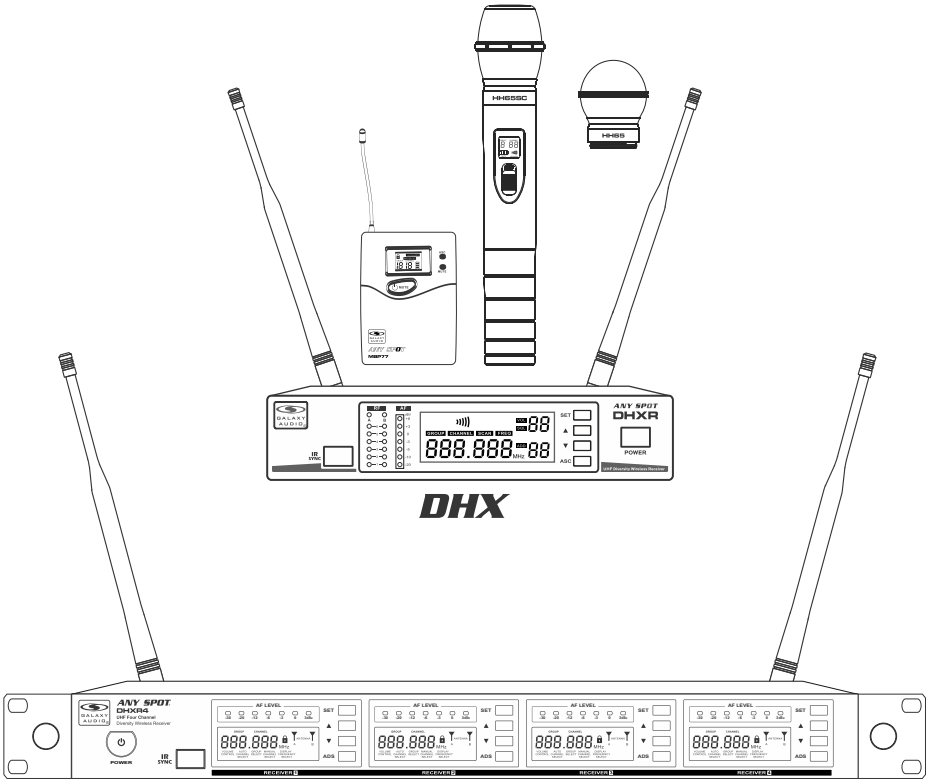
DHX & DHXR4 UHF

USER'S MANUAL

ANY SPOT®

WIRELESS MICROPHONE SYSTEM



GALAXY AUDIO®

MAKERS OF THE ORIGINAL
HOT SPOT PERSONAL MONITOR

Contents

DHX & DHXR4 System

DHX and DHXR4 Systems

Thank you for choosing the Galaxy Audio DHX or DHXR4 Wireless Microphone System. You have joined hundreds of thousands of other satisfied Galaxy customers. Since 1977 Galaxy Audio's professional experience in design and manufacturing ensure our products quality, performance and reliability.

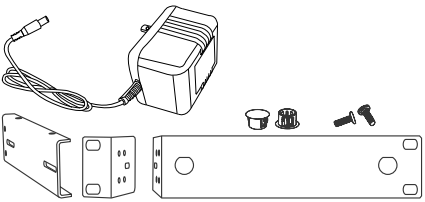
For users who need an advanced UHF wireless system, the DHX and DHXR4 provides an excellent solution. With 120 selectable channels, they are perfect for applications such as live shows, broadcast, meetings, & musical instruments. Touch buttons and liquid crystal displays allow for a quick and simple system setup. The "Quick Start Guide" included in your system will provide all the details you need to operate the system efficiently.

Frequency Band

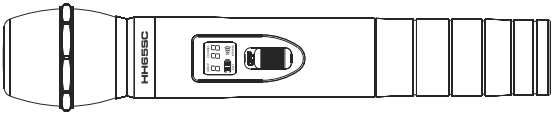
Most countries closely regulate the radio frequencies used in the transmission of wireless information. These regulations state which devices can use which frequencies, and help to limit the amount of RF (radio frequency) interference in all wireless communications. The DHXR4 offers 120 selectable channels within either the 584-607MHz (Code D), 655-679MHz (Code L) or 518-535MHz (Code N) frequency ranges.

To facilitate system setup and protect against RF interference, each system comes with multiple predefined frequency groups and channels. When using a single receiver/transmitter, the operating frequency will generally not have to be changed. In an installation with multiple receivers/transmitters, each set must operate on a separate channel from the others. The group and channel system provides an optimum frequency spread when using multiple receiver/transmitter systems.

All DHXR Systems Include:
DHXR Receiver
Power Supply
Two Antennas
MREWD Single/Dual Rack Kit
Quick Start Guide

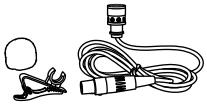


HH65/HH65SC Handheld System includes:
Handheld Mic Transmitter with HH65 Dynamic or
HH65SC Super Cardioid Condenser,
Interchangeable Heads



MBP77 Lav/Headset Systems includes:
MBP77 Body Pack Transmitter.
Mic (Choice of Uni Lavalier or Uni Headset)

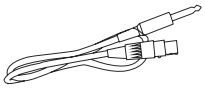
HS-U3BK



LV-U3BK

This is just a sample of the many headset and lav options available from Galaxy Audio.

DHX/77 Guitar system includes:
MBP77 Body Pack Transmitter and
¼" to Mini 3-pin Guitar Cable.

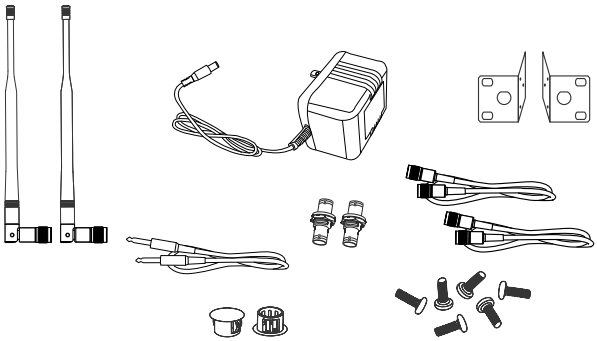


Guitar Cable

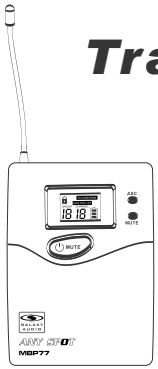
DHXR4 System Components

All DHXR4 Systems Include:

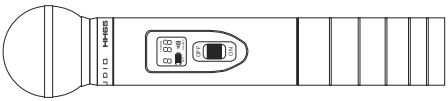
DHXR4 Receiver
¼" to ¼" Audio Cable
Power Supply
Two Antennas
Extension Kit x2
Rack Ears
Quick Start Guide
Two Antenna Plugs
6 Screws



Transmitter Options:

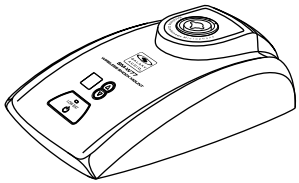


MBP77
Body Pack
Transmitter



HH65 / HH65SC Handheld Mic/Transmitter

Visit our website
www.galaxyaudio.com
to see all of our great
headset & lavalier
options

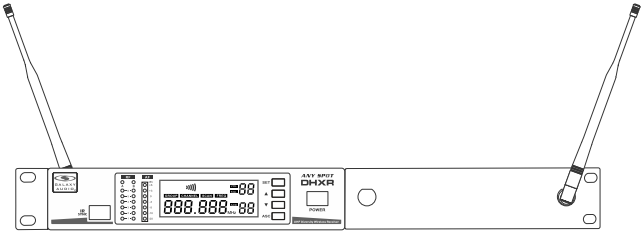


SM-W77 Wireless Shockmount Base

Rack-Mounting a Single DHX Receiver

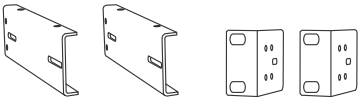
BNC CONNECTOR & CABLE:
For front mounting antenna to rack ears.
Part# AS-EXT50/BNC (optional)

Included MREWD Single/Dual Rack Kit
Long and Short Rack Ears needed
for Single Unit Mounting

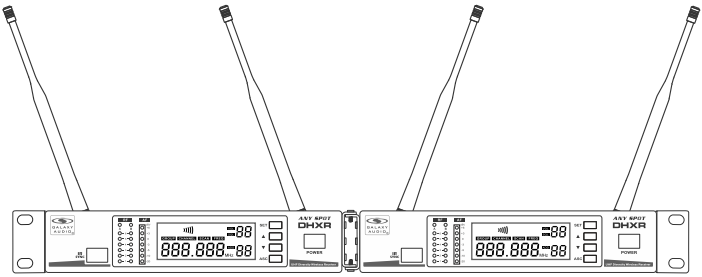


Rack-Mounting Two DHX Receivers

Rack Brackets for mounting
Two Receivers side by side
Included Parts: MREWD

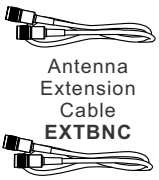


Included MREWD Single/Dual Rack Kit
Two Short Rack Ears and Two Coupler
Halves needed for Dual Unit Mounting



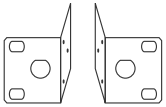
Rack-Mounting the Receiver

Maintain a line of sight between transmitter and antenna.

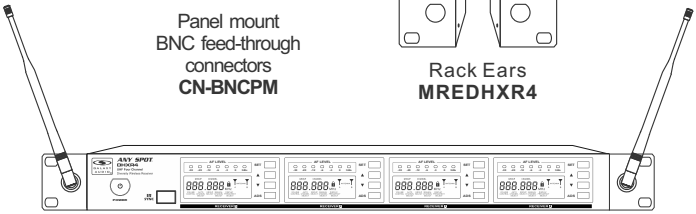


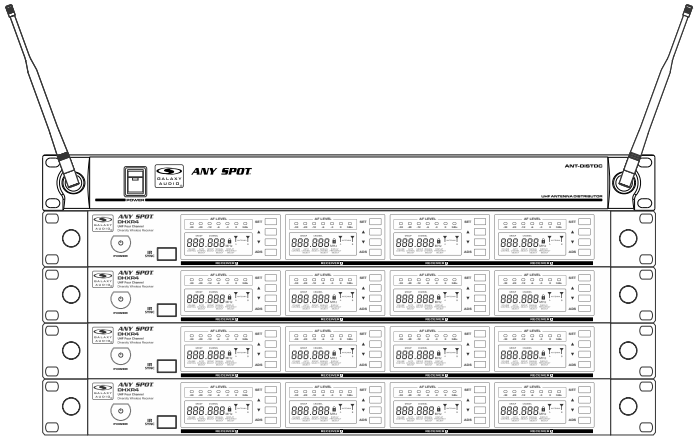
Antenna Extension Cable
EXTBNC

Panel mount BNC feed-through connectors
CN-BNCPM



Rack Ears
MREDHXR4



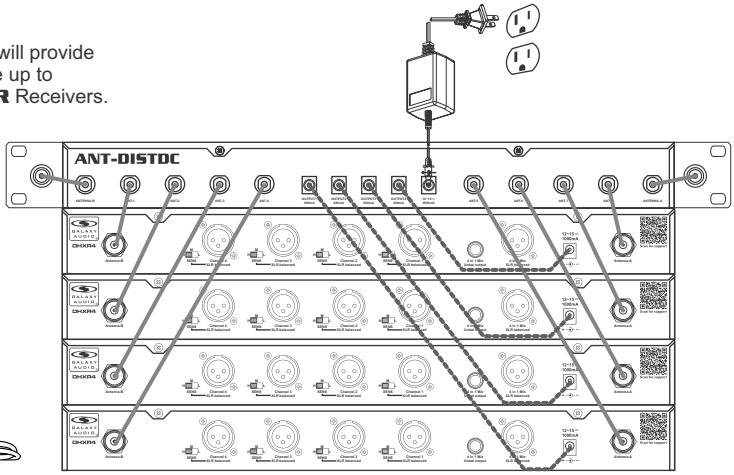


Shown with optional **ANT-DISTDC** antenna distributor.

ANT-DISTDC Info

Four DHXR4 receivers

The **ANT-DISTDC** will provide DC power to operate up to 4 **DHXR4** or **DHXR** Receivers.

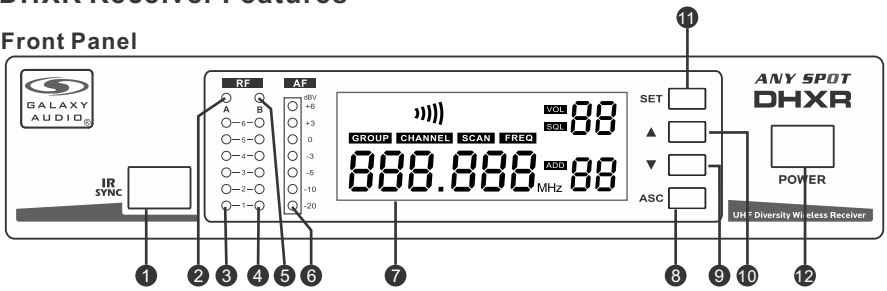


Ten **BNC** connecting cables (included)
Two **BNC** feed through connectors (included)
Four power supply cables (included)

1. BNC Cables
2. Power Supply Cable

DHXR Receiver Features

Front Panel



❶ Infrared (IR) Window.

❷ Antenna A indicator light.
Indicates when Antenna A is active

❸ Antenna A RF strength indicator.

❹ Antenna B RF strength indicator.

❺ Antenna B indicator light.
Indicates when Antenna B is active.

❻ Audio Signal Level indicator.

❼ LCD Screen.
See “DHXR System Setup” on Page 10.

❽ ASC Sync Button.
Press to initiate IR connection between receiver and transmitter.

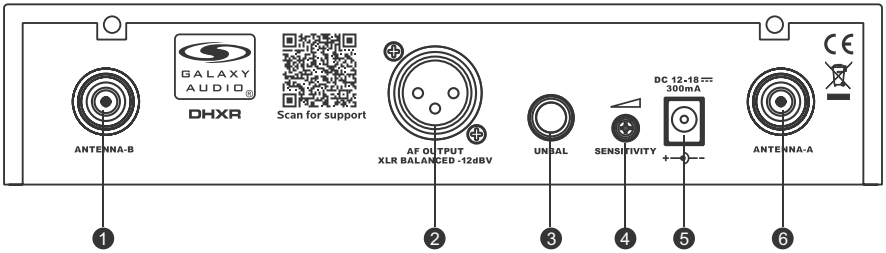
❾ System Menu Down Button.
See “DHXR System Setup” on Page 10.

❿ System Menu Up Button.
See “DHXR System Setup” on Page 10.

⓫ System Setup Button:
See “DHXR System Setup” on Page 10.

⓬ On/Off Switch.

Rear Panel



❶ Antenna Jack B 50Ω.

❷ XLR Output Jack.

❸ ¼" Output Jack.

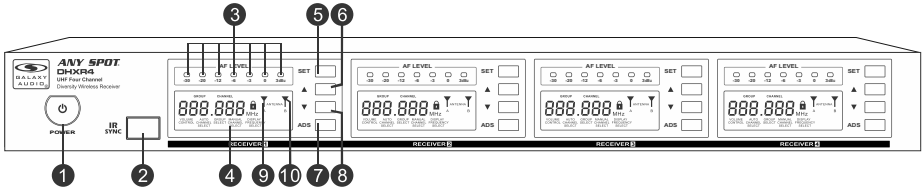
❹ Mute Threshold Fine Adjustment.
This is set at the factory and usually does not need to be adjusted.
If interference signals are received, this threshold value may be increased by turning the pot clockwise with small screwdriver until the RF signal lamp goes out.

❺ DC Power Input Connector.

❻ Antenna Jack A 50Ω.

DHXR4 Receiver Features

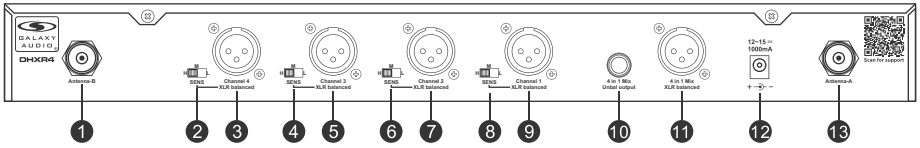
Front Panel



1. On/Off Switch
2. Infrared (IR) Window
3. Audio Level Meter
4. LCD Panel
5. System Setup Button. Please see "DHXR4 System Setup" on Page 11
6. System Menu Up button. Please see "DHXR4 System Setup" on Page 11
7. ADS Sync Button
   Press to initiate IR connection between Receiver and Transmitter.
8. System Menu Down button. Please see "DHXR4 System Setup" on Page 11
9. Antenna A Indicator
   Lights when Antenna A is active.
10. Antenna B Indicator
    Lights when Antenna B is active.

The receiver will switch to whichever Antenna has the best signal.

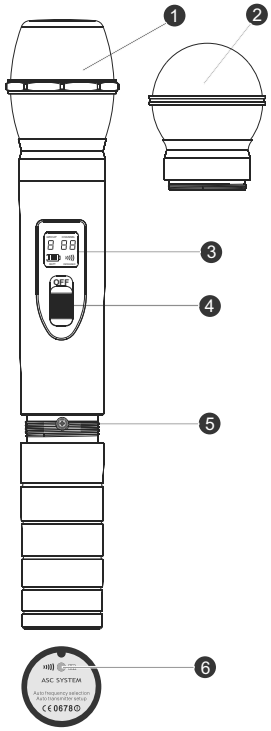
Rear Panel



1. Antenna Jack B
2. Channel 4 Adjustment of Squelch Level
3. Channel 4 XLR Output Jack
4. Channel 3 Adjustment of Squelch Level
5. Channel 3 XLR Output Jack
6. Channel 2 Adjustment of Squelch Level
7. Channel 2 XLR Output Jack
8. Channel 4 Adjustment of Squelch Level
9. Channel 1 XLR Output Jack
10. 1/4" Mix Output Jack
11. Balanced Mix Output Jack
12. DC Power Input Jack
13. Antenna Jack A

The 3 position Sensitivity Adjustment helps to prevent extraneous RF from being picked up and turned into audio when the transmitter is off. The higher level will reduce the useable distance of the transmitter from the receiver. Use the lowest setting that keeps the receiver quiet when the transmitter is off.

The DHXR4 now utilizes Tone Key Squelch. This keeps the receiver channel muted until it receives the inaudible tone from its transmitter. This keeps the channel quiet when the transmitter is off, even if something else is transmitting on the frequency on which the channel is set.



Functions:

❶ Condenser Mic

❷ Dynamic Mic

❸ LCD Screen. Please See the “system setups” on pages 10 or 11.

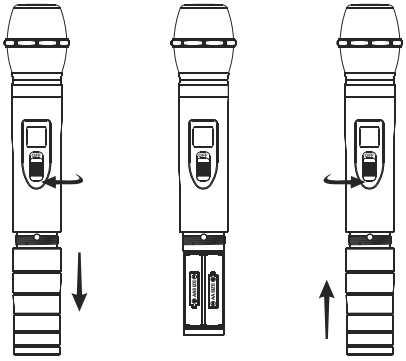
❹ Power Switch

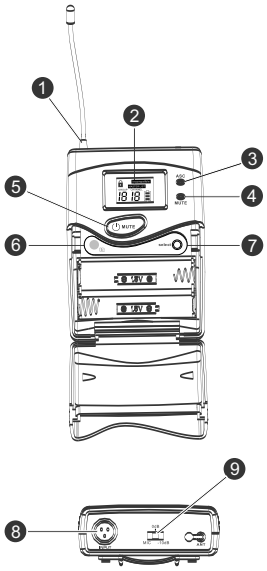
❺ Microphone Input Sensitivity Control. Left turn for output level decrease, right turn for output level increase.

❻ IR Port receives infrared beam to synchronize frequencies.

Changing Batteries:

Batteries should be replaced when LCD indicator flashes. Unscrew the battery cover as shown below. Install two AA alkaline batteries, while observing correct polarity indicators in the battery tray.
Expected life for two AA alkaline batteries is 8 hours.

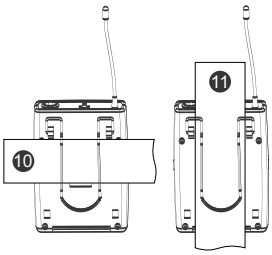




Features

1. Antenna.
2. LCD panel. Please See the “system setups” on pages 10 or 11.
3. Power/ASC/ Low Battery Indicator.
   Constant Green: Power ON.
   Flashing Green: IR ADS in progress, or Low Batteries.
4. Mute Indicator.
   Constant Red: Audio Muted.
5. Power/Mute Button.
   Push and Hold for Power On/Off.
   Push once for Mute On/Off.
6. IR Window.
   Receives IR signals (ADS) to synchronize with Receiver.
7. Select Button. Please See the “system setups” on pages 10 or 11.
8. 3-pin Microphone Input Jack.

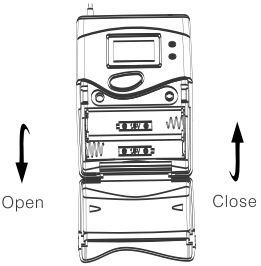
   Gain Adjustment Switch.
   Three gain settings are available. Choose the appropriate setting for your application:
   Mic: Microphone
   0dB: Guitar with passive pickups
   -10dB: Guitar with active pickups, or Line Level Signals.



Note: To prevent accidental power or mute changes during a performance, you may set the Lock function by a simultaneous press and release of buttons 5 and 7. This will disable all buttons and a “lock” icon will appear in the LCD. Repeat procedure to return to normal operation.

Wearing the Body Pack Transmitter:

Clip the transmitter to a belt ⑩. For best results, slide the transmitter down until the belt is pressed against the base of the clip. Or, slide a guitar strap through the transmitter clip ⑪,as shown.



Changing batteries:

Expected life for Two Alkaline batteries is approximately 6 hours. Replace batteries when the Green Power LED and the LCD Battery Indicator (shown below) begin to blink.

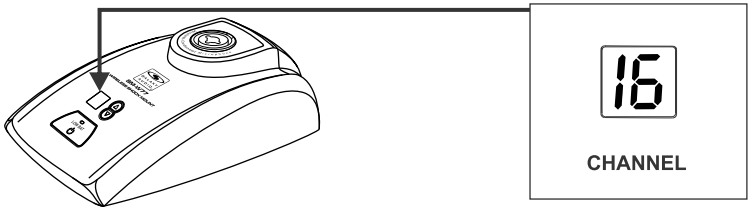
Functions:

1. To turn on the SM-W77, press the large dark grey power button. A green light on the button will illuminate, then the LCD window will also illuminate and indicate the current setting of the 16 possible channels.

2. To change the frequency, press and hold either the up or down button until the channel number flashes. Then use the up or down button to change the channel to the desired number.

3. Once the SM-W77 is set, use the frequency chart to find the corresponding group and channel for the DHXR or DHXR4 receiver, and set the receiver accordingly.

4. The grey button is used to power the transmitter on and off. If the green light on the power button turns red, the battery has fallen below the required voltage and should be replaced immediately.



CODE D Frequency Chart

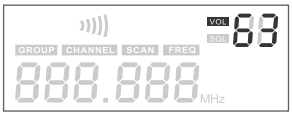
SM-W77D		DHXR	
Switch Position	Frequency	Group	Channel
1	584.400	1	1
2	587.500	1	2
3	590.575	1	3
4	594.050	1	4
5	598.425	1	5
6	606.200	1	6
7	608.450	1	7
8	609.650	1	8
9	601.275	1	9
10	603.675	1	10
11	605.500	1	11
12	606.750	1	12
13	601.575	7	8
14	602.250	6	8
15	607.600	2	12
16	607.875	5	12

CODE L Frequency Chart

SM-W77L		DHXR	
Switch Position	Frequency	Group	Channel
1	655.400	1	1
2	656.550	6	1
3	657.225	5	2
4	656.500	1	3
5	660.575	1	3
6	662.050	1	4
7	664.425	1	5
8	666.200	1	6
9	669.450	1	7
10	670.850	1	8
11	672.275	1	9
12	674.775	1	10
13	675.500	1	11
14	677.750	1	12
15	678.050	7	12
16	678.850	6	12

1

2



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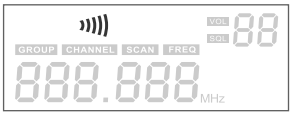


5

Receiver Programming

Group and Channel Selection: Press and Hold the SET button. The Group number will flash. Press ▲ or ▼ to choose the appropriate frequency group, as shown on the left 1; press (SET) again , (CHANNEL) flashes, press ▲ or ▼ to choose the appropriate channel, as shown on the left 2. For best results when operating multiple systems, set all systems to a single group: then set each system to a unique channel within that group.

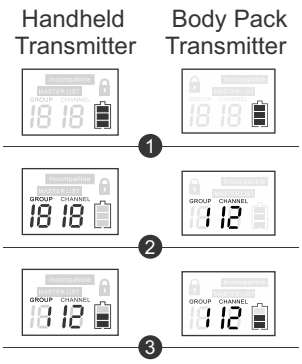
Receiver Volume Setting:
The receiver has an electronic volume control. When in the normal display, press ▲ or ▼ to control the output volume (64 steps total) as 3 shown at left.

Normal Display:
Volume and Frequency, as shown at left 4.
LED columns to the left of the LCD display show RF & AF Levels.

Automatic Transmitter Setup:
Once the desired channel is set on the Receiver, you may allow the Transmitter channel to be set automatically. Note: only one Transmitter may used with each Receiver.

Turn on the Transmitter. Position the Transmitter IR window directly in front of the Receiver IR window. The IR window of the MBP77 Body Pack is located under the battery door while the IR window of the HH65 Handheld is located at the bottom end of the mic body. Press the ASC Button on the Receiver. The ASC Icon 5 will flash in the Receiver LCD. The RF Meters will light when the synchronisation is complete. The Group and Channel number of the Receiver should now be displayed in the Transmitter LCD. With the HH65, turn on the transmitter after pressing the ASC button.

Note: The Transmitter must be within half a meter distance from the Receiver during IR ASC automatic channel setting.



HH65 and MBP77 Transmitter Status Display

Battery Status:
Battery Status Indicators for both the Handheld and Body Pack Transmitters feature Four Level Displays as shown in 1.

Group and Channel Display:
After completing the ASC, both the Handheld and Body Pack Transmitters will display the Group and Channel numbers selected as shown in 2.

Normal Display:
Both Handheld and Body Pack Transmitters will display Group and Channel numbers as well as Battery Status as shown in 3.

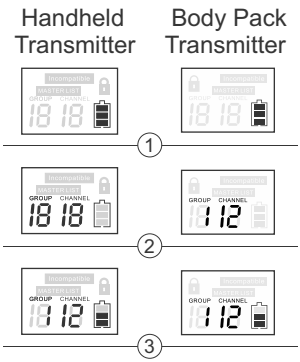
1

2

3

4

5



Receiver Programming

Group and Channel Selection:

❶ Press “SET” button twice, “GROUP SELECT” will display, press ▲ or ▼ to choose the appropriate frequency group.

❷ Press “SET”again , “MANUAL CHANNEL SELECT” will display, press ▲ or ▼ to choose the appropriate channel.

For best results when operating multiple systems, set all systems to a single group, then set each system to a unique channel within that group. However, depending on the environment, this may not be possible.

Auto Frequency Finder Function on the Receiver:

❸ Choose “AUTO CHANNEL SELECT” by pressing “SET” once, then press ▲or ▼. Receiver will automatically find a clear frequency with no interference.

Receiver Volume Setting:

❹ The receiver has an electronic volume control. Press ▲ or ▼ from the normal display (00 to 63)

Normal Display:

❺ Frequency and Antenna A or B (when receiving RF).

Transmitting Frequency Automatic Setup:

Place the Transmitter “IR” window to face the Receiver “IR” window. Then press the “ADS” button on the desired Receiver. The Transmitter will automatically match the Receiver frequency.

Attention: The distance between the Receiver and Transmitter IR windows should be less than 0.5m during the ADS IR setup. When setting up multiple Transmitters/Receivers, activate the ADS function of only one Transmitter and Receiver at a time.

MBP77 Transmitter Status Display

Battery Status:

① Battery Status Indicators for both the Handheld and Body Pack Transmitters feature Four Level Displays.

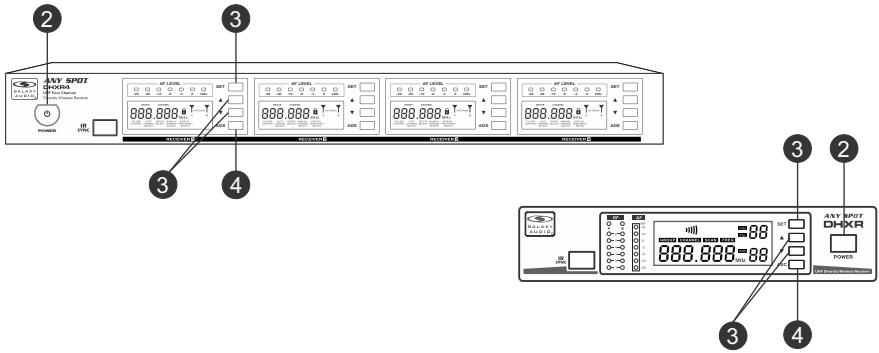
Group and Channel Display:

② After completing the ADS, both the Handheld and Body Pack Transmitters will display the Group and Channel numbers selected.

Normal Display:

③ Both Handheld and Body Pack Transmitters will display Group and Channel numbers as well as Battery Status.

Using the auto scan function to find clear frequencies for your DHX or DHXR4 System



1) Power on any pre-existing wireless systems and transmitters (excluding DHXR/DHXR4).

2) Power on the DHXR/DHXR4 Receiver, do not turn on the DHXR/DHXR4 transmitters.

3) On the DHXR or the first channel of the DHXR4, press the SET button until scan flashes, then press either the up or down button. The receiver will then scan for an open frequency channel within the group selected, and stop on the frequency.

When the DHXR4 Receiver has been set to a clear frequency, use the ADS/ASC feature to sync the receiver frequency to the transmitter.

4) Power on the transmitter for the DHXR or the first channel of the DHXR4, and sync it to the receiver using the ADS/ASC feature. Turn the transmitter on and aim its IR window towards the IR SYNC window at the left side of the DHXR/DHXR4, then press the ADS/ASC button on the desired receiver channel, and the transmitter will automatically set to the receiver's frequency.

5) For using more channels on the DHXR4, leave the first channel transmitter on and repeat steps 3 and 4 for the second DHXR4 channel.

6) Continue this process for the 3rd and 4th channel of the DHXR4.

7) If the receiver is unable to find open frequencies on the group selected, you will need to set one or more receiver channels to another group, and then scan again.

8) To change the group, press the SET button twice, the group number will begin to flash. Use the up or down button to select another group. Then proceed as before.

9) If you have more than one DHXR or DHXR4 system, continue the process as described, adding one channel at a time.

If you have more DHXR or DHXR4 systems to tune follow the same procedure on each one, always leaving the previous system transmitter on.

Tips for Improving System Performance

- Maintain a line of sight between transmitters and antennas.
- Avoid placing the receiver near metal surfaces or any digital equipment (CD players, computers, etc).
- Keep the receiver away from the wall and at least 1m from the ground.
- Cellular telephones and two-way radios can interfere with the operation of wireless systems. Do not use these devices in close proximity to the wireless systems.

Troubleshooting

Issue	Indicator Status	Solution
No sound or faint sound.	Transmitter LCD off.	Turn on transmitter. Make sure the batteries are installed correctly.
	Receiver LCD off.	Make sure AC adapter is securely plugged into electrical outlet and into DC input connector on rear panel of receiver.
	Receiver indicates RF.	Increase receiver volume. Make sure Gain adjustment switch on the transmitter is set correctly (applies only to MBP77 Body Pack.)
	Receiver indicates No RF, Transmitter LCD is on.	Make sure Transmitter and Receiver are set to the same frequency. Make sure Transmitter is in range of Receiver. Make sure no large metal objects are near Transmitter or Receiver.
	The battery power indicator light on LCD flashes.	Change the batteries in transmitter.
Distortion or unwanted noise.	Receiver Indicates RF.	Remove nearby sources of RF interference (CD players, computers, in-ear monitor systems, etc.) Use Auto Scan to find a clear Channel
Distortion level increases gradually.	Transmitter power indicator light flashing on the LCD.	Replace Transmitter batteries.
Sound level different from cabled guitar or microphone, or when using different guitars.		Adjust Transmitter Gain and Receiver Volume as necessary.

System

Frequency Range: CODE D **584~607 MHz**
CODE L **655~679 MHz**
CODE N **518~535 MHz**
Transmitter Output Level: 10 dBm
Band: UHF
Operating Range Under Typical Conditions: 300'
Note: actual range depends on RF signal absorption, reflection, interference, and battery characteristics.
Audio Frequency Response (+/-3dB): 60Hz~16kHz
Total Harmonic Distortion (+/-30kHz deviation, 1KHz tone): <1%
Dynamic Range: >90dB A-weighted
Operating Temperature Range: 14ºF to 122ºF (-10º C to +50º C)
Note: battery characteristics may limit this range:

DHXR Receiver:

Audio Output Level (+/-30kHz deviation, 1kHz tone): XLR connector (into 600Ω load) -12dBV ¼" connector (into 3kΩ load) -18dBV
Output Impedance: XLR connector 200Ω ¼" connector 1kΩ
XLR Output: Impedance balanced
Pin1: Ground (cable shield)
Pin2: Audio
Pin3: No Audio
Sensitivity: -93dBm for 30dB
Image Rejection: >90dB
Dimensions: 1.7" x 8.3" x 6.3" (45 x 212 x 160 mm)(HxWxD)
Weight: 31.75 oz (900 g)
Power Requirements: 12-18 V DC at 1000mA, supplied by external power supply.

DHXR4 Receiver:

Audio Output Level (+/-30kHz deviation, 1kHz tone): XLR connector (into 600Ω load) -12dBV ¼" connector (into 3kΩ load) -18dBV
Output Impedance: XLR connector 200Ω ¼" connector 1kΩ
XLR Output: Impedance balanced
Pin1: Ground (cable shield)
Pin2: Audio
Pin3: No Audio
Sensitivity: -93dBm for 30dB
Image Rejection: >90dB
Dimensions: 1.7" x 16.1" x 11" (45 x 410 x 280 mm)(HxWxD)
Weight: 7.3 lbs (3.3 kg)
Power Requirements: 12-18 V DC at 1000mA, supplied by external power supply.

Body Pack Transmitter:

Max Audio Input Level:
0 dBV maximum at mic gain position.
+10 dBV maximum at 0 dB gain position.
+20 dBV maximum at 10 dB gain position.
Gain Adjustment Range: 30dB
Input Impedance: 470kΩ
Dimensions: 3.5" x 2.6" x 1" (89 x 65 x 24 mm)(HxWxD)
Weight: 3.0 oz (85 g) (without batteries)
Power Requirements:
2 “AA” Batteries alkaline or rechargeable batteries
Battery Life:
About 6 hours

Handheld Transmitter:

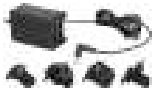
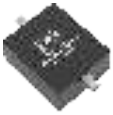
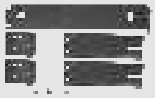
Max Audio Input Level: 0dBV
Dimensions: 9.5" x 2.1" dia. (242 x 54 mm dia.)
Weight: 10.6 oz (300 g) (without batteries)
Power Requirements: 2 “AA” size alkaline or rechargeable batteries
Battery Life: About 6 hours

Shockmount Transmitter:

Number of Channels: 16
Number of Simultaneous Systems:
4-8 across multiple bands
Carrier Frequency Bandwidth: Code D **584-607 MHz**
Code L **655-679 MHz**
Operating Range : 150'
Number of Inputs: 1
Type of Connections: XLRF
Indicators: Low battery LED
Frequency Response: 60Hz~16kHz
SNR: 102dB (a)
THD+N: <1%
RF Power: 10 mW
Phantom Power: 9VDC
Power Requirements: 2 “AA” size alkaline or rechargeable batteries
Power Consumption: 110mA
Dimensions: 1.8" x 4.3" x 5.88" (45.75 x 109.25 x 149.17 mm)(HxWxD)
Weight: 1.6 lbs (without batteries)

Accessories and Replacement Parts

Many of these parts and accessories may be found and purchased from the Galaxy Audio website in either the Galaxy Store (www.galaxyaudio.com/parts-and-accessories) or in the accessories tab of each products web page.

	**AS-EXTBNC** - BNC Connector and Cable for front mounting the antennas on the DHX and DHXR4.
	**AS-ANTBNC** - Replacement BNC Antenna for use with Galaxy Audio Wireless Personal Monitors and Wireless Microphones.
	**WMC-CGR** - DC Charger for HH65, HH65SC, & MBP77. Charges 2 body packs or handhelds at once.
	**MICCLIPSI** - Wireless Microphone Clip
	**AS-CLIP1576** - Replacement Belt Clip for MBP77
	**AS-UA12-14.5** - Universal Power Supply for Replacement Power Supply for AS-900, AS-1100, VES, VSC, ECD, ECM, PSE, DHX, DHXR4, & CTS. Includes adapters for most other countries.
	**PS-13.5-.35.5** - Replacement Power Supply for AS-900, AS-1100, VES, VSC, ECD, ECM, PSE & DHX.
	**ANT-AMPMIC** - Antenna Amplifier utilizes phantom power and a low noise design which covers all UHF frequency points from 500mHz to 900mHz. Metal construction, requires phantom power (9VDC), 50 ohm input/output impedance.
	**ANT-PDL** - Directional antenna used to decrease interference to other equipment. Frequency range 500-900MHz The UHF wide-band (500-900 MHZ) directional LPDA (log periodic dipole array) antenna reduces outside interference while providing increased send/receive signal range. Each antenna paddle is matched to 50 ohms impedance with a low-loss BNC connector; 7dBi gain. For permanent or temporary installation; mounts to 5/8"-27 threads.
	**ANT-DISTDC** - Wireless Microphone Antenna Distribution with Power Distribution for four wireless receiver. Expands wireless microphone systems by splitting one pair of antennas to allow up to four single channel receivers to use the same antennas. Works with PSE, CTS, DHX and DHXR4 series.
	**MREWD** - Rack kit for dual mounting two DHXR receivers into a single rack space.

DHX & DHXR4 FREQUENCY CHART

D-BAND AS-1100, DHT, DHX										
Channel	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10
1	584.400	585.950	586.200	586.775	586.100	584.425	584.750	585.650	586.900	586.075
2	587.900	588.500	588.875	588.500	587.225	586.400	587.800	588.200	588.075	588.800
3	591.775	591.225	590.600	590.250	589.250	588.425	588.075	589.525	590.100	590.500
4	593.050	593.025	592.650	591.800	590.525	591.475	591.850	592.025	592.650	592.300
5	593.425	593.650	593.750	592.700	592.200	593.775	593.725	593.650	593.650	593.000
6	595.200	594.550	594.200	594.850	594.500	594.875	595.650	594.850	594.900	594.550
7	596.450	597.600	596.525	596.500	597.750	596.500	596.750	596.100	596.525	596.600
8	598.650	598.075	598.225	599.100	599.200	598.250	598.050	598.875	598.025	599.400
9	601.275	601.950	600.525	601.425	600.400	600.350	601.575	601.250	600.525	601.725
10	603.775	603.425	603.075	603.450	604.600	605.250	604.075	603.725	603.875	603.750
11	605.500	604.500	605.800	604.775	605.500	606.325	605.850	604.850	605.500	605.075
12	606.750	607.600	607.075	606.500	606.225	607.350	607.050	607.600	607.075	607.200

L-BAND AS-1100, DHT, DHX										
Channel	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10
1	655.400	653.250	653.200	656.775	656.100	655.425	655.750	653.650	653.900	657.075
2	658.900	657.600	656.875	658.500	657.225	657.350	658.850	657.600	656.875	658.800
3	661.775	661.225	657.600	661.200	660.250	660.425	660.875	661.825	658.100	657.500
4	663.050	661.725	658.650	662.800	661.525	662.475	662.850	663.025	658.650	662.800
5	664.425	663.650	663.750	663.700	663.200	664.775	664.725	663.650	663.650	664.000
6	666.200	664.550	664.200	665.250	667.200	666.250	666.050	664.850	664.900	664.550
7	668.450	667.600	666.525	668.500	668.750	670.500	666.750	666.100	666.525	668.600
8	670.650	669.075	669.225	670.100	670.200	670.250	670.050	669.875	669.025	670.700
9	672.275	671.950	671.525	672.425	671.400	674.550	672.075	672.250	671.525	672.725
10	674.775	673.425	673.075	674.450	675.600	676.250	675.075	673.725	673.875	674.750
11	676.500	675.500	676.800	676.775	674.500	677.325	676.850	675.850	676.500	676.075
12	677.750	675.600	676.075	677.500	677.225	676.350	676.050	675.600	676.075	676.200

N-BAND AS-1100, DHT, DHX										
Channel	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10
1	515.750	513.475	520.175	520.650	523.575	524.375	525.175	525.850	527.075	527.075
2	518.750	518.900	520.700	520.175	524.650	524.325	527.350	527.075	527.700	528.175
3	521.525	521.775	520.900	520.525	524.250	525.350	527.025	525.525	526.875	526.550
4	522.025	523.100	521.600	521.925	524.700	530.325	527.525	526.275	528.075	528.775
5	522.450	521.450	522.250	526.100	524.850	530.125	528.175	528.450	528.475	526.900
6	523.250	524.050	523.425	526.275	526.075	534.275	530.325	530.975	530.850	530.275
7	523.875	524.100	526.125	526.475	527.450	527.450	528.575	528.450	528.100	527.825
8	524.200	523.975	524.025	527.025	527.275	534.225	530.475	530.275	530.850	530.450
9	524.650	523.725	526.200	526.500	527.850	532.250	531.725	532.900	530.800	532.275
10	525.550	524.200	526.750	526.325	530.425	532.850	533.350	530.850	530.550	530.425
11	525.900	524.775	526.875	530.775	530.550	534.525	535.050	530.900	530.075	530.875
12	526.625	525.125	526.050	526.500	530.275	534.350	532.825	530.825	530.100	530.525

DHX & DHXR4
Frequency Chart

http://www.galaxyaudio.com/assets/uploads/media/WPM-WMS_Freqs.jpg

GALAXY AUDIO
Frequency Page

http://www.galaxyaudio.com/support/schematics-and-frequency-charts

DTV RF Channel	Frequency Range
14	470-476
15	476-482
16	482-488
17	488-494
18	494-500
19	500-506
20	506-512
21	512-518
22	518-524
23	524-530
24	530-536
25	536-542
26	542-548
27	548-554
28	554-560
29	560-566
30	566-572
31	572-578
32	578-584
33	584-590
34	590-596
35	596-602
36	602-608
37	608-614
38	614-620
39	620-626
40	626-632
41	632-638
42	638-644
43	644-650
44	650-656
45	656-662
46	662-668
47	668-674
48	674-680
49	680-686
50	686-692
51	692-698

The frequencies of the Galaxy UHF Wireless Systems are on frequencies that are used by Digital Television stations.

To be assured of the best performance, you should determine on what RF channels the DTV stations in your area are broadcasting, then set your wireless systems on frequencies that are not being used.

You can find that information on this FCC web site.
https://www.fcc.gov/media/engineering/dtvmaps

Enter the zip code of the location where the wireless system will be used into the location search bar. A list of stations in that area will be listed. Click on the call sign of the stations and the details will appear, showing you the RF channel the TV station is using. Compare these with the chart to the left, and using the Galaxy frequency charts on page 16, find a frequency that is not on an active DTV RF channel.

For example, if you have an L-Band DHXR and your location has DTV stations on RF channels 45 and 48, you will want to set your DHXR on a frequency that is on RF channel 46 or 47.

FCC Consumer Alert for Wireless Microphones (U.S.)

Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change.

For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at www.fcc.gov/cgb/wirelessmicrophones

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