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ANY SPOT.

WIRELESS MICROPHONE SYSTEM

DHT

USER'S MANUAL

UHF

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Introduction

Thank you for choosing the Galaxy Audio DHT 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 the most up-to-date manual and information visit www.galaxyaudio.com.

Frequency Band

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

System Components



DHTR Receiver





Two Antennas



Rack Ears



Manual

All systems include:

DHT Receiver Power Supply Two Antennas Rack Ears User Guide

HH64/HH64SC Handheld System includes:

Handheld Microphone Systems include the following: Handheld Mic Transmitter with HH64 Dynamic or HH64SC Super Cardioid Condenser. Interchangeable Heads HH64SC D

MBP76 Lav/Headset/HLC Systems include:

MBP76 Body Pack Transmitter. Mic (Choice of Uni Lavalier or Uni Headset)





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

LV-U3BK

DHT/76 Guitar system includes: MBP76 Body Pack Transmitter and

1/4" to Mini 3-pin Guitar Cable.





Guitar Cable

1

Functions of the DHTR Receiver

DHTR Receiver Features

Front Panel



11



HH64/HH64SC Handheld Transmitter



Functions:

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 about 8 hours.



MBP76 Body Pack Transmitter



Features

- 1 Antenna.
- 2 LCD panel.
 - Please see (System Setup) on Page 8.
- **3** Power/ASC/ Low Battery Indicator.
 - Constant Green: Power ON.
 - Flashing Green: IR ASC in progress, or Low Batteries.
- Mute Indicator.
 - Constant Red: Audio Muted.
- 6 Power/Mute Button.
- Push and Hold for Power On/Off. Push once for Mute On/Off. **6** IR Window.
 - Receives IR signals (ASC) to synchronize with Receiver.
- 7 Select Button.
 - Please see (System Setup) on Page 8.
- 8 3-pin Microphone Input Jack.
- 9 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 Back Pack Transmitter:

Clip the transmitter to a belt ①. 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 ②, 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.

System Setup











Receiver Programming

Group and Channel Selection: Press and Hold the SET button. The Group number will flash. Press \blacktriangle or \triangledown to choose the appropriate frequency group, as shown on the left (); press (SET) again , (CHANNEL) flashes, press \blacktriangle or \triangledown to choose the appropriate channel, as shown on the left (). 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 \blacktriangle or \triangledown 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 MBP76 Body Pack is located under the battery door while the IR window of the HH64 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 HH64 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.



HH64 and MBP76 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.

Setting up multiple receivers

Using the auto scan function to find clear frequencies for your DHT System



1)Power on any pre-existing wireless systems and transmitters except the first DHT system.

- 2)Power on the first DHT Receiver.
- 3)The Control and set buttons are on the front of the receiver.
- 4)Press the set button until the group number flashes on the LCD screen
- 5)Press the up/down buttons to select group 1.

6Press the set button twice to get to the scan mode.

- 7)Press the up or down button. The unit will now go into scan mode. You will probably see the RF meters light up if the scan sees other transmitters.
- 8)When it stops scanning, it will stop on the clearest frequency, and will be flashing the frequency on the LCD screen.
- 9)Press the set button and it will set itself to that frequency. Do not wait to press the set button as the DHT Receiver will revert back to the original frequency, and the process will need to be restarted
- 10)If the unit cannot find a good frequency within group 1, start the process again scanning group 2, if that is also not clear try group 3, and so on till you get a good frequency.

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

11)Turn the transmitter on, aim the red infrared window on the transmitter towards the one on the receiver and press the ASC button on the front of the receiver. The transmitter will sync to the receivers frequency.

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

Rack Mounting

Rack-Mounting the Receiver



Troubleshooting

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 MBP76 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 inter- ference (CD players, computers, in-ear monitor systems, etc.)
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.

Specifications

System

Frequency Range: CODE D 584~607 MHz CODE L 655~679MHz

Transmitter Output level: 10 dBm Band: UHF

Operating Range Under Typical Conditions: 300' Note: actual range depends on RF signal absorption, reflection, and interference.

Audio Frequency Response: (+/-3dB) 60Hz~16KHz

Total Harmonic Distortion (+/-30KHz deviation, 1KHz tone): ${\rm <1\%}$

Dynamic Range: >90dB A-weighted

Operating Temperature Range: 14°F to 122°F (-10° C to +50° C)

Note: battery characteristics may limit this range:

Receiver:

Audio Output Level: (+/-30KHz deviation, 1KHz tone) XLR connector (into 600 ohms load) -12dBV ¼" connector (into 3K ohms load) -18dBV

Output Impedance: XLR connector 2000hms 1/4" connector 1K ohms

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" (44mm H x 212mm W x 160mm D)

Weight: 31.75oz (900 g)

Power Requirements: 12-18 V dc at 400mA, 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: 470K ohms

Dimensions: 3.5" x 2.6" x 1" (89mm H x 65mm W x 24mm D)

Weight: 3.0oz (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. (242mm x 54mm dia.)

Weight: 10.6oz (300 g) (without batteries)

Power Requirements: 2 "AA" size alkaline or rechargeable batteries

Battery Life: About 6 hours



MAKERS OF THE ORIGINAL HOT SPOT PERSONAL MONITOR



THREE YEAR LIMITED WARRANTY

WARRANTY Information can be viewed online at http://www.galaxyaudio.com/warranty.php



www.galaxyaudio.com/warranty.php



Specifications in this manual are subject to change without notice. For the most up to date manual and information visit www.galaxyaudio.com.

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