

CERTIFICATION INFORMATION

INFORMATION TO USER

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

FCC RF EXPOSURE STATEMENT

To satisfy RF exposure requirements, this device must not be co-located or operating in conjunction with any other antenna or transmitter.

This product should be used only with body worn accessories that do not contain metal. This product should only be used with approved body worn accessories.

INFORMATION FOR CANADIAN USERS (IC NOTICE)

To reduce potential radio interference to other users, this antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than required for successful communication.

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.

Anchor Audio Customer Service

800/262-4671 310/784-2300

TECHNICAL SPECIFICATIONS

PORTACOM PRO SYSTEM

Range (line of sight)	700' / 213 m
Encryption	256 personal codes
FCC License	None required
Channels	16
Charger	SVDC - 2A
Frequency	2416 - 2449 MHz
Output Power	100mW
Battery Life	7 - 8 hours normal use
Batteries	Two "AA" NiMH rechargeable

FCC ID: J8ZBPW-300

IC: 6631A-BPW300



(Specifications subject to change without notice)

BPW-300 - Belt Pack

Connector	6-pin mini XLR, gold tipped, locking
DC Reqs.	SVDC - 500mA
Dimensions	4.4 x 2.7 x 1.1" / 11.2 x 6.9 x 2.8 cm
Weight	6.45 oz / 0.18 kg

HW-300 - Dual-Earpiece Headset

Connector	6 pin mini XLR, gold tipped, locking, TQ
Mic Type	Electret condenser
Dimensions	3.5 x 7.4 x 7.9" / 8.9 x 18.8 x 20.1 cm
Weight	16 oz / 0.45 kg

For a video demonstration of how to use your PortaCom PRO wireless intercom system, go to:

www.anchoraudio.com/portapro.php

Click on "SETUP VIDEOS" to see step-by-step instruction.



PortaCom PRO PATENT PENDING

Wireless Intercom System

OWNER'S MANUAL



CONTENTS

GETTING STARTED	2
WHAT IS PORTACOM PRO?	2
BELT PACK OPERATION	3
BASIC SYSTEM OPERATION	4
DISTANCE BETWEEN BELT PACKS	4
MICROPHONE GAIN ADJUSTMENT	4
U.S.E. (USER SELECTABLE ENCRYPTION)	4
RECHARGEABLE BATTERIES	6
HEADSET OPERATION	7
TROUBLE SHOOTING PORTACOM PRO	7
TECHNICAL SPECIFICATIONS	8



Anchor Audio, Inc.

Portable Sound Systems • Torrance, California

A MESSAGE FROM THE OWNER

Thank you for choosing an Anchor Audio wireless intercom system. Our products incorporate *state-of-the-art* design and the finest quality of materials and workmanship. We're proud of our products and appreciate the confidence which you have shown by selecting an Anchor system.

I hope you'll take a few minutes to review this manual. We've incorporated several unique features into our products, and your knowledge of how to use them will enhance the performance and your enjoyment of the system.

David Jacobs, President
on behalf of all Anchor Employees

GETTING STARTED

Please check your new unit carefully for any damage which may have occurred during shipment. Each Anchor product is carefully inspected at the factory and packed in specially designed boxes for safe transport.

Notify the freight carrier immediately of any damage to the shipping box or product. Repack the unit in the original box and wait for inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

NOTE: All damage claims must be made with freight carrier!

RETURNING SYSTEMS FOR SERVICE OR REPAIR

For service or repair, please contact the dealer where system was purchased or Anchor Audio Customer Service (800/262-4671 or 310/784-2300) to obtain a RA (Return Authorization) number. All shipments to Anchor Audio must include RA number and be shipped prepaid. C.O.D. shipments will be refused and returned at your expense.

Customers outside the USA must contact dealer where system was purchased for service or repair instructions.

IMPORTANT: Save the shipping box & packing materials, they were specially designed to ship your unit!

WARRANTY REGISTRATION & INFORMATION

Please go to our website (www.anchoraudio.com) and select "Warranty Registration". Completing this online registration form will activate your limited two-year warranty.

Warranty is void if the belt pack case or headset has been opened, screws have been removed or there is evidence of tampering. The case screws are tamper proof and will be damaged if you attempt to remove them.

WHAT IS PORTACOM PRO?

PortaCom PRO is a wireless full duplex intercom system that's easy to set up and easy to use. The belt packs communicate directly to each other via a wireless signal that can travel up to 700 feet. If there are solid obstacles between two belt pack users, such as a concrete wall, the range will be diminished. Two people can talk at once into their microphones which are connected to the headsets. An unlimited number of people on 15 different channels can listen via their headsets. If a third person attempts to talk over the other two, their conversation will be locked out until one of the other two stops talking.

HEADSET OPERATION

PortaCom PRO noise canceling headsets feature a dual ear piece design for maximum comfort. Our headsets also include 6 pin mini-XLR gold tipped connectors, adjustable microphones and electret condenser type microphone elements.

OPERATION

1. Plug the headset connector into the belt pack headset jack
2. Turn on power & adjust volume on each belt pack in use
3. Select a transmission channel for the group, 1 thru 16 (9 is reserved for All Call)
4. Set each belt pack in the group to the same channel
5. Adjust headset boom so the microphone is located near the mouth
6. Depress the PTT button to start talking, the system is voice activated



HW-300
Dual-Earpiece Headset

For a video demonstration of how to use your PortaCom PRO wireless intercom system, go to:

www.anchoraudio.com/portapro.php

Click on "SETUP VIDEOS" to see step-by-step instruction.

TROUBLESHOOTING PORTACOM PRO

CAN'T HEAR PERSON SPEAKING? Turn up the listen volume control using the thumbwheel on the side of the belt pack. If you are in an extremely loud environment, you will need to use the dual muff headset with noise canceling properties. If you still can't hear the person speaking, you must be out of range and need to move closer. Check USE switches/use PTT to ensure that unit is transmitting.

MICROPHONE NOT PICKING UP YOUR VOICE? First, check that you have pushed down the PTT button one click and you are in active mode, note the fast flashing light. Move the mic closer to your mouth and speak up clearly. You can also adjust the VOX by turning up the mic gain knob.

BACKGROUND NOISE TRANSMITTING ACROSS SYSTEM? Stay in listen mode until you are ready to speak. Then, push and hold the PTT button to ensure your system is activated only when you speak.

TRANSMISSION IS WEAK? Make certain the batteries are charged by checking for the green battery light. If batteries are weak, and you need to keep going, either plug the unit into the charger and a wall outlet, or replace the rechargeable batteries with disposable alkaline batteries.

PROPER INTERCOM ETIQUETTE! The PortaCom PRO is designed to handle two people speaking at once. Use proper intercom etiquette and wait to break into the conversation when the two people have stopped talking. If multiple users want to jump into and out of the conversation, use PTT (push to talk).

RECHARGEABLE BATTERIES

Each PortaCom PRO belt pack comes with two rechargeable AA NiMH batteries installed in the battery compartment located on the back of the belt pack. If the LED Indicator light turns red or your transmission is becoming weak, the batteries are low and need charging. You may continue using the belt pack while it is charging.

CHARGING THE BATTERIES

1. Turn the belt pack off (you may leave system on during charging if you wish to continue use)
2. Plug the included AC-300 power adapter into the jack on the side of belt pack and an AC outlet
 - Amber light indicates the batteries are charging
3. Allow belt pack to charge for 7 hours to reach full capacity (charge time will increase if system is in use)
 - Green light indicates the batteries are fully charged

NOTE: Battery Life When Fully Charged - 7 to 8 Hours Normal Use.

Users who must leave their charger plugged in (emergency preparedness crews, etc.) are advised to replace the rechargeable batteries once every 12 months.

AA alkaline batteries can be substituted for the rechargeable batteries. However, connecting the charger when alkaline batteries are installed could seriously damage your belt pack!

CAUTION: DO NOT ATTEMPT TO CHARGE ALKALINE BATTERIES.

CAUTION: WHEN STORING YOUR SYSTEM IN THE PORTACOM PRO HARD CASE, PLACE EACH BELT PACK INTO ITS STORAGE SLOT CAREFULLY. TURNING THE THUMB WHEEL DURING INSERTION WILL TURN THE POWER ON AND DRAIN THE BATTERY.

BELT PACK OPERATION

The BPW-300 belt pack has a 6 pin mini-XLR headset jack, channel selector, universal LED indicator light and the PTT (Push To Talk) button. Located on the side is the POWER/VOLUME CONTROL thumb wheel, the battery compartment is on the back.

CHANNEL SELECTOR

To create a belt pack group, each group member must set their Channel Selector to the same number. The PortaCom PRO has 15 available channels to choose from, so you can set up 15 separate groups.

1. Select an available transmission channel for the group - 1 thru 16

NOTE: Channel 9 is not available for a group, it is reserved as the All Call channel.

2. Set each belt pack in a group to the same channel

EXAMPLE: Athletic Department

The head coach assigns the offense channel 6, defense channel 11 & special teams channel 8. You now have the ability to speak to one group at a time by selecting their channel. If you need to speak to all groups at once select channel 9, the All Call channel.

LISTEN ONLY, ACTIVE & PUSH TO TALK MODE

- Listen Only Mode: When the belt pack is powered on the LED Indicator light will show a slow flashing light, you are in Listen Only Mode. Use this setting when you don't wish to talk on the system, but merely listen.
- Active Mode: Press the PTT button once for Active Mode, the LED Indicator light will flash quickly. Active Mode is voice activated, simply speak into your mic to be heard by all of the other users in your group. Press the PTT button again to return to Listen Only Mode.

CAUTION: Excessive background noise can broadcast into mic & trigger voice activation.

- Push To Talk Mode: Press & hold the PTT button for Push To Talk Mode, like a walkie talkie, the mic will only pick up your voice when the button is held down. Release the button to return to Listen Only Mode. Use when in loud environments so background noise won't continually broadcast over your mic.

NOTE: Push To Talk Mode is preferred if many users are jumping in & out of the conversation.

ALL CALL CHANNEL

The All Call feature allows one user to speak to everyone in every group on the system simultaneously regardless of their channel selection. When All Call is engaged the belt pack LED Indicator light will turn amber, this alerts all users that All Call is in use.

1. Select channel 9 to engage the All Call feature
2. When the All Call operator stops speaking, all other users revert to their original channel selection
3. Select a different channel (other than 9) to disengage All Call

BASIC SYSTEM OPERATION

IMPORTANT: Batteries Are Shipped Fully Charged!

1. Charge installed NiMH batteries w/ included charger
2. Select a transmission channel on the belt pack (1 thru 16, 9 is reserved for All Call channel)
3. Plug headset connector into jack on belt pack
4. Turn on power & adjust volume w/ thumbwheel on side

Slow flashing light indicates power on / Listen Only Mode

5. Press PTT button once for Active Mode
6. Press & hold PTT button for Push To Talk Mode
4. Set each belt pack in a group to the same channel

NOTE: Repeat the steps above for each belt pack/user.

SYSTEM RANGE

Under ideal conditions the distance between belt packs can be up to 700' line of sight. However, system performance can be affected by many external sources. To minimize the effects of interference:

- Keep the distance between belt packs as short as possible
- Make sure that there are no obstructions between belt packs
- Maintain visual contact with all users in the group

CAUTION: Attempting to operate the PortaCom PRO through or around walls, through ceilings and/or around metal objects will reduce system range and clarity.

ADJUSTING MICROPHONE GAIN

Adjust the microphone sensitivity (gain level) to compensate for individual users voice levels and surroundings. For soft voices or when whispering raise sensitivity, lower it if you need to shout.

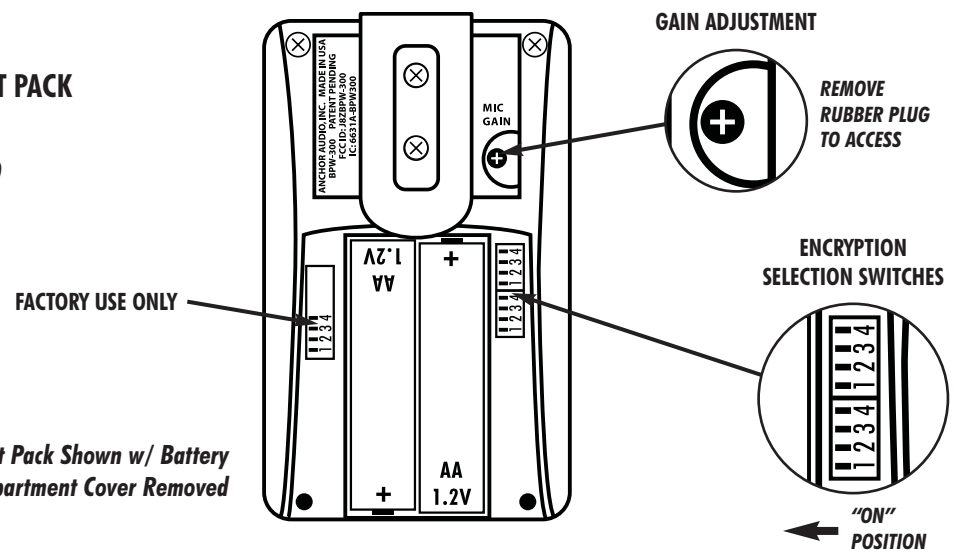
1. Remove rubber plug on back of belt pack to access dial
2. Using a small screwdriver turn the VOX dial clockwise to raise mic sensitivity, counterclockwise to lower
3. Replace plug to keep dirt & debris out of unit

NOTE: Lower gain level if your voice sounds distorted.

PORTACOM PRO BELT PACK TOP & BACK VIEW

Model Shown: BPW-300

**Belt Pack Shown w/ Battery
Compartment Cover Removed**



LED INDICATOR - OPERATING STATUS

Slow Flash: Listen Only Mode
Fast Flash: Active Mic Mode (talk or listen)
Solid On: Transmitting/Receiving

LED INDICATOR - BATTERY STATUS

Green: Battery Good
Red: Battery Low/Charging Error
Amber: Charging Battery/All Call Mode

CHANNEL SELECTOR

(set to match other belt packs)

PUSH TO TALK BUTTON

Turn Unit On w/ Thumbwheel: Listen Only mode
Single-Click: Lock In Active Mic (talk or listen)
Single-Click Again: Switch to Listen Only Mode
Push & Hold: Push to Talk Mode

HEADSET JACK
(plug in headset)

ALL CALL CHANNEL
(set to channel 9 for All Call)

U.S.E. (USER SELECTABLE ENCRYPTION)

PortaCom PRO comes with a simple, easy to use encryption method to make certain no one can listen in on your conversations. All belt packs are shipped with the encryption settings in the OFF position, this allows all your belt packs to operate together out of the box. Follow the instructions below to enable encryption.

SETTING USER ENCRYPTION

1. Remove the battery compartment cover by sliding the door down
2. Locate the opening that houses eight small selection switches (see above)
3. With a small screwdriver (included) set the ON/OFF settings of the eight switches to any pattern you desire
4. Set the same ON/OFF pattern to the switches on each belt pack in the group so they can communicate with each other
5. Turn power for each belt pack off and back on the engage encryption
6. Test all of the units to verify that the code has been set correctly

NOTE: Belt packs must be powered off and on every time encryption settings are changed for proper operation.