

# PERFORMANCE SERIES WIRELESS

## AP41 & AP42 USER GUIDE



AUDIX.



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## SAFETY INSTRUCTIONS

**Please read this instruction manual to ensure proper use and care of your system.**

### Quick Safety Tips

Unplug the receiver from the wall socket when not in use

Use only with the power supply provided

Keep away from water, moisture, heat generating devices and direct sunlight

Clean only with dry cloth

Do not block the receiver from ventilation

Use only with accessories produced by Audix

Operate and store in a safe temperature range 0°C (32°F) - 43°C (110°F)

## CERTIFICATIONS

This product complies with FCC Part 74 regulations and conforms to CE standards.

Documentation available upon request. Operation of wireless devices may require a license in your area. Please comply with regulations pertaining to your area. Users of wireless microphones in the USA, on frequencies listed under FCC part 74.801, must comply with eligibility and licensing requirements under FCC Part 74.834.



## INTRODUCTION

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Congratulations on the purchase of the Performance Series Wireless system from Audix! Your system is jam packed with features that will enable you to fine-tune the system as needed. However, the best part of our design is that the system is simple to use. For most applications, simply refer to the Quick Set Up Guide to get up and running (pgs 6-9).

Please take a few minutes and read through this manual in order to familiarize yourself with the system components and the menus. The menus are very intuitive and most questions about operating the system will be answered by understanding the structure of the menus.

# QUICK SET UP GUIDE

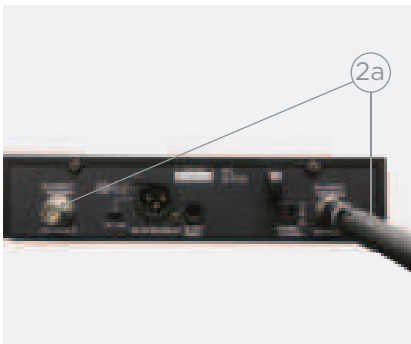
Follow these instructions to get up and running in very little time.



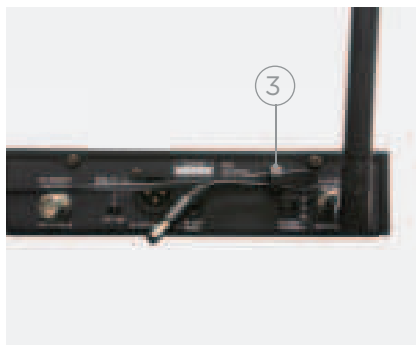
**1. Install 2 AA batteries** in the handheld transmitter and bodypack. Refer to the diagrams on the equipment to ensure batteries are positioned correctly.

**a.) Handheld transmitter:** Unscrew bottom portion of the transmitter to expose battery holder. Push the first battery up through the housing with negative side up. Place the second battery below the first with negative side up. The batteries are spring loaded and will settle into place. Screw the cover back into place.

**b.) Bodypack transmitter:** With bodypack face down, push the spring release to the right to open. Place left battery negative side up, and the right battery negative side down. Snap the battery cover to close.



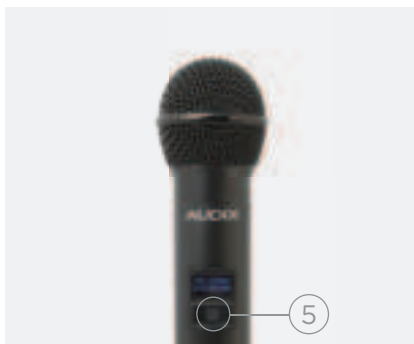
**2. Attach antennas** to the back of the receiver. Keep each antenna straight while screwing it into the connector (2a). After attached, bend antennas into position (2b).



**3. Connect power supply.** Loop cable through the metal strain relief as shown above prior to connecting power supply to receiver. Plug into power outlet.

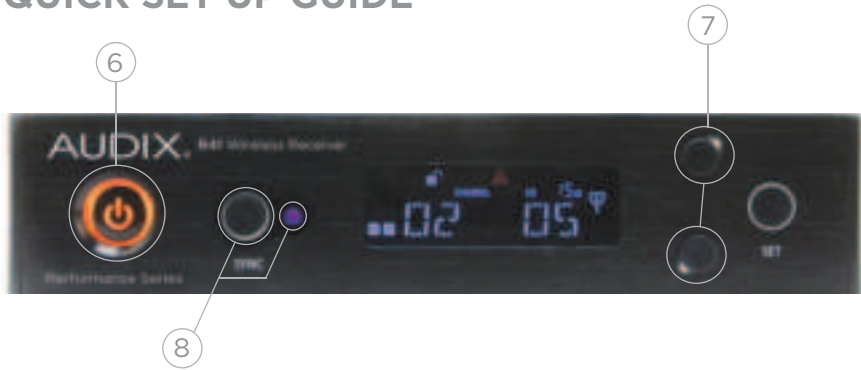


**4. Connect receiver** to mixer or amplifier. Make sure audio levels on the mixer are muted or off. For guitar, use the 1/4" AF output (line level unbalanced, 4b). For all other applications use the XLR output (mic level, 4a).



**5. Turn on transmitter.**

# QUICK SET UP GUIDE



## 6. Turn on receiver.

7. On receiver, press and hold the UP or DOWN button to trigger Scan for a clear Group/Channel. After 8-20 seconds a "Group/Channel" will appear on the receiver.

8. Sync handheld transmitter to receiver. Unscrew the battery cover and locate the window housing infrared device. From a close proximity (6 inches / 152.40 mm) point the infrared window (located on the opposite side of the batteries) towards the infrared sensor next to the SYNC button on the receiver and press the SYNC button. Within a few seconds the transmitter Group/Channel and Frequency will match the receiver.



9. Sync bodypack transmitter to receiver. Locate the window housing infrared device on the front of the bodypack. From a close proximity (6 inches / 152.40 mm) point the window below the LCD screen on the bodypack towards the infrared sensor next to the SYNC button on the receiver and press the SYNC button. Within a few seconds the transmitter Group/Channel and Frequency will match the receiver.





## MULTIPLE SYSTEMS

Setting up multiple systems utilizes the Scan – Sync functions described to the left. In general, compatible channels for synchronized use are organized by Group. (See the Group/Channel chart on page 30.)

Be sure all receivers and transmitters are powered OFF.

**1. Power up receiver #1 and matching transmitter:** Run the standard Scan and Sync routine as described in the previous section (Quick Set Up Guide). Leave the system ON. Move the transmitter at least 6 feet (2 meters) away from the receiver.

**2. Power up receiver #2 and matching transmitter:** Run the Scan and the receiver will find a clear channel in the same Group as the previous system. Sync the transmitter to the receiver.

Adding more systems will follow the same procedure as above.

**IMPORTANT:** Be sure that all transmitters are at least 6 feet (2 meters) from each other as you set up multiple systems.

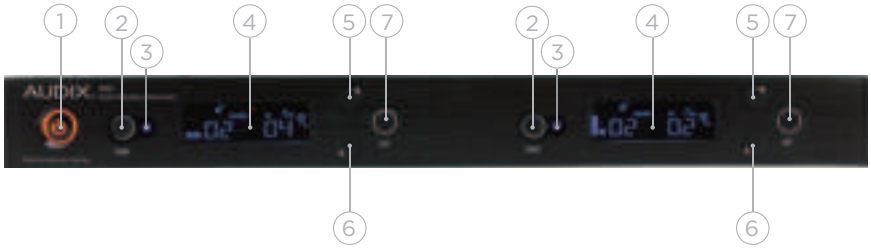
**Hint:** If you are using more than one frequency band, be sure to set up all systems in the same band before moving to the next.

# FRONT PANEL

## R41 SINGLE RECEIVER



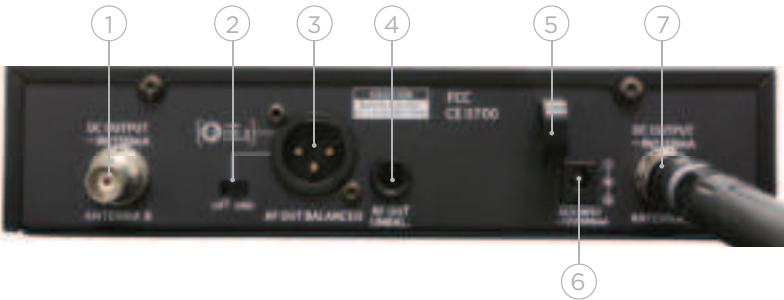
## R42 DUAL RECEIVER



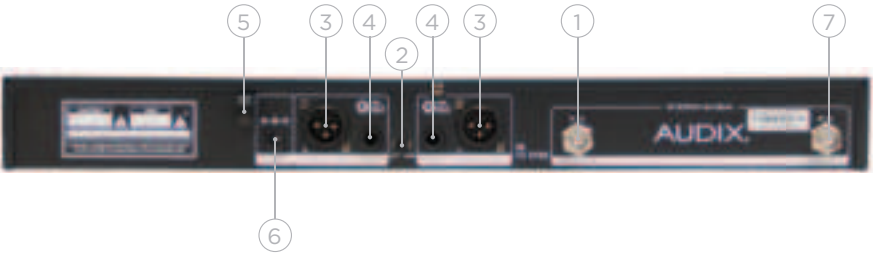
- 1 POWER switch. Press for instant ON. Press and hold for 3 seconds to turn system OFF.
- 2 SYNC button. Automatically synchronizes the transmitter to the receiver.
- 3 Infrared sensor. Sends data from receiver to transmitter when SYNC function is engaged.
- 4 High contrast LCD display. See Menu Functions on page 16 for more details.
- 5 UP button. Only active in Menu mode. Scrolls forward through menus. Also acts as hot key for autoscan when pushed and held.
- 6 DOWN button. Only active in Menu mode. Scrolls backwards through menus. Also acts as hot key for autoscan when pushed and held.
- 7 SET button. Press and hold to enter the Menu mode. Also used to save settings, exit the Menu mode and toggle between "Frequency" and "Group/Channel" for quick reference.

# BACK PANEL

## R41 SINGLE RECEIVER

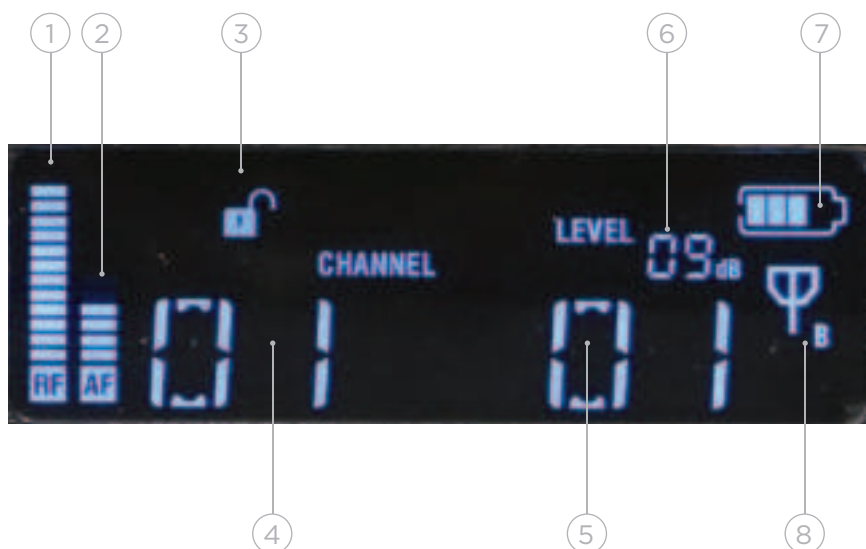


## R42 DUAL RECEIVER



- 
- |  |   |
|--|---|
| 1 BNC connector for Antenna B.   | 5 Metal strain relief. Allows power cable to loop through for added security. |
| 2 Ground lift switch to help eliminate ground loops or noise from other sources. | 6 DC power jack for external power supply (12 V).                             |
| 3 Mic level balanced XLR output for connecting receiver to an audio mixer.       | 7 BNC connector for Antenna A.  |
| 4 Unbalanced 1/4 inch output for connecting receiver to an amplifier.            |   |

## R41 & R42 LCD DISPLAY



- 1 RF (Radio Frequency). Displays RF signal strength.
- 2 AF (Audio Frequency). Displays audio signal strength.
- 3 Indicates whether receiver is unlocked or locked for security.
- 4 Indicates active group when display is in Channel mode. Indicates active frequency when display is in Frequency mode.
- 5 Indicates active channel when display is in Channel mode. Indicates active frequency when display is in Frequency mode.
- 6 Displays Level (receiver gain) or Squelch (see Menu Functions, pg 14).
- 7 Battery level.  
4 bars = Up to 14 hours  
3 bars = 9 hours  
2 bars = 7 hours  
1 bar = 3 hours  
0 bars = 1 hour
- 8 Active antenna indicator (A or B).

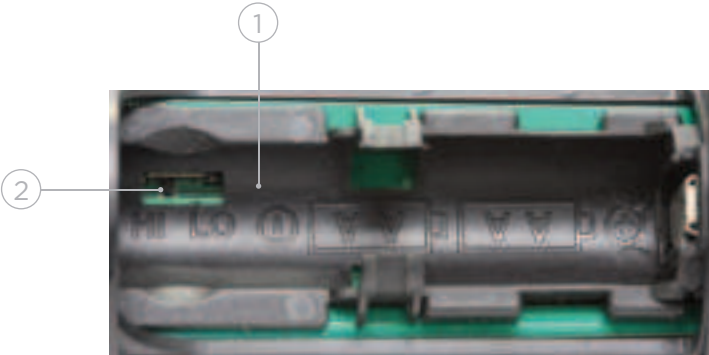
# H60 TRANSMITTER - HANDHELD

The H60 is a 64 MHz wide spectrum transmitter. It covers both A and B frequency groups (pg 28).



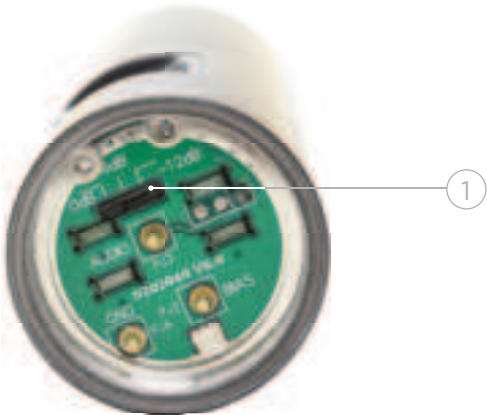
- |  |  |
|--|--|
| <b>1</b> Grill ball. Protects capsule. Replaceable part.                                       | <b>5</b> Power ON/OFF and MUTE button.   |
| <b>2</b> Capsule housing. Threads on to body of the transmitter housing. Interchangeable part. | <b>6</b> Battery cover. Must be opened to replace batteries or change transmitter power selection. |
| <b>3</b> Transmitter housing. Contains PCB boards and electronics for RF transmission.         | <b>7</b> Transmitter antenna housing.  |
| <b>4</b> LCD display. Indicates "Group/Channel", "Frequency" and "Battery Status".             | <b>8</b> Power dip switch (pg 14).   |
|  | <b>9</b> Battery compartment.  |
|  | <b>10</b> Infrared sync circuit.   |

# H60 TRANSMITTER - BATTERY COMPARTMENT



- 1 Houses AA batteries (see Quick Set Up Guide for installation instructions, pg 6).
- 2 Dip switch to choose between 30 Milliwatt (HI) and 10 Milliwatt (LO) power RF power output.

# H60 TRANSMITTER - TOP



- 1 Dip switch with choice of 3 output gain settings for capsule (0 dB, -6 dB, -12 dB).

# B60 BODYPACK - FRONT PANEL

The B60 is a 64 MHz wide spectrum transmitter. It covers both A and B frequency groups (pg 30).



Top



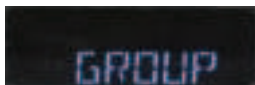
Bottom



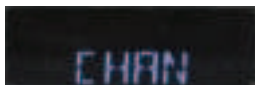
- |   |  |
|---|--|
| 1 Infrared panel. Point towards the SYNC button on the receiver when locking the transmitter to the receiver. | 5 Antenna. Plug into bodypack and thread on and off. Replaceable part. |
| 2 3-pin connector for microphone cable or guitar cable.   | 6 SET button. Use to enter Menu and Save settings.                     |
| 3 LCD Display. Indicates "Group/Channel", "Frequency" and "Battery Status".                                   | 7 UP button. Scrolls forward through menu.                             |
| 4 Power ON/OFF and MUTE button.   | 8 DOWN button. Scrolls backwards through menu.                         |
|   | 9 Battery compartment.   |

# RECEIVER OPERATING INSTRUCTIONS

By understanding the menu structure it is easy to operate and make adjustments to the system.



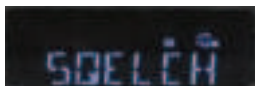
1. **GROUP (1-10)**



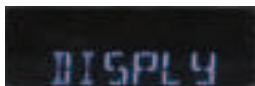
2. **CHANNEL (1-7)**



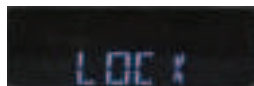
3. **LEVEL (-12 to +9)**



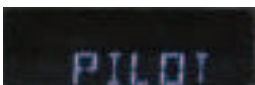
4. **SQUELCH (5 – 45)**



5. **DISPLAY  
(FREQUENCY, CHANNEL,  
SQUELCH, LEVEL)**



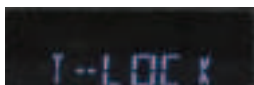
6. **LOCK (ON, OFF)**



7. **PILOT (ON, OFF)**



8. **SCAN (SCAN FOR  
OPEN FREQUENCY)**



9. **T-LOCK (ON, OFF)**

**Activate Menu:** To activate the menu, press the SET button until “GROUP” appears on the display.

**Scroll Through Menu:** Each of the menu functions are displayed on the screen in the order they appear in the grid above. To scroll through the menu press the UP button. Use the DOWN button to scroll in reverse. For example, if you are on “GROUP” and want to quickly get to “T-LOCK”, press the DOWN button once.

## MENU FUNCTIONS

### GROUP/CHANNEL

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These two functions work hand-in-hand as they represent preselected frequency coordinates. See page 30 for a table of coordinated frequencies. Each time a SCAN is performed (by pressing and holding the UP or DOWN button), a clear “Group/Channel” will be chosen and appear on the display. It will be one of the 106 predesignated frequencies available in your system (see page 30). The SCAN function takes the guesswork out of finding the best available frequency and is also handy for adding more systems into the mix.



“Group/Channel” can also be controlled manually from the menu. Activate the menu (see previous page). When “GROUP” appears, press SET. The current “Group” will be displayed. Press either the UP or DOWN button to scroll to another “Group” and then press SET. The new “Group” will be saved and will appear on left side of the display.

**Hint:** The word “CHANNEL” will appear to the upper right of the number. This means the display is in Channel mode. The menu displays “Group/Channel” as the default. Press the SET button (quickly) and the “Frequency” will appear on the screen. After 5 seconds it will default back to “Group/Channel”. To set “Frequency” as the default display see “Display” (pg 18).

To change the channel, go to “CHAN” in the menu (it’s next in line after “GROUP”) and press SET. The current channel will be displayed. Scroll through the channels and select the one you want, then press SET. The same applies if “Frequency” has been selected as the default.

## GROUP/CHANNEL (AP42 ONLY)

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Please note that the AP42 dual receiver system is designed for both receivers to be used in the same Group. Whenever the Scan-Sync function is run, the AP42 system will choose the optimum Group and place both receivers in the same Group. We suggest always using the Scan-Sync function to choose new frequencies. When manually changing the Group, please note that the Group will change accordingly on both receivers.

**FOR BEST RESULTS, DO NOT CHANGE FREQUENCIES DURING A PERFORMANCE.**

## LEVEL

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This setting allows for additional gain control over the receiver. The factory setting is +6, a good gain setting for Audix dynamic microphones. The VX5 condenser microphone has much more output than a dynamic mic and is better suited in the -6 or -9 range.

**Hint:** The key to a good sound with the least amount of noise and distortion is finding the balance between the mixer, the receiver and the capsule gain. A soft singer, for example, will require more gain on the mixer and receiver, which could potentially add some noise into the system. Fine tuning the receiver setting can be helpful in these cases. A loud singer, on the other hand, will require less gain and possibly a gain reduction on the transmitter itself for control over distortion.

## SQUELCH

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“Squelch” is an important design facet of a wireless circuit. It mutes or suppresses noise from the receiver in the absence of a desired signal. Typically, the lower the squelch, the less signal it takes to activate the receiver. The higher or tighter the squelch, the higher

the signal required. Squelch also affects operating distance. Unless you run into extreme conditions where you need more or less operating range than normal, we recommend keeping the squelch around the factory setting of +15.

## DISPLAY

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There are two default options for the LCD screen: "FREQUENCY" or "CHAN". Additionally, you have a choice of displaying either "SQ" (squelch) or "LEVEL" settings. Activate the menu screen and scroll to "DISPLY". Press SET and "FREQUENCY" will flash. Press the UP button and "CHANNEL" will flash. Press the UP button and "SQ" (squelch) will flash. Press the UP button and "LEVEL" will flash.

Once you decide whether you want "Frequency" or "Channel" as the default, press SET to save it. If you choose "Frequency", the receiver frequency will be displayed as the default. If you choose "Channel", then "Group/Channel" will be displayed as the default.

**Hint:** If "Frequency" is selected as the default, then by pressing the SET button quickly, the "Group/Channel" info will be displayed for a few seconds. If "Channel" is selected as the default, then by pressing the SET button quickly, the "Frequency" will be displayed for a few seconds.

The option of showing either "Level" or "Squelch" is also available. Whatever settings are chosen for those items will be displayed once selected and saved. "Level" is the factory default.

## LOCK

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You can lock the receiver to prevent someone from accidentally pressing SCAN, SYNC or the POWER button. Once everything is set and working, this is recommended.

### Locking Feature For AP42

In order to insure that someone does not change a Group unintentionally, there is a Lock feature added to the AP42. Scroll through the menu to the "LOCK" screen and choose lock "ON." This will disable the SCAN, SYNC, SET, UP, and DOWN buttons. To unlock the receiver, scroll through the menu to the "LOCK" screen and choose lock "OFF". All functions will be enabled.

## PILOT

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This is an inaudible tone generated by the transmitter to the receiver as additional insurance to keep the receiver from generating noise when there is no signal present. The Pilot should be left ON and only be turned OFF temporarily if troubleshooting the system for problems.

## SCAN

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The option to perform a scan for a clear channel. The Audix Performance Series Wireless Scan feature performs a scan to find clear and open frequencies as well as compatible frequencies when using multiple systems.

## T-LOCK

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Transmitter lock. This function disables the POWER and MUTE button on the handheld transmitter. This helps prevent the transmitter from accidentally being MUTED or turned OFF during a performance.

**Hint:** The bodypack has this feature built into the menu.

## IMPORTANT

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**After making a change to one of the menu settings above, it is important to RE-SYNC the microphone to the receiver in order to clear the previously saved information.**

# USING THE H60 HANDHELD TRANSMITTER

## POWER ON/ MUTE

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The button below the display powers ON the transmitter. To power OFF the transmitter, press and hold the button for 2 seconds. A quick touch of the POWER button will MUTE the transmitter. Another quick touch will restore signal. This is a noiseless function and is very convenient for applications where a vocalist or presenter wants complete control of the microphone.

## LCD DISPLAY

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The display indicates the frequency of the transmitter along with "Group/Channel". In order for the microphone to work, the frequency of the microphone must match that of the receiver. If they do not match, go into the Sync mode (see Quick Set Up Guide, pg 6).

The same rules of acoustics that apply to a wired microphone also apply to the handheld transmitter.

## OM SERIES

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The OM Series capsules are designed to maximize gain before feedback on stage. The hypercardioid pickup pattern of the microphones are designed to reject sound from instruments on stage. For best results, sing within a few inches of the microphone.

## SETTING OUTPUT LEVEL

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Choice of 10 Milliwatt or 30 Milliwatt RF transmission levels (pg 14).

## VX5

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The VX5 condenser microphone has a more open supercardioid pickup pattern. The extended on-axis reach is ideal for singer/songwriters, keyboard players and vocalists who want more freedom to work the microphone from a distance.

## INTERCHANGEABLE CAPSULES

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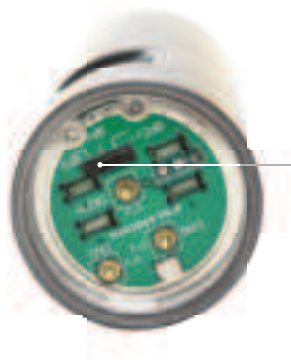
It is very easy to change a capsule assembly. Simply unscrew the capsule assembly at the ring above the Audix logo.

**Hint:** Do not unscrew the grill ball as it is a separate threaded piece intended to be removed separately from the capsule housing.

## CONTROLLING DISTORTION

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Audix capsules are designed to handle very high sound pressure levels without distortion. If distortion is detected, try to minimize or eliminate it from the mixing console by turning down the trim and gain controls. If distortion persists, there is a gain setting at the capsule. First remove the capsule assembly. Locate the dip switch on the green PCB inside the housing. Use a miniature screwdriver to move the switch from 0 dB to -6 or -12.



DIP SWITCH FOR  
GAIN CONTROL

**Hint:** Padding the sensitivity of the capsule at the source is the most effective way to control distortion without changing the natural sound quality or response of the microphone.

## USING THE B60 BODYPACK TRANSMITTER

There are three buttons that control the menu functions—SET, UP (forward) and DOWN (backwards). The functions controlled by the buttons are RF OUTPUT, LEVEL and LOCK.

**There are 3 menu functions:**

RF POWER OUTPUT, LEVEL, LOCK.

### RF POWER OUTPUT

This controls the level of the RF output. LO = 10 Milliwatts or HIGH = 30 Milliwatts.



### TO SET RF POWER OUTPUT

Make sure the bodypack is turned ON. Press and hold the SET button. Press the UP button until “RF AMP” or “RF OUTPUT” appears on the display. Press the SET button and the display will flash, indicating the current setting, either “HIGH” or “LO” or “10mW” or “30mW”, depending on which bodypack model version you have. Press the UP button to toggle between HIGH = 30 milliwatt or LO = 10 milliwatt. Press SET to save the setting.

**Hint:** The Lo gain setting is helpful on a smaller stage with direct line of sight or in areas with a lot of wireless congestion. It also improves battery life.

### GAIN CONTROLS

There are two level settings: Line Level and Mic Level.

Mic level features three relative gain settings: 0, -6, -12.

Line level features -24 dB for active guitar or bass pickups.

## TO SET LEVEL

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Press and hold the SET button until "LEVEL" appears on the display. Press the SET button once and Mic Level (gain) or Line Level will flash. Use the UP button or DOWN button to select either Mic or Line Level. Press the SET button again. Use the UP button or DOWN button to select the gain level desired. Press SET and the current setting will appear. Use the UP or DOWN button to scroll through the settings. Press SET to save the one you want.

## LOCK

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This disables the POWER button from being active. This prevents the bodypack from being accidentally turned off or muted. RF Output and LEVEL are locked when the B60 is locked.

## TO SET LOCK

---

Press and hold the SET button and use the UP or DOWN buttons until "LOCK" appears on the display. Press the SET button and the current setting will flash "ON" or "OFF". Use the UP or DOWN button to scroll through the two options. Press SET to save the setting.

## THERE ARE THREE USES FOR THE BODYPACK TRANSMITTER:

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1. Lavalier microphones  
(ADX10, L5)



2. Headworn microphones  
(HT2, HT5, HT7)



3. Sax, brass, flute and guitar

## CONNECTOR

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The bodypack uses a mini 3-pin XLR connector for all microphones. Other brands of microphones can be used with the Audix Performance Series Wireless system; however, it will be necessary to rewire the microphone connector to a mini 3-pin XLR (f). In this case, note the following pin configuration:



## PERFORMANCE TIPS

The best position for a wireless receiver is within line of sight whenever possible. For more complex set ups, consider extending the antenna range by using the ANTDA4161 active antennas.

High quality batteries will provide the best results for handheld and bodypack transmitters. Rechargeable batteries typically have a shorter usage span. It is not possible to use two sets of transmitters simultaneously on the same frequency. It will not work. Each time a scan and sync is performed, the transmitter will always be tuned to the current frequency on the receiver. When using dual systems, always scan and sync each channel independently from one another.

## SETTING UP MULTIPLE SYSTEMS

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It is fairly straightforward to get 16 channels of wireless to work simultaneously within one frequency band (32 megs). This is done using a standard Scan and Sync method. The systems will stay in the same Group until the group maxes out its channel selection. At this point, it may be necessary to manually select a different Group for additional pre-coordinated channels.

## ANTENNAS

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Both antennas must be installed in order for the diversity function to work properly. Always attach both antennas to the receiver.

## RACKMOUNTS



### RMT 4161

Optional accessory. Adapts one R41 or R61 receiver into a single 19 inch rack space.



### RMT 41 Kit

Optional accessory. Includes RMT 4161 and BNC cables for front mounting antennas.



### RMT 241

Optional accessory. Adapts two R41 or R61 receivers into a single 19 inch rack space. Note: Antennas must remain rear mounted when using this rackmount.



### RMT 42

Optional accessory. Adapts one R42 or R62 two channel receiver into a single 19 inch rack space.



### RMT 42 Kit

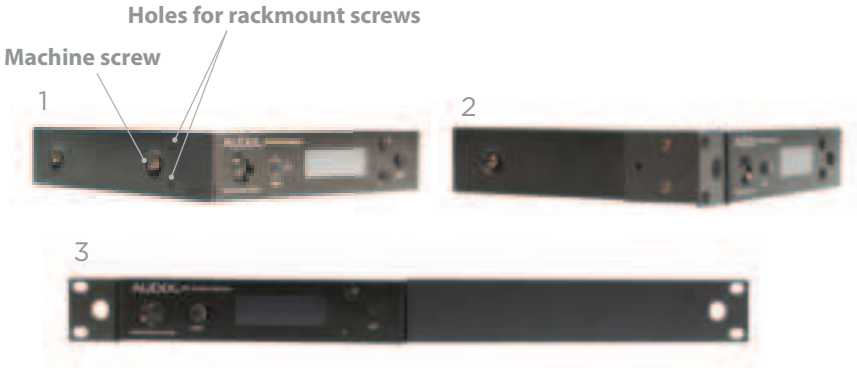
Included accessory with AP42 and AP62 systems. Includes RMT42 rackmount and BNC cables for front mounting antennas.



# RACKMOUNT INSTALLATION

## RMT 4161

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- 1 The holes for attaching rackmounts are located on the sides of the receiver.
- 2 The rackmounts are attached with two Phillips head screws and are intended to lay over the Torx machine screw that holds the receiver enclosure together. For additional support, the Torx screw may be removed and used as one of the fastening screws for the rackmount.
- 3 After both metal pieces are fastened to the receiver, it is ready to be mounted into the rack.

## RMT 41 KIT

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- 1 This kit includes the BNC cables needed for front mounting the antennas. Remove the hex nut from the threaded end of the BNC connector.
- 2 Note: The rackmount has a hole that is slotted on one side. The flat portion of the BNC connector must line up with the slotted portion of the hole in order to be pushed through. It can only go in one way. Once it is through the hole, screw the nut back into place and tighten.
- 3 After both sides are secure, connect the cables to Antenna A and Antenna B on the back of the receiver. The antennas may now be front mounted to the BNC connectors.

## RMT 241



- 1 Using the larger Phillips head screw, fasten the metal rackmount ears to the outside of each receiver. Fasten the flat connecting metal piece to the inside of each receiver.
- 2 Place the two receivers together and line up the holes in order to adjoin the two pieces. Once lined up, use the small screws to fasten the top side together. Then turn the receivers over and fasten the bottom side.
- 3 Tighten up all screws and the receivers are now ready to be mounted into the rack.

## RMT 42



Attach the metal rack ears in the normal fashion to each side of the receiver. See figure #2 under RMT 4161 on previous page.

## RMT 42 KIT



After the RMT 42 is attached to the receiver, follow the instructions for RMT 4161 on previous page for attaching BNC connectors and front mounting the antennas.

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Receiver won't power up	Bad connection	Check your power cord to make sure it's plugged into the outlet and receiver correctly
Transmitter will not power up	Batteries	Make sure they are installed correctly (pg 6) or check the battery life indicator on the transmitter
	Lock mode may be ON	If T-Lock is ON, change to OFF (pg 19)
Transmitter locked up	Software conflict	Re-load batteries in order to clear memory
No RF signal	Transmitter is not synced to receiver	Sync transmitter to receiver (pg 8)
	Receiver is out of range	Reduce the distance
RF signal is weak	Antennas may not be connected correctly	Adjust antennas or use remote antennas
	Possible frequency interference from another wireless device	Re-Scan and Sync to another frequency (pg 8) or try a lower power setting if on a smaller stage or venue (pgs 14, 21)
No AF	Transmitter muted	Check transmitter ON/OFF button
	Transmitter battery low or dead	Replace battery
	Receiver not hooked up properly	Check cable connections on both receiver and console, also check cable for continuity with a cable tester
AF Signal distorted	Transmitter sensitivity setting is too high	Reduce output level on transmitter (pgs 14, 21) or reposition vocal or instrument microphone
	Receiver level too high	Change gain level of receiver (pg 17)

# SPECIFICATIONS

	R41/R42 Receiver
Frequency Range	A: 522 MHz - 554 MHz / B: 554 MHz - 586 MHz
Bandwidth	32 MHz
Compatible Systems	Up to 16 systems (R41) / 8 systems (R42) simultaneous use
Switchable Frequencies	106 Pre-coordinated frequencies
Manual Mode	n/a
Frequency Response	45 Hz – 18 kHz
Companer System	2:1
Pilot Tone	32 kHz
Receiving System	Single tuner, antenna diversity
Signal-to-Noise Ratio	105 dB at 30 kHz deviation (A-weighted)
Total Harmonic Distortion	≤0.7% (33 kHz deviation at 1 kHz)
Sensitivity	5 dBμV (S/N 60 dB at 25 kHz deviation, A-weighted)
Audio Output (Level=6)	Balanced: -12 dbv @ 25 kHz deviation, 600 ohm load 1/4": -18 dbv @ 25 kHz deviation, 10 ohm load
Output Connectors	1/4", XLR
Audio Level Adjustment	-12 to +9 in 3 db steps
Range	300'; (91 m)
Power Supply	100 - 240 V / 50 - 60 Hz, 12 V DC, 1A
Dimensions (W / D / H)	205 mm / 8.07 in x 206 mm / 8.11 in x 44 mm / 1.73 in (R41) 406 mm / 15.98 in x 209 mm / 8.23 in x 44 mm / 1.73 in (R42)
Net Weight	1.92 lb / 0.87 kg (R41) 4.75 lb / 2.1 kg (R42)

	H60 Handheld Transmitter
RF Power Output	10 mW, 30 mW
Frequency Bandwidth	64 MHz
Gain Controls	0 dB, -6 dB, -12 dB
Input Connector	n/a
Batteries Included	2 AA 1.5 V
Current Consumption	110 mA typical
Battery Life	Approximately 14 hours (depending on battery type and usage)
Input Impedance	n/a
Max Sound Pressure Level	>140 dB (depending on capsule)
Dimensions	2.1in diameter body, 10.43" (L), 53 mm diameter body, 265 mm (L)
Net Weight	11.0 oz / 312 g (without battery)

	B60 Bodypack Transmitter
RF Power Output	10 mW, 30 mW
Frequency Bandwidth	64 MHz
Gain Controls	0 db, -6 dB, -12 dB, -24dB
Input Connector	3 pin mini-XLR
Batteries Included	2 AA 1.5 V
Current Consumption	110 mA typical
Battery Life	Approximately 14 hours (depending on battery type and usage)
Input Impedance	Mic: 10k ohm, Line: 1M ohm
Max Sound Pressure Level	Approx. 128 db - 140 dB (depending on microphone)
Dimensions (W / L / D)	67 mm / 2.6 in x 90 mm / 3.5 in x 17 mm / 0.67 in
Net Weight	3.0 oz / 85 g (without batteries)

# R41A GROUP/CHANNEL CHART (522 - 554)

## GROUP

CHANNEL

	1	2	3	4	5	6	7	8	9	10
1	545.625	541.475	547.475	554.125	553.300	553.625	553.600	553.450	550.500	551.725
2	544.500	541.075	547.075	549.675	551.625	547.350	552.975	549.700	547.875	550.500
3	543.575	540.450	546.450	548.650	544.925	543.475	552.150	548.775	546.425	549.575
4	542.350	539.625	542.850	548.125	541.600	542.400	551.750	547.325	545.500	548.125
5	535.075	538.500	535.475	529.475	540.450	538.350	551.025	544.700	541.750	545.500
6	533.625	537.575	534.450	529.075	527.325	535.500	527.625	543.475	538.925	544.275
7	531.575	536.850	532.500	528.450	526.075	533.950	526.500	534.625	537.475	535.425
8	530.850	536.350	530.350	524.850	525.525	528.075	525.575	532.750	534.150	533.550
9				524.350	524.525	526.375	523.475	530.675	532.600	531.475
10					522.100	525.800	523.075	530.250	530.500	531.050
11							522.450	525.150	528.100	525.950
12								522.350	523.750	523.150
13										522.525

# R41B GROUP/CHANNEL CHART (554 - 586)

## GROUP

CHANNEL

	1	2	3	4	5	6	7	8	9	10
1	583.475	585.575	584.500	584.675	584.400	584.825	583.350	584.675	585.375	584.400
2	583.075	584.850	578.125	582.600	582.350	579.125	581.600	582.600	584.500	582.350
3	582.450	559.600	571.450	579.400	581.475	578.625	573.825	581.750	581.150	581.475
4	581.625	558.975	565.600	571.600	579.125	574.475	572.800	579.400	580.600	579.125
5	580.500	557.750	564.975	570.975	577.600	567.550	571.550	578.375	579.200	578.100
6	579.575	557.025	564.150	570.150	576.975	566.000	570.775	577.150	578.125	577.100
7	578.350	555.675	563.025	569.750	576.150	561.100	569.050	576.650	577.450	576.375
8		554.650	561.675	569.025	575.025	557.075	565.700	575.300	576.100	575.850
9			560.125	567.675	573.675	555.300	561.075	574.450	575.250	574.825
10				566.125	572.125			571.450	572.250	573.475
11								564.700	565.500	572.850
12								562.600	563.400	570.050
13								561.050	561.850	564.525
14								556.275	557.075	562.450
15									554.250	560.575

### \*NOTE

30 Frequencies in the above chart may be selected by changing "Group" and "Channel" options from the menu (pg 16).

# INTERNATIONAL E FREQUENCY GROUP/CHANNEL CHART

Audix offers wireless systems that work with the international free frequency (823 – 832 MHz and 863 – 865 MHz).

## GROUP

CHANNEL		1	2	3	4	5	6	7	8	9	10
	1	823.625	823.825	823.175	827.450	823.500	823.250	824.025	824.975	823.000	823.975
	2	828.275	825.000	827.200	828.575	824.500	823.750	826.225	826.025	824.225	825.775
	3	829.100	825.575	827.825	829.250	825.750	825.250	826.975	828.000	824.975	828.625
	4	830.225	826.550	829.375	830.275	827.250	826.500	829.300	828.700	828.000	829.500
	5	830.625	827.075	829.875	830.700	828.250	827.500	829.700	829.100	829.100	831.900
	6	831.625	829.700	830.625	831.725	863.150	828.250	863.125	863.150	829.500	863.475
	7	863.400	831.500	863.625	863.625	863.550	863.125	863.525	863.550	863.125	863.900
	8	863.825	863.350	864.350	864.325	864.600	863.525	864.175	864.175	863.525	864.550
	9	864.625	863.900	864.875			864.175	864.625	864.600	864.175	
	10		864.875				864.625			864.625	

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