Pliant Technologies, LLC, and shipping damage. Any damage done to a replacement part during its installation voids the warranty of the replacement part.

This limited warranty is the sole and exclusive express warranty given with respect to Pliant Technologies, LLC products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose. ANY AND ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY. NEITHER PLIANT TECHNOLOGIES, LLC NOR ANY AUTHORIZED RESELLER WHO SELLS PLIANT PROFESSIONAL INTERCOM PRODUCTS IS LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

Technical Support

Information about Pliant's Technical Support and Repair Procedures is provided below.

Contacting Us

Pliant Technologies, LLC support and service personnel are ready to help you with any issues you may have. All requests and questions should be directed to our Customer Service department via phone, fax, or email. Additional product support documentation is available for reference at plianttechnologies.com/support.

Customer Service Department
Pliant Technologies, LLC
Phone +1.334.321.1160
Toll-Free 1.844.475.4268 or 1.844.4PLIANT
Fax +1.334.321.1162
Email: customer.service@plianttechnologies.com

Sending Equipment for Repair

Do not send any equipment directly to the factory without first obtaining a Return Material Authorization (RMA) Number from a dealer or from Pliant. Obtaining an RMA Number will ensure that your equipment is handled promptly. In addition, Pliant personnel will provide a Service Request Form (SRF) for completion and return via email or fax.

All shipments of Pliant products should be made via UPS, or the best available shipper, prepaid and insured. The equipment should be shipped in the original packing carton; if that is not available, use any suitable container that is rigid and of adequate size to surround the equipment with at least four inches of shock-absorbing material. All shipments should be sent to the following address and must include a Return Material Authorization Number:

Pliant Technologies, LLC Customer Service Department
Attn: Return Material Authorization #
205 Technology Parkway
Auburn, AL 36830-0500

Product returns should follow this same procedure.

MasterBelt Menu

LOCK KEYS

Lock Keys
- Lock Buttons
- Volume
- Talk

BATTERY

Battery Alert
- Enable
- Disable

LCD/LED

LCD Light
- Enable
- Disable

Talk LEDs
- High
- Med
- Low
- Off

SET CONTROLS

Talk Buttons

A
- Latch
- Momentary
- Disable

B
- Latch
- Momentary
- Disable

Channel Select
- A/B Dual Listen
- A or B Listen
- Ch A Only
- Ch B Only

Mic Gain
- (Scroll To Adjust)

Sidetone Volume
- (Scroll To Adjust)

Volume Limit

Min. Volume
- (Scroll To Adjust)

Max Volume
- (Scroll To Adjust)

Call Alert
- Audible
- Vibrate
- Both
- Disable

Call Button
- Enable
- Disable

Wireless ISO
- Enable
- Disable

Volume Press
- Enable
- Disable

Talk Tones
- Enable
- Disable

Delay Switch
- Enable
- Disable

BELT SETTINGS

Name Beltstation
- Belt Name

Tech Menu
- Proceed
- Exit

Radio Config
- Network Number
- Lockout Key
- Band
- Radio Info

Security
- Disabled

Diagnostics
- System Information

Set Defaults
- Factory Defaults
- Clear Memory
- Reset Radio

Slot Assignment
- Static
- Dynamic

Belt Key
- (Scroll to Adjust)

MODE SETTINGS

OP Mode
- Normal Mode
- Split Mode
- Shared Mode

Split Channel
- A
- B

BeltStation Menu

SELECT BASE
Select Base
- Current Base
- BaseStation 1
- BaseStation 2
- BaseStation 3...

ROAMING
Roaming Group
- Enable Roaming
- BaseStation 1
- BaseStation 2
- BaseStation 3...

Roaming Bias
- High
- Medium
- Low

BATTERY
Battery Alert
- Enable
- Disable

LOCK KEYS
Lock Keys
- Lock Buttons
- Volume
- Talk
- Menu Lock
- Switch Base

LCD/LED
LCD Light
- Enable
- Disable

Talk LEDs
- High
- Med
- Low
- Off

SET CONTROLS
Talk Buttons
- A
  - Latch
  - Momentary
  - Disable
- B
  - Latch
  - Momentary
  - Disable

HW Call on Talk
- Enable
- Disable

Either/Or
- Enable
- Disable

Channel Select
- A/B Dual Listen
- A or B Listen
- Ch A Only
- Ch B Only

Mic Gain
- [Scroll To Adjust]

Sidetone Volume
- [Scroll To Adjust]

Volume Limit
Min. Volume
- [Scroll To Adjust]

Max Volume
- [Scroll To Adjust]

Stage Announce
- Audio
  - Momentary
  - Disable
- Relay
  - Enable
  - Disable

Call Alert
- Audible
- Vibrate
- Both
- Disable

Call Button
- Enable
- Disable

Select Relay
- Relay 1
- Relay 2
- Relay 3
- Relay 4
- Relay 5
- None

Relay Button
- Talk A
- Talk B
- Ch A
- Ch B
- Stage
- Enter
- Low Battery 10%
- Call

Wireless ISO
- Enable
- Disable

Volume Press
- Enable
- Disable

Talk Tones
- Enable
- Disable

Delay Switch
- Enable
- Disable

Program Volume
- Off
- Absolute
- Relative

BELT SETTINGS
Name Beltstation
- Belt Name

Tech Menu
- Proceed
- Exit

Radio Config
- Radio Information

Security
- Disabled

Diagnostics
- System Information
- Scan Debug
  - Show/Hide Debug Info

Set Defaults
- Restore Factory Defaults
- Clear Memory

Base Slot
- [Scroll To Adjust]

MODE SETTINGS
Normal/Shared
- Normal
- Shared

Shared Audio
- Audio Off
- Audio On

DELETE BASE

Note: BeltStation relays and program volume are not available features when used with a MasterBelt.

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Tempest
BY PLIANT

Wireless for the Real World

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