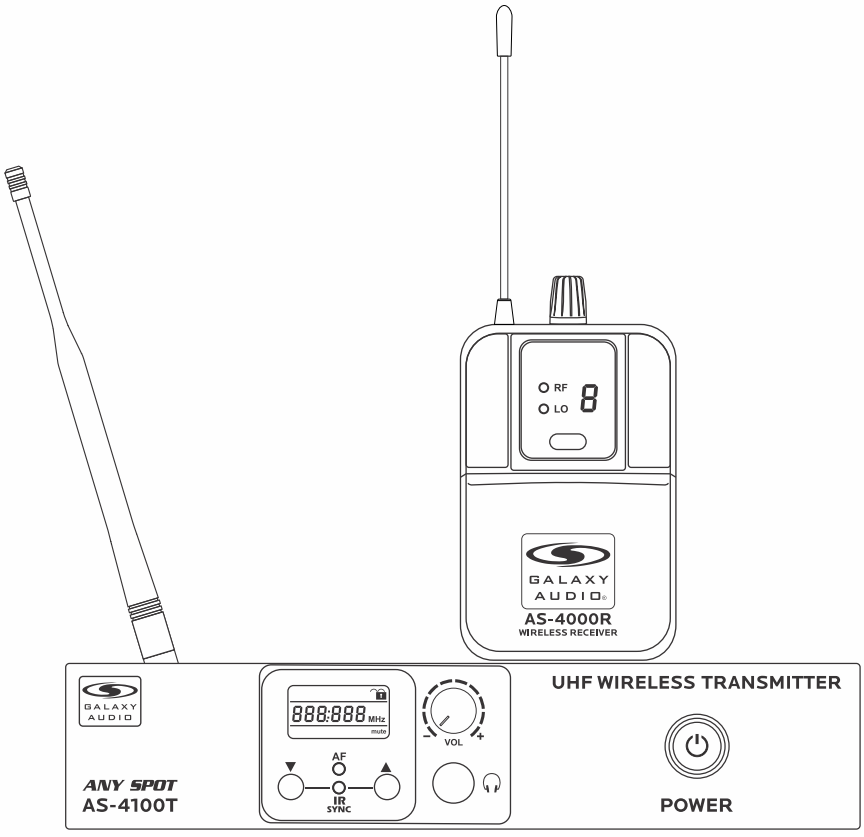
AS-4100

AS-4100 UHF In-Ear Monitor System

USER'S MANUAL

ANY SPOT®

WIRELESS IN-EAR MONITOR SYSTEM



www.galaxyaudio.com/products/as-4100

GALAXY AUDIO®

AMPLIFY YOUR PASSION™

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GALAXY AUDIO®

Contents

Introduction

Thank you for choosing a Galaxy Audio professional wireless in-ear monitor system. You have joined the ranks of countless satisfied customers. Our years of professional experience in design and manufacturing ensure our products' quality, performance and reliability.

1. Introduction

1. EIA-standard metal materials half - rack transmitter chassis
2. Durable, ergonomic lightweight plastic body Receiver.
3. 16 Selectable UHF frequencies
4. IR Sync Frequency from Transmitter to Receiver
5. Designed to provide incredible audio quality and reliable performance for artists, broadcasters and other demanding audio environments.

2. Transmitter Installation and Connections

Installation

1. For better operation the transmitter should be at least 6ft. (2m) above the ground and at least 6ft. (2m) away from a wall or metal surface to minimize reflections.
2. Keep antennas away from noise sources such as computer, digital equipment, motors, automobiles and neon lights, as well as away from large metal objects.
3. Antenna are normally positioned 45° from vertical for best transmission.
4. Keep open space between the receiver and transmitter for better reception.
5. The transmitter should be at least 6ft. (2m) from the receiver.

Connections:

1. Power to the unit is controlled by the front panel power switch.
2. The transmitter channel has a 1/4" balanced input connector.
   Use the appropriate shielded audio cable for connections between the transmitter and the output of the mixer or other audio output equipment.

USING THIS SYSTEM AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE.

WARNING!

In order to use this system safely, avoid prolonged listening at excessive sound pressure levels. Please use the following guidelines established by the Occupational Safety Health Administration (OSHA) on maximum time exposure to sound pressure levels before hearing damage occurs.

90 dB SPL at 8 hours
95 dB SPL at 4 hours
100 dB SPL at 2 hours
105 dB SPL at 1 hour
110 dB SPL at ½ hour
115 dB SPL at 15 minutes
120 dB SPL — avoid or damage may occur

It is difficult to measure the exact Sound Pressure Levels (SPL) present at the eardrum in live applications. In addition to the volume setting on the Personal Monitors, the SPL in the ear is affected by ambient sound from floor wedges or other devices. The isolation provided by the fit of quality earpieces is also an important factor in determining the SPL.

Here are some general tips to follow in the use of this product to protect your ears from damage.

- Turn up the volume control only far enough to hear properly.
- Ringing in the ears may indicate that the gain levels are too high. Try lowering the gain levels.
- Have your ears checked by an audiologist on a regular basis. If you experience wax buildup in your ears, stop using the system until an audiologist has examined your ears.
- Wipe the ear molds with an antiseptic before and after use to avoid infections. Stop using the earphones if they are causing great discomfort or infection.

! IMPORTANT SAFETY INSTRUCTIONS !

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
13. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
15. Remove the batteries from the receiver if the system will not be used for a long period of time. This will avoid any damage resulting from a defective, leaking battery.
16. DO NOT throw used batteries into a fire. Be sure to dispose of or recycle used batteries in accordance with local waste disposal laws.

LICENSING INFORMATION

THIS RADIO EQUIPMENT IS INTENDED FOR USE IN PROFESSIONAL ENTERTAINMENT AND SIMILAR APPLICATIONS.

Changes or modifications not expressly approved by Galaxy Audio Incorporated could void your authority to operate the equipment. Licensing of Galaxy Audio wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. Galaxy Audio strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

NOTE: THIS EQUIPMENT MAY BE CAPABLE OF OPERATING ON SOME FREQUENCIES NOT AUTHORIZED IN YOUR REGION. PLEASE CONTACT YOUR NATIONAL AUTHORITY TO OBTAIN INFORMATION ON AUTHORIZED FREQUENCIES FOR WIRELESS MICROPHONE PRODUCTS IN YOUR REGION

Licensing: Note that a ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements.

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

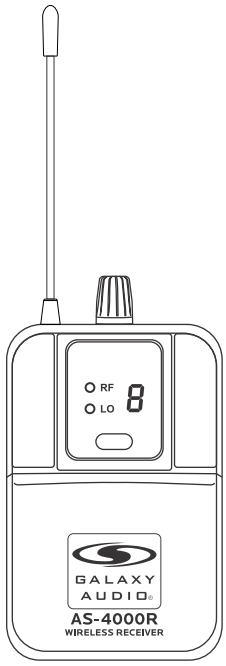
Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it 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

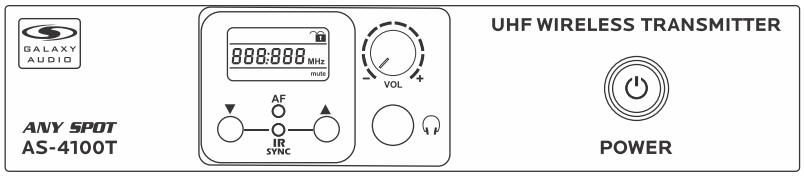
System Components

All AS-4100 systems include the following components:

AS-4100T Transmitter
AS-4000R Receiver
EB5 Ear Buds
Power Supply
Antenna
1/4" Audio Cable
Quick Start Guide



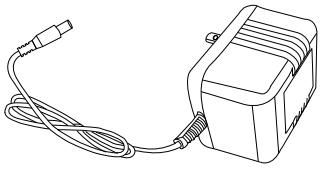
AS-4000R
Body Pack Receiver



AS-4100T Transmitter

Antenna

EB5
Ear Buds



PS-4100T
Power Supply

Quick Start Guide

What You Need for Rack Mounting:
(Not Included)

1. Rack Screws 10/32 x 0.75",
Phillips Truss Head Screws

2. #2 Phillips Head
Screwdriver

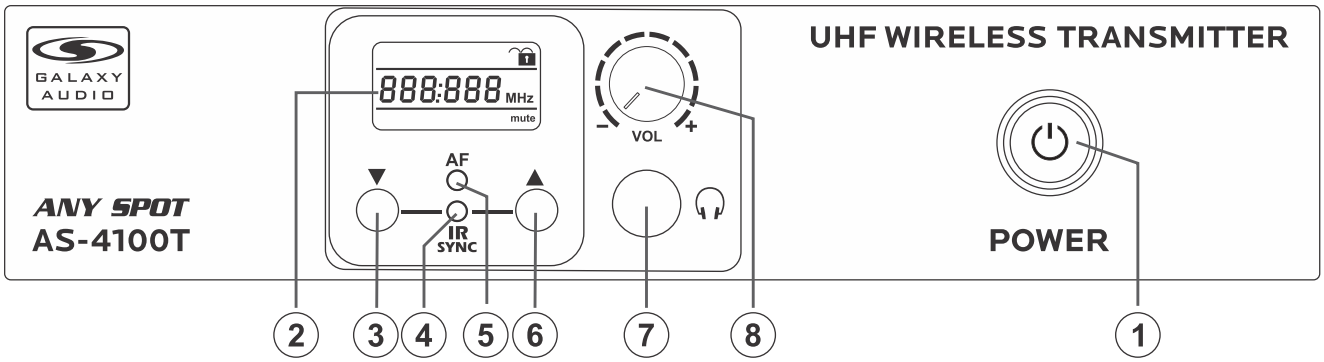
System Features

UHF CODE M3, 508-535MHz or CODE M4, 534-551MHz
Mono Audio Output
16 Selectable Frequencies
IR Sync Frequency from Transmitter to Receiver
LCD Display
EIA Standard 1U Rack-Mountable
Up to 160' (50m) Operating Range
Used in Live sound, Stage performing, Schools, Houses of Worship, and more...

AS-4100 Wireless In-Ear Monitor System Transmitter

Transmitter Features:

Front Panel



(1) - Power Switch: Press to switch on, Press again to switch off.

(2) - LCD Screen Channel Display

(3) - DOWN button Adjust the frequency, channel degressively

(4) - IR Sync (Infrared) port Sends IR signal to transmitter

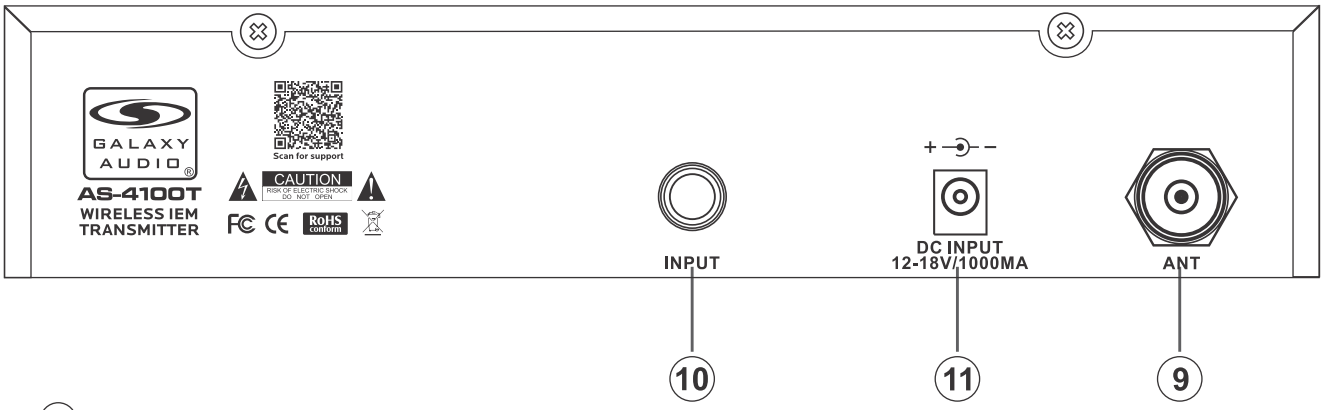
(5) - AF Audio Frequency Indicator.

(6) - UP button Adjust the frequency, channel incrementally

(7) - Headphone Jack - Headphone Output Connector 1/4" (6.3 mm) Jack

(8) - Headphone Volume Control - Adjusts the headphone level

Back Panel



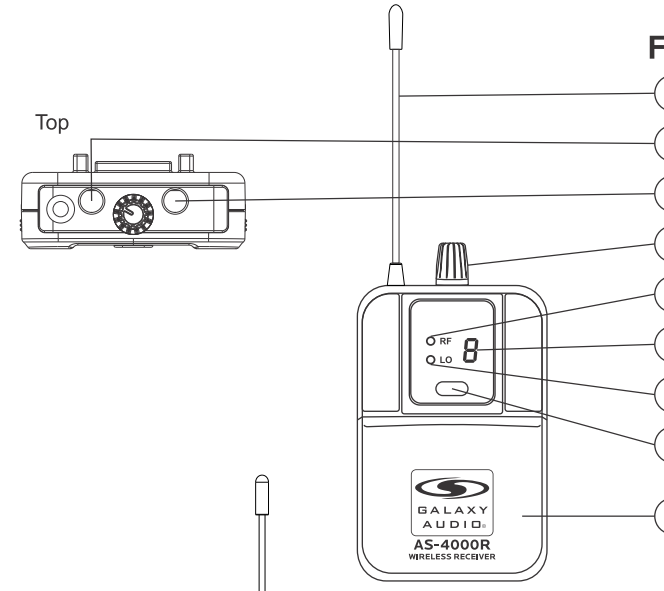
(9) - BNC Antenna Socket

(10) - 1/4" inch (6.3 mm) Audio Input Jack Connect the Input Source, Mixer, Computer

(11) - Power Supply Jack (DC12- 18V / 1000mA)

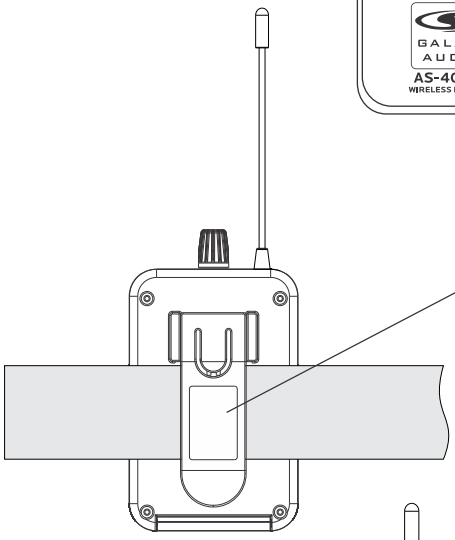
AS-4000 Wireless In-Ear Monitor Body Pack Receiver

Body Pack Receiver Features:



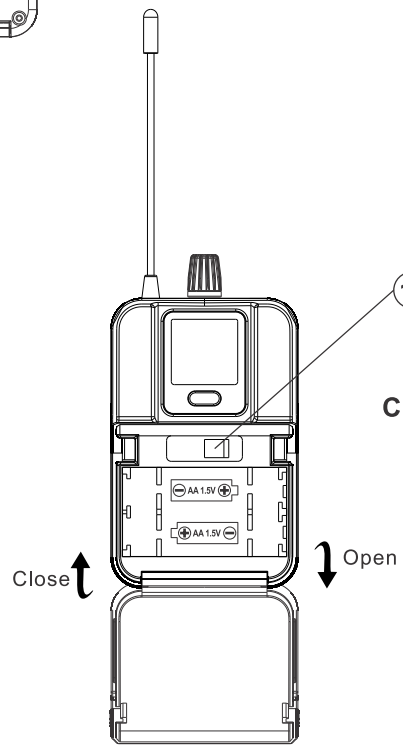
Features:

1. - Antenna
2. - Line Audio Output 1/8" (3.5mm)
3. - Earbud Audio Output 1/8" (3.5mm) audio output
4. - Volume Control
5. - RF Indicator
6. - LED Channel Display
7. - Low Battery Indicator
8. - Power switch press and hold to Power ON.
   Press and hold to power OFF.
9. - Battery Compartment: To replace batteries lightly press the marked positions on the right and left side of the cover and open forward. Be sure to place the batteries in the right polar positions (Two AA 1.5VDC Alkaline recommended)
10. - Belt Clip



Wearing the Body Pack Receiver

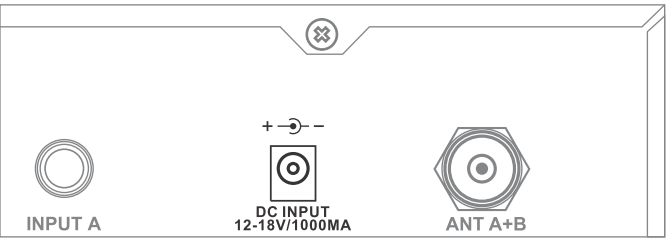
Belt Clip: For best results, clip the receiver onto a belt by pushing the receiver down onto the belt as far as possible.



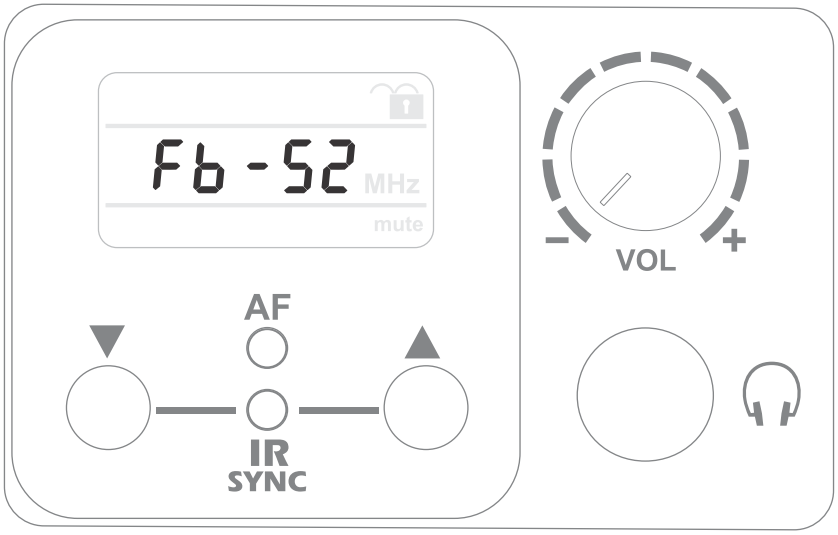
11. - IR infrared port receives infrared beam to synchronlze frequencies, hold the receiver with its IR port facing directly to transmitters IR port in a distance between 2 to 8 Inches (5-20cm)

Changing Batteries

Expected life for two **AA** Alkaline batteries is approximately 8 hours. Open front battery door and replace batteries in the polarity shown in battery compartment.

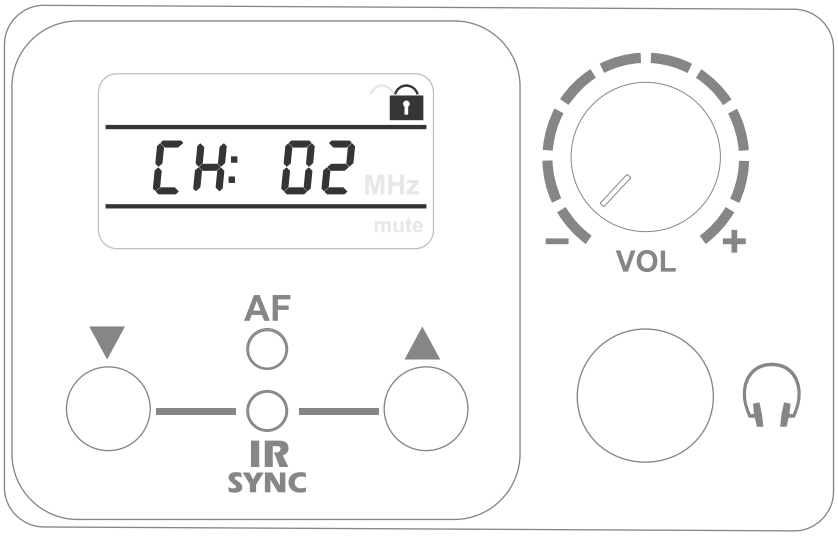


1.Connect the adaptor to the transmitter's DC power input, plug the power supply into an AC power outlet and press the power button to turn on.



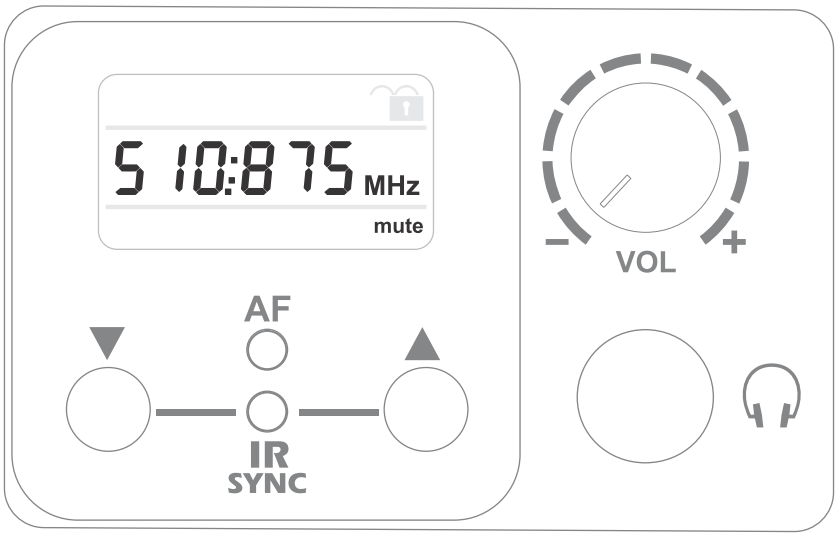
The following screen will appear.
Remark: Fb=frequency band
52=508-535MHz
54=534-551MHz

This screen means the frequency of the transmitter

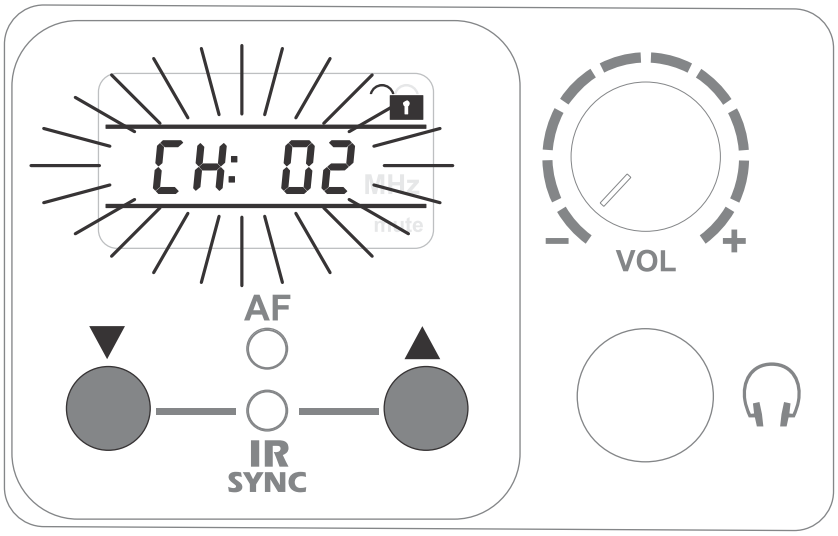


2. Channel Display

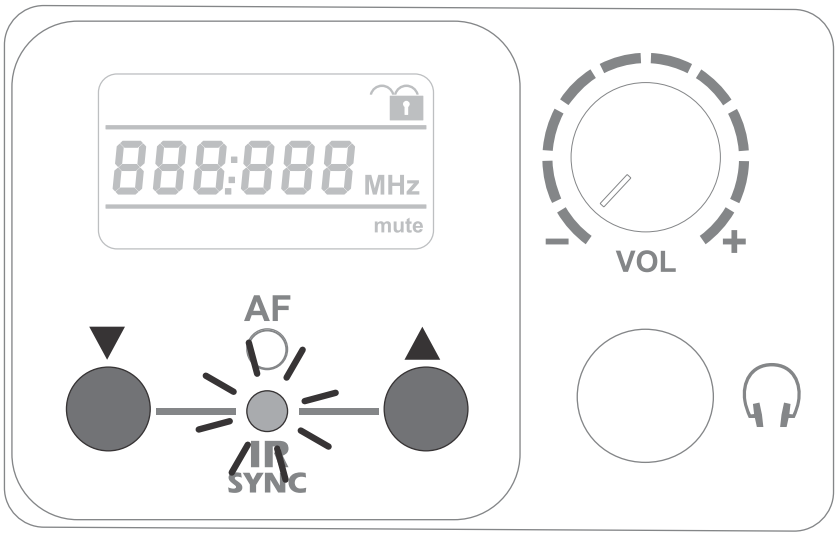
This shows the current Channel number of the Transmitter



The Frequency will show for only a few seconds after the Channel display and will return to the Channel display.



3. Channel Adjustment.
Press and hold either the up or down button until the channel number begins flashing, you can then use the up or down button to select the desired channel

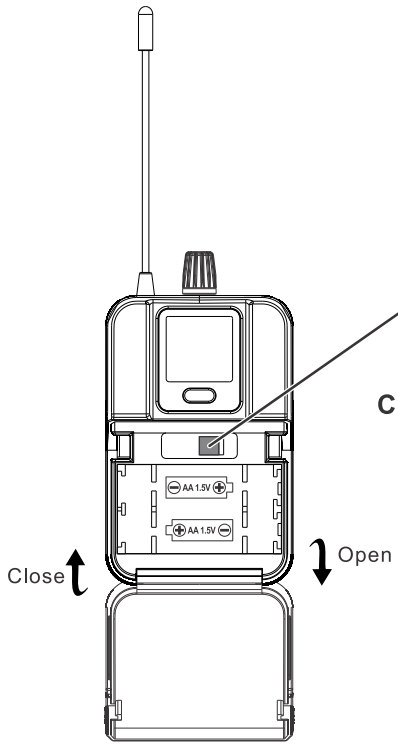


4. IR Sync
Press and hold both the up and down buttons simultaneously for about 3 seconds.

The IR sync LED will begin to flash.

While flashing, hold the receiver about 6" away, with its IR window facing the transmitter's flashing LED.

The receiver will then change to the same channel selected on the transmitter.



IR Infrared Port - Receives infrared beam to synchronlze frequencies, hold the receiver with its IR port facing directly to transmitters IR port in a distance between 2 to 8 Inches (5-20cm)

Changing Batteries
Expected life for two AA Alkaline batteries is approximately 8 hours. Open front battery door and replace battereries in the poliraty shown in battery compartment.

Specifications

System

Band: UHF
Frequencies: 16 Selectable Frequencies
Frequency Range: CODE M3, 508-535MHz
CODE M4, 534-551MHz
Operating Range: Under Typical Conditions 160' (50m)
Note: actual range depends on RF signal absorption, reflection, interference, and battery characteristics.
Operating Temperature Range: 14°F to 122°F (-10° C to +50° C)
Note: battery characteristics may limit this range

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Frequency Page

Please click or scan the QR for the most current frequency information.

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

AS-4100 Transmitter

Display: Backlit LCD
Modulation Mode: Mono
RF Output: 30 mW
Audio Frequency Response: 60Hz-17KHz +/-3dB
Total Harmonic Distortion: <0.5% @ 1 KHz
Max Audio Input Level: +6dBV
Controls: Headphone Volume, Up/Down, and Power Button
Audio Input: Line Level, 1/4" (6.3mm) Jack
Antenna: BNC
Dimensions: 1.73" x 8.34" x 3.77" (44 x 212 x 96 mm) (HxWxD)
Weight: 19.75 oz (560 g)
Power Supplied By: 1DC 12V-18V/1000mA supplied by external power supply

AS-4000R Receiver (Belt Pack)

Display: Backlit Digital LED
Frequency Pairing: IR Sync
Audio Output Level: >65mW
Output Connector: 1/8" (3.5mm) Line Out Ear Bud Connector
Controls: Power, Volume
Indicators: LCD Display, RF LED
Power Supplied By: 2 (AA) Size Alkaline or Rechargeable Batteries
Battery Life: About 8 hours (alkaline)
Dimensions: 3.8" x 2.4" x 8.26" (96 x 62 x 210mm)(WxDxH)
Weight: 2.4 oz (65 g) without batteries

Parts and Accessories

Many of these parts and accessories may be found and purchased from the Galaxy Audio website in the Galaxy Store (www.galaxyaudio.com/parts-and-accessories).

EXTBNC - BNC Cable for front remote mounting the antennas on the AS-4100. For lengths available: 18", 25', 50',

CN-BNCPM - BNC Connector for front mounting the antennas on the AS-4100.

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.

ANT4100T - Replacement BNC Antenna for use with Galaxy Audio Wireless Personal Monitors. (Part number will vary based on the Frequency Code of specific unit)

PS-4100T - 1000mA Replacement Power Supply for AS-4100

AS-UA12-14.5 - 1000mA Universal Power Supply for Replacement Power Supply for AS-900, AS-950, AS-4100, AS-4400, AS-1100, AS-1200, AS1400, AS-1800, EDX, ECM, PSE, DHX, DHXR4, & CTS. Includes adapters for most other countries.

EB5 - Ear buds with 1/8" - 3.5mm Jack.

EB5S - Replacement Sleeves for EB5 Ear Buds. 5 pair in each pack. Available in Small, Medium, or Large.

Wireless Tips

Maintain line of sight between the transmitter and receiver antennas.

Do not have walls, metal objects, large crowds, etc. blocking the line of sight between the transmitter and receiver.

Antennas on the stationary equipment should be kept 6-8' above the ground.

Antennas can be mounted on stands or walls using brackets such as the ANT-LB.

On body pack receivers/transmitters, avoid putting them in your pocket, and/or folding the antenna under the pack. The antenna should hang freely and openly.

Keep the distance between transmitters and receivers as short as possible.

If distances above 20-30' are unavoidable, directional antennas such as the ANT-PDL can improve reception by rejecting signals outside their pickup angle.

Find out what TV stations are broadcasting in your area and avoid the channels they are on.

This information is available from many sources on line, such as https://www.fcc.gov/media/engineering/dtvmaps.

If your receiver is showing that it is receiving RF when your transmitter is turned off, you need to move to another frequency.

If you are using several systems, you can contact service@galaxyaudio.com for assistance in frequency coordination.

Make certain you are using fresh batteries, rechargeable batteries may be used, but they discharge at a much faster rate than alkaline.

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THREE YEAR LIMITED WARRANTY

WARRANTY Information can be viewed online at https://www.galaxyaudio.com/support/warranty

www.galaxyaudio.com/support/warranty

AS-4100

USER'S MANUAL

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

1-800-369-7768 www.galaxyaudio.com

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