

**TRC**

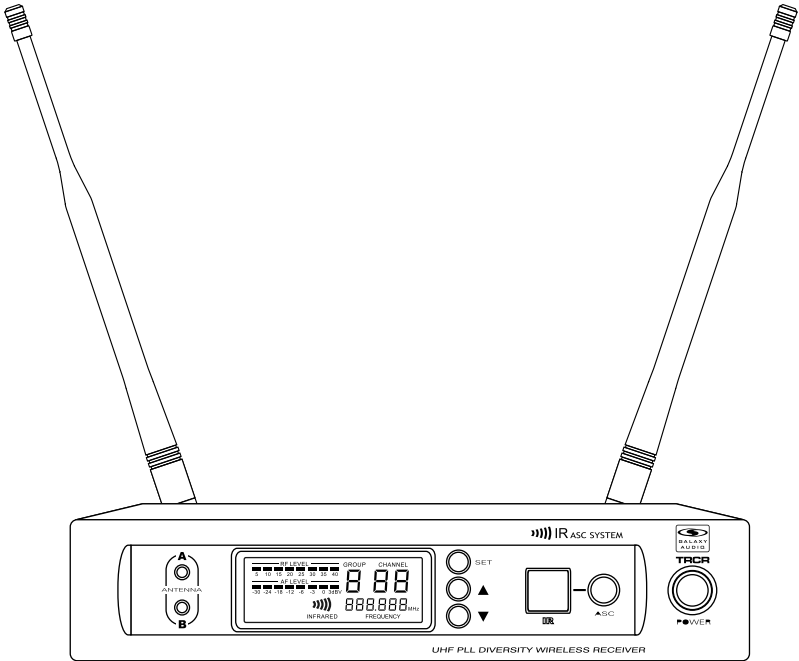
**UHF**



USER'S MANUAL

# **ANY SPOT**

**WIRELESS MICROPHONE SYSTEMS**



**MAKERS OF THE ORIGINAL  
HOT SPOT PERSONAL MONITOR**

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# TRC System

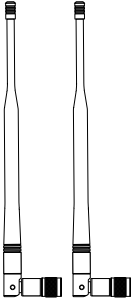
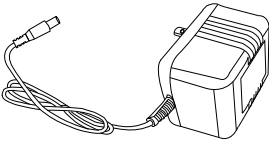
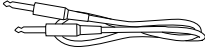
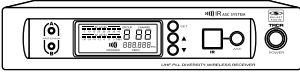
Congratulations! Welcome to the AS-TRC wireless mic system. To users who need to build an advanced UHF wireless system, the AS-TRC provides an excellent solution. With 120 frequency choices, the AS-TRC is ideal for various wireless applications such as live shows, broadcast, meetings, instrument pickups, etc. Touch buttons and liquid crystal displays provide a fast and simple system setup.

This User Guide will provide all the details you need to operate the system efficiently.

# System Components

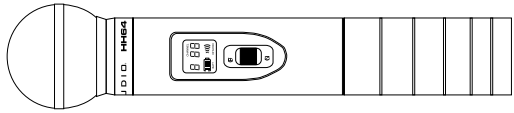
## All systems include:

- TRC Receiver
- One 1/4" Audio Cable
- Power Adapter
- Two Antennas
- User Manual



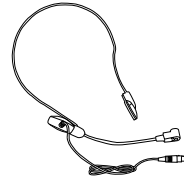
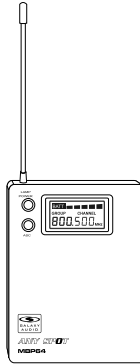
## Handheld Microphone Systems include the following:

- Handheld Mic Transmitter with HH64 Dynamic or HH64SC Super Cardioid Condenser, Interchangeable Heads

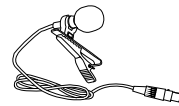


## Lavalier/Headset Microphone Systems include the following:

- MBP64 Bodypack Transmitter
- Microphone (choice of Lavalier or Headset Mic)



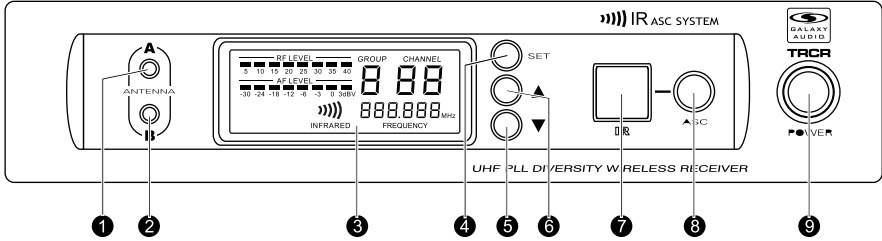
**AS-H5**



**AS-LV**

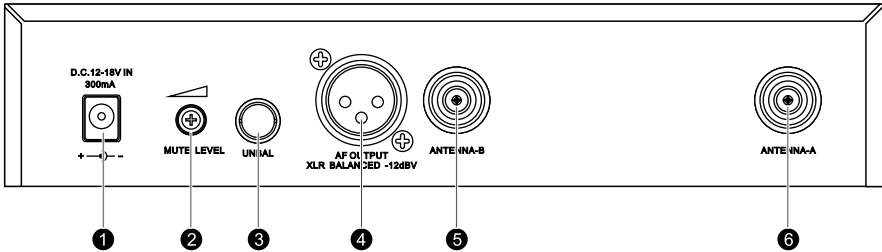
# Functions of the TRC Receiver

## Front Panel



- 1 Antenna A LED.  
When lit, Antenna A is active.
- 2 Antenna B LED.  
When lit, Channel B antenna is active.
- 3 LCD Panel.  
Please See " system setup" on page 7.
- 4 System setting button.  
Please See " system setup" on page 7.
- 5 DOWN button of the System Menu.  
Please See " system setup" on page 7.
- 6 UP button of the System Menu.  
Please See " system setup" on page 7.
- 7 IR window.  
This window sends an infrared signal to the transmitter for frequency synchronization.
- 8 Synchronizing signal transmit button  
Press this button to establish infrared connection between the receiver and transmitter.
- 9 Power switch  
Press and Hold for Power On/Off.

## Rear Panel

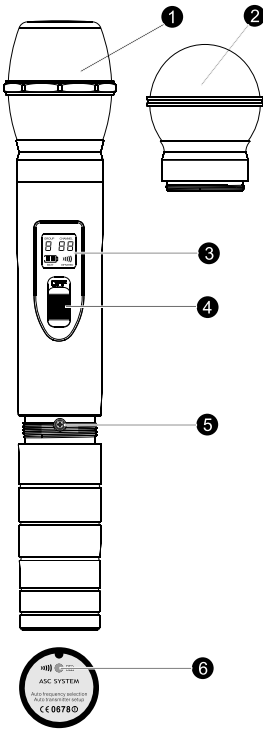


- 1 Power Adapter Connection. Use only supplied adapter or equivalent.
- 2 Fine adjustment of mute threshold level.  
Use this to set the threshold of the mute, which is factory set and usually does not need to be adjusted. If there are any interference signals, this threshold value can be increased by turning the knob clockwise until RF signal lamp goes out.
- 3 ¼" Audio Output Jack.
- 4 XLR Audio Output.
- 5 Antenna Jack B 50 ohm.
- 6 Antenna Jack A 50 ohm.

# Handheld Transmitter

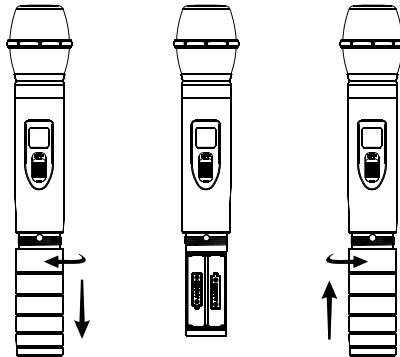
## Functions:

- ❶ Condensor mic
- ❷ Dynamic mic
- ❸ LCD screen  
Please See "system setup " on page 7.
- ❹ Power Switch
- ❺ Microphone Input Sensivity Control.  
Left turn for output level decrease, right turn for output level increase.
- ❻ IR port Receivers infrared beam to synchronize frequencies.



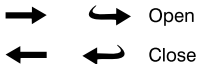
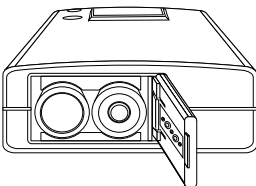
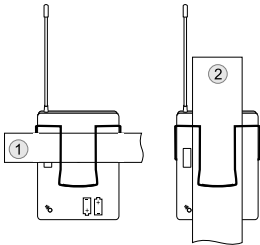
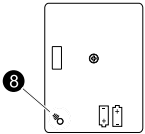
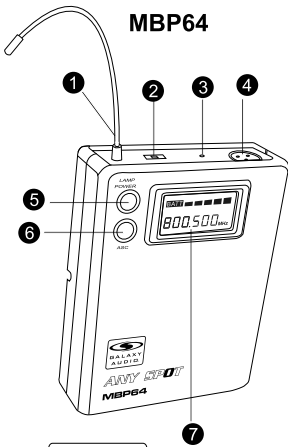
## Changing Batteries:

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.



## BodyPack Transmitter

MBP64



## Functions:

- ❶ Antenna.
- ❷ Gain Switch.  
There are three Gain settings on the MBP64. Select the setting most suitable to your application.  
Mic: Microphone Level  
0: Guitar Level  
-10dB: Line Level
- ❸ Low Voltage/IR Transmission LED.  
LED On: Battery Voltage OK.  
LED Off: the Battery Voltage is Low.  
Flashing LED: IR transmission is in progress
- ❹ 3-pin Input Jack.
- ❺ Power/Backlight Control button  
Press and Hold for Power On/Off.  
Press and Release for Back-light On/Off.
- ❻ ASC Frequency Synchronization Button.  
Press this button to automatically set the Transmitter frequency to match that of the Receiver. Use in conjunction with Receiver's ASC control.
- ❼ LCD screen  
See "system setup" on page 7.
- ❽ IR Window Point this window towards IR window on Receiver during ASC frequency synchronization.

## How to Wear the Bodypack Transmitter:

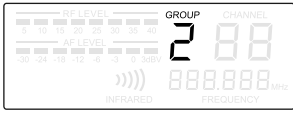
Slide the transmitter clip onto the belt ❶ or run a guitar strap through the transmitter clip ❷, as shown in the diagram at left.

## Battery Replacement :

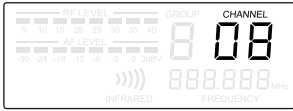
The life expectancy of two alkaline batteries is about six hours. When the BATT indication symbol on the display screen is flashing as shown in the diagram below, the batteries should be replaced immediately, as shown in the diagram on the left.



# System Setup



①



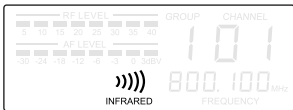
②



③



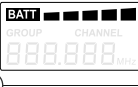
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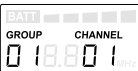
⑤

Handheld transmitter

Bodypack transmitter



①



②



③

## TRC Receiver Setup:

### Frequency Group No. and Channel No. selection:

Press " SET " key, and " GROUP " will flash. Press ▲ or ▼ key to select suitable frequency group number, as shown in Diagram ① on the left. Then press " SET " key, and " CHANNEL " flashes. Press ▲ or ▼ key to select suitable channel, as shown in Diagram ② on the left.

Note: when using several systems, you may set all the systems to the same group number, and then set a unique channel for each system in this group.

### Receiver Volume Control:

This device features an electronic volume control system. Under the normal screen, press ▲ or ▼ key to control the output volume of the receiver (there are 64 volume levels) as shown in Diagram ③ on the left.

### Normal Display:

RF level, Audio Level, Group Number, Channel, and Frequency, as shown in Diagram ④ on the left.

## Automatic Transmitter Frequency Setting (ASC): HH64 Handheld Transmitter:

Point its IR window towards the IR window on the Receiver. Press the " ASC " key on the Receiver. Verify the frequencies match.

### MBP64 Bodypack Transmitter:

Point the IR window of the Bodypack Transmitter towards the IR window of the Receiver. Press " ASC " key on the Receiver and then the " ASC " key of the Bodypack Transmitter. Verify the frequencies match.

Whenever the " ASC " key of the receiver is pressed, synchronizing signal will be transmitted continuously for 25 sec, and " INFRARED " symbol on the screen also flashes, as shown in Diagram ⑤ on the left.

When the infrared receiving circuit is enabled, " INFRARED " symbol on the Handheld Transmitter will flash and the entire display screen of the Bodypack Transmitter will flash (the infrared transmission indicator lamp will also flash at the same time).

Notes: when establishing infrared connection between the receiver and the transmitter, the distance between them should not exceed 0.5m. When more than one system are used, only IR window of one transmitter should be pointed to the receiver for each infrared connection.

## Transmitter Status Indications:

### Battery voltage indication:

There are five battery voltage level indicators for the Handheld Transmitter, and there are six battery voltage level indicators for waist worn transmitter, as shown in Diagram ① on the left.

### Group Number and Channel Number Indication:

After the infrared connection between the receiver and the transmitter is completed, the same group number and channel as those of the receiver will be indicated on the Handheld transmitter, and the display screen of the Bodypack Transmitter will give a 5-sec steady indication of the Group and Channel Numbers, as shown in Diagram ② on the left. Then it returns to normal status indications.

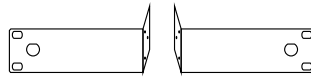
### Normal Indications on the Display:

Battery voltage, group number and channel are displayed on the Handheld Transmitter, and battery voltage and frequency are displayed on the

Bodypack Transmitter, as shown in Diagram ③ on the left.



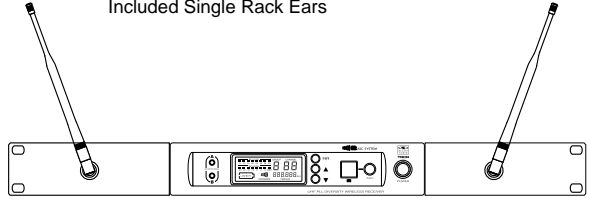
## Rack-Mounting the Receiver



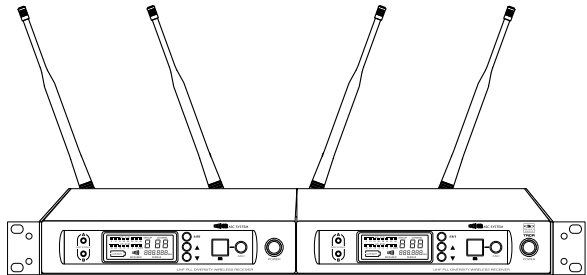
Included Single Rack Ears



Two TNC connecting cables (optional)  
Two TNC connectors (optional)



Optional Rack Shelf  
for mounting two Receivers  
side by side.  
**MRTD/P/T**



# Troubleshooting

## Tips for improving System Performance

Maintain a line of sight between transmitter and antenna.

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 Bodypack.)
	Receiver indicates No RF. Transmitter LCD 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.)
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 - 607MHz  
Code L 655 - 679 MHz

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)**  
70Hz-16KHz

**Total Harmonic Distortion (+/-30KHz deviation , 1KHz tone):** <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:

## Bodypack Transmitter:

**Max Audio Input Level:**  
0dBV to +10dBV

**Gain Adjustment Range:** 20dB

**Input Impedance:** 470KΩ

**Dimensions:** 3.3" x 2.6" x 1"  
(85mm H x 65mm W x 24mm D)

**Weight:** 3.1oz (88 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:** 9.6" x 2" dia. (243mm x 50mm dia.)

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

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

**Battery Life:** About 6 hours

## 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:** -94dBm for 30dB

**Image Rejection:** >80dB

**Dimensions:** 1.7" x 8.3" x 6.3"  
(44mm H x 212mm W x 160mm D)

**Weight:** 32.5oz (920g)

**Power Requirements:**  
12-18 V dc at 400mA, supplied by external power supply.

# LIMITED WARRANTY

**A RETURN AUTHORIZATION (RA) NUMBER MUST BE OBTAINED** from Galaxy Audio prior to any items being returned to Galaxy Audio for return or repair. Contact customer service @ (800)369-7768. **Galaxy Audio warrants the materials and workmanship of its products as follows:**

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1. HOT SPOTS-including HSRG, HSVC, PA5XD & GALACTIC MONITOR PACKAGE
2. MICRO SPOTS-including MSVC, MSPM, MSPA(DC)
3. CRICKET Polarity Test Set
4. JACKS IN THE BOX – including the MULTI MIXER
5. Hot Spot Accessories

**A limited ONE YEAR Warranty applies to the following products:**

1. CHECKMATE Series-including CM130, CM140, CM150, CM160, CM-C200 and accessories
2. ANY SPOT Series-including AS-1000(R)(T), 500 & 700 SERIES, TOUR GUIDE/TRANSLATOR SYSTEMS, WIRELESS CAMERA KIT
3. ANY SPOT Accessories & Components
4. TRAVELER SERIES-including ANY SPOT TRAVELER, WIRELESS SPEAKERS, WIRED PA SYSTEM PACKAGES, TRAVELER WECHO
5. TRAVELER Accessories

**The following are not covered by the warranty:**

1. Damage to or deterioration of the exterior of the item which occurs after delivery
2. Damage after initial delivery resulting from accident, misuse or neglect
3. Damage resulting from failure to follow instructions contained in the owner's manual
4. Damage resulting from the performance of repairs by someone other than the Galaxy Audio repair department
5. Damage occurring during the shipment or delivery of any Galaxy Audio product to Galaxy Audio after initial delivery of the product to you.
6. Damage to any Galaxy Audio product which has been altered or on which the serial number has been effaced or removed.
7. Damage to or deterioration of the exterior of the item which occurs after delivery

Galaxy Audio does not authorize any third party including any dealer or Service Center to assume any liability on behalf of Galaxy Audio or to make any warranty for Galaxy Audio

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**The Galaxy Audio warranty policy is to repair and return defective merchandise.** Items under warranty may be replaced at no charge if deemed un-repairable by the Galaxy Audio technician. Proof of purchase may be required to verify warranty status. Customer will be responsible for shipping charges to repair facility, repaired product will be returned shipping prepaid by Galaxy Audio. Freight charges will not be reimbursed. Credit for defective warranty merchandise must have authorization from the Galaxy Audio main office before credit will be issued and will be subject to applicable restock and replacement charges. A twenty (20%) restock fee will apply to warranty items returned for credit. The cost of replacement parts to bring the item back to "like new" condition will also be deducted from credit for warranty items

## DEFECTIVE MERCHANDISE POLICY-NON WARRANTY

**A RETURN AUTHORIZATION (RA) NUMBER MUST BE OBTAINED** from Galaxy Audio prior to any items being returned to Galaxy Audio for return or repair. Contact customer service @ (800)369-7768. Repair charges are \$30.00 per hour (no minimum) plus parts. Customer will be responsible for all shipping charges. Prepayment is expected if customer is not set up with open account terms in advance. Discounts are not applicable on repairs. Open account terms for repairs will be Net Thirty (30) days. Some items past the warranty time period may qualify for a standard replacement cost. Please contact Galaxy Audio for more information.

