ASD-700

USER'S MANUAL
ANY SP●T®
DIGITAL
EASY PLUG & PLAY
WIRELESS IN-EAR
MONITOR SYSTEM

ASD-700T

UHF IEM
RECEIVER

AUX

LINE

CH+

POWER

ASD-700R

POWER   CH+

3* YEAR WARRANTY

AMPLIFY
YOUR
PASSION™

GALAXY AUDIO®

Contents

Introduction

Thank you for choosing a Galaxy Audio digital 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. Compact rechargeable wireless XLR Transmitter
   2. Durable, compact body Receiver with soft-touch controls.
   3. 15 Selectable UHF frequencies
   4. 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 3ft. (1m) above the ground and at least 3ft. 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. Keep open space between the receiver and transmitter for better reception.

⚠ **WARNING!**

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

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

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. ONLY USE attachments/accessories specified by the manufacturer.
8. UNPLUG or DISCONNECT this apparatus during lightning storms or when unused for long periods of time.
9. 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.
10. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
11. 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

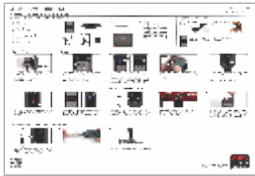**All ASD-700 systems include the following components for single systems:**

1. ASD-700R
2. ASD-700T
3. XLR to 1/4" Adapter
4. EB5 Ear Buds
5. Dual USB-C Charging Cable
6. USB Power Supply
7. Case
8. Quick Start Guide

Twin Pack System Components

**ASD-700-2 Twin Pack Systems include the following components:**

1. ASD-700R x (2)
2. ASD-700T
3. XLR to 1/4" Adapter
4. EB5 Ear Buds x (2)
5. Dual USBC Charging Cables (2)
6. Dual Port USB Power Supply
7. Case
8. Quick Start Guide

Band Pack System Components

ASD-700-4 Band Pack Systems include the following components:

1. ASD-700R x (4)
2. ASD-700T
3. XLR to 1/4" Adapter
4. EB5 Ear Buds x (4)
5. Dual USBC Charging Cables (3)
6. Dual Port USB Power Supply (2)
7. Case (2)
8. Quick Start Guide
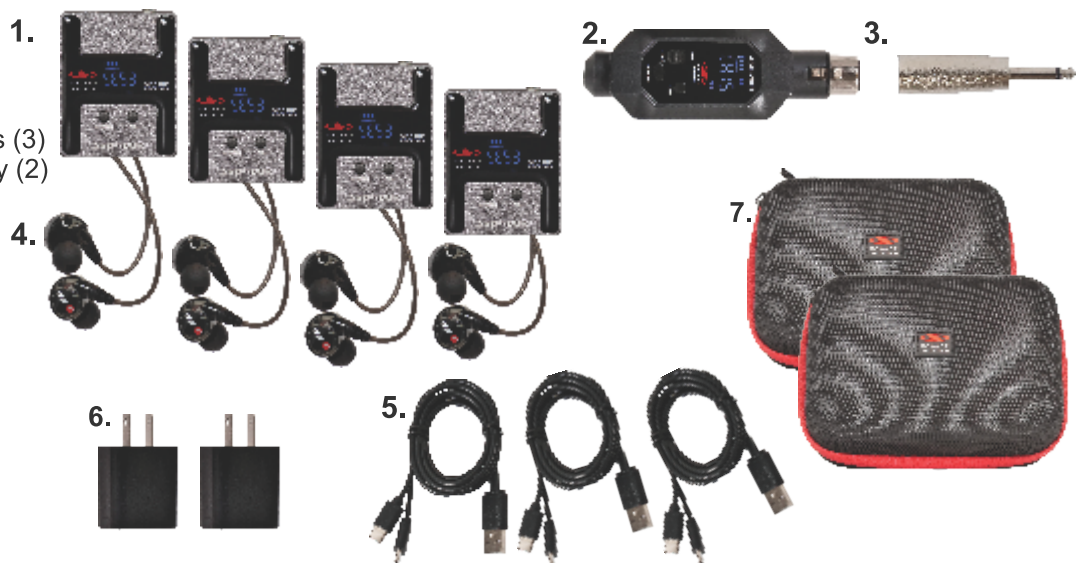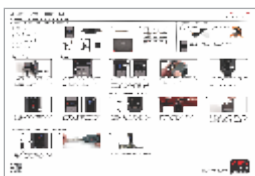
## ASD-700T Wireless In-Ear Monitor Transmitter

Transmitter Features:

① - Power Switch: Press an hold to switch ON, LCD Display will light up. Press and hold again to switch OFF.

② - Input Sensitivity AUX or Line Level

③ - Channel Select Button

④ - LCD Screen Displays Channel, Frequency, & Battery Level

⑤ - XLR Push Latch

⑥ - XLR Input: Impedance balanced
Pin: 1 Ground (cable shield)
Pin: 2 Audio +
Pin: 3 No Audio -

⑦ - USB-C Charging Port

Battery Life → | ← **RF/Level Signal**

← **Channel & Frequency**

MHz
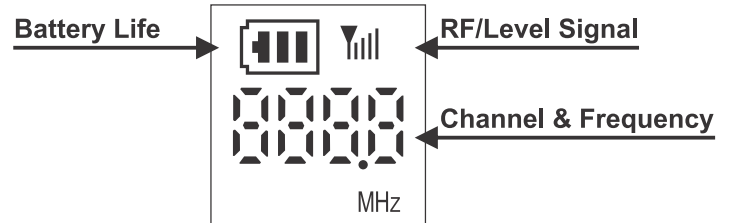
ASD-700R Wireless In-Ear Monitor Body Pack Receiver

Body Pack Receiver Features:
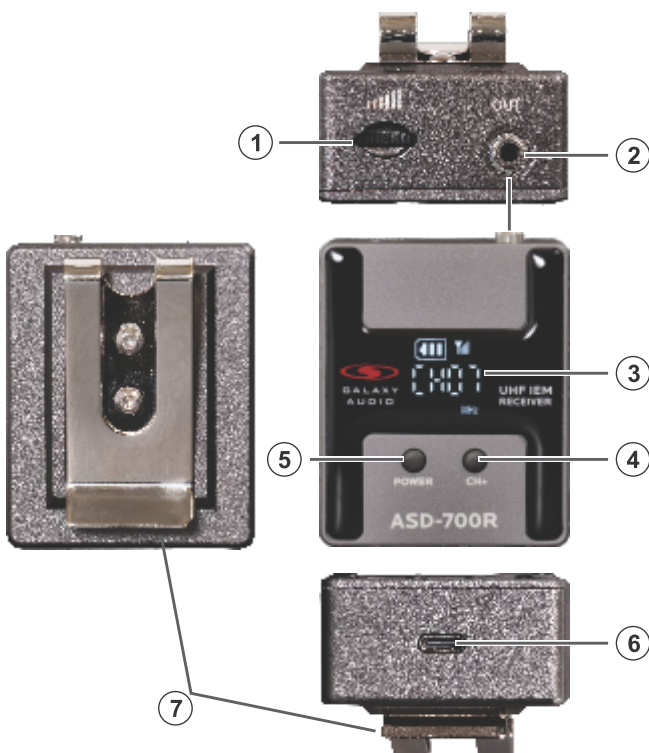
Features:

① - Volume Control

② - Headphone/Earbud Output Jack 1/8" (3.5 mm)

③ - LCD Screen Displays Channel, Frequency, RF Level/Signal Strength, & Battery Level

④ - Channel Select Button

⑤ - ON/OFF Switch Push and Hold for Power ON & OFF

⑥ - USB-C Charging Port

⑦ - 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.

Battery Life → | ← **RF/Level Signal**

← **Channel & Frequency**

MHz

4
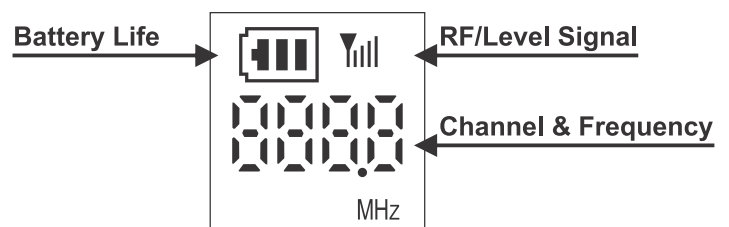
Before first use, with both units off, charge both your Transmitter and Receiver with the included USB Power Supply and dual USB-C charging cable.

Note: Transmitter and Receiver can be charged using most any USB-C cable or USB power source.

Included Dual USB C Charging Cables and USB Power Supply.

Fully Exhausted take about 3 hours to recharge.

Battery Life | Estimated Recharge Time

	3 Hours
	1.5 to 2 Hours
	1 Hour to 30 Minutes
	Full Charge

ASD-700R Receiver (Power ON)

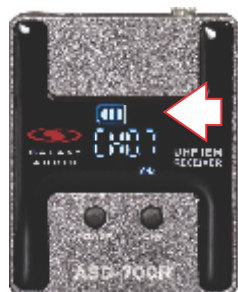Turn ON <u>Only</u> the Receiver by holding the Power button for 2 to 3 seconds. The Receiver will briefly display "ON" before displaying the set frequency.

Again, be sure the ASD-700T Transmitter power is OFF.
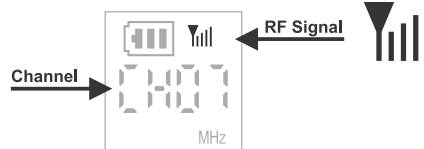
ASD-700R Receiver Channel Select

CLEAR CHANNEL   **INTERFERENCE**

On the Receiver push and hold the **CH+** button for 2 to 3 seconds to enable selection mode and set to a clear channel by selecting a channel that is <u>NOT</u> displaying the RF Signal Indicator.

RF Signal

Channel

With the Transmitter OFF, RF Signal on the Receiver would indicate interference and you should choose a different channel without an RF Signal.

You will see this RF Signal indication once the Transmitter is powered on and set to the same channel.

ASD-700T Transmitter Channel Select

Once you find a clear Channel on your Receiver you can power on your Transmitter by holding the Power button for 2 to 3 seconds. The Transmitter will briefly display "ON" before displaying the set frequency. Push the Channel button (**CH+**) to see if you are on the same Channel as the Receiver. If not hold down the Channel button (**CH+**) until the Channel flashes and change by pushing the Channel button until you find the same Channel number.

If you are using multiple Receivers with the one Transmitter you will need to set all the Receivers to the same Channel number as was set on the Transmitter.

Power ON the Transmitter by holding the Power button for 2 to 3 seconds. The Transmitter will briefly display "ON" before displaying the set frequency.

Set the CH+ button on the Transmitter to the same Channel you selected on the Receiver.

Both Receiver and Transmitter should be set to the same channel. The Receiver should now show a signal indication.

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System Setup - Volume

Lower Volume

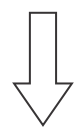Reduce the Volume on the receiver to a low position by turning the volume knob to the Left Counterclockwise.

Monitor Mix Setup Checklist (from Mixer Main Output or XLR Output)
1. Be sure the ASD-700T Transmitter is switched to the **LINE** position.

2. Identify Monitor Output:
● Connect the XLR ASD-700T Transmitter to an XLR Output on the mixer.

LINE Level

3. Set the Audio Levels:
● Start with the mixer output level and monitor volume set at a minimum.
● Insert your earbuds into the ASD-700R Receivers OUT.
● Bring the send levels on your mixer up. With a full mix you want the output meter of the mixer to read about 0dB.
● Now slowly bring up the volume of the receiver to a comfortable level.

System Setup - AUX

Monitor Mix Setup Checklist (from Mixer AUX Sends)
1. Be sure the ASD-700T Transmitter is switched to the **AUX** position.

2. Identify AUX Sends:
● Locate the **AUX** Send on your mixer (typically 1/4" TRS). Connecting the transmitter to a -10dB 1/4" output of a mixer will require the included XLR to 1/4" adapter.
● Connect the XLR to 1/4" Adaptor to the Transmitter.

AUX Position

**3. Connect the Transmitter to a 1/4" auxiliary output of your mixer:**
● With the volume control at minimum, insert your ear buds. Bring the send levels on your mixer up.
● With a full mix you want the output meter of the mixer to read about 0dB. Now slowly bring up the volume of the receiver to a comfortable level.
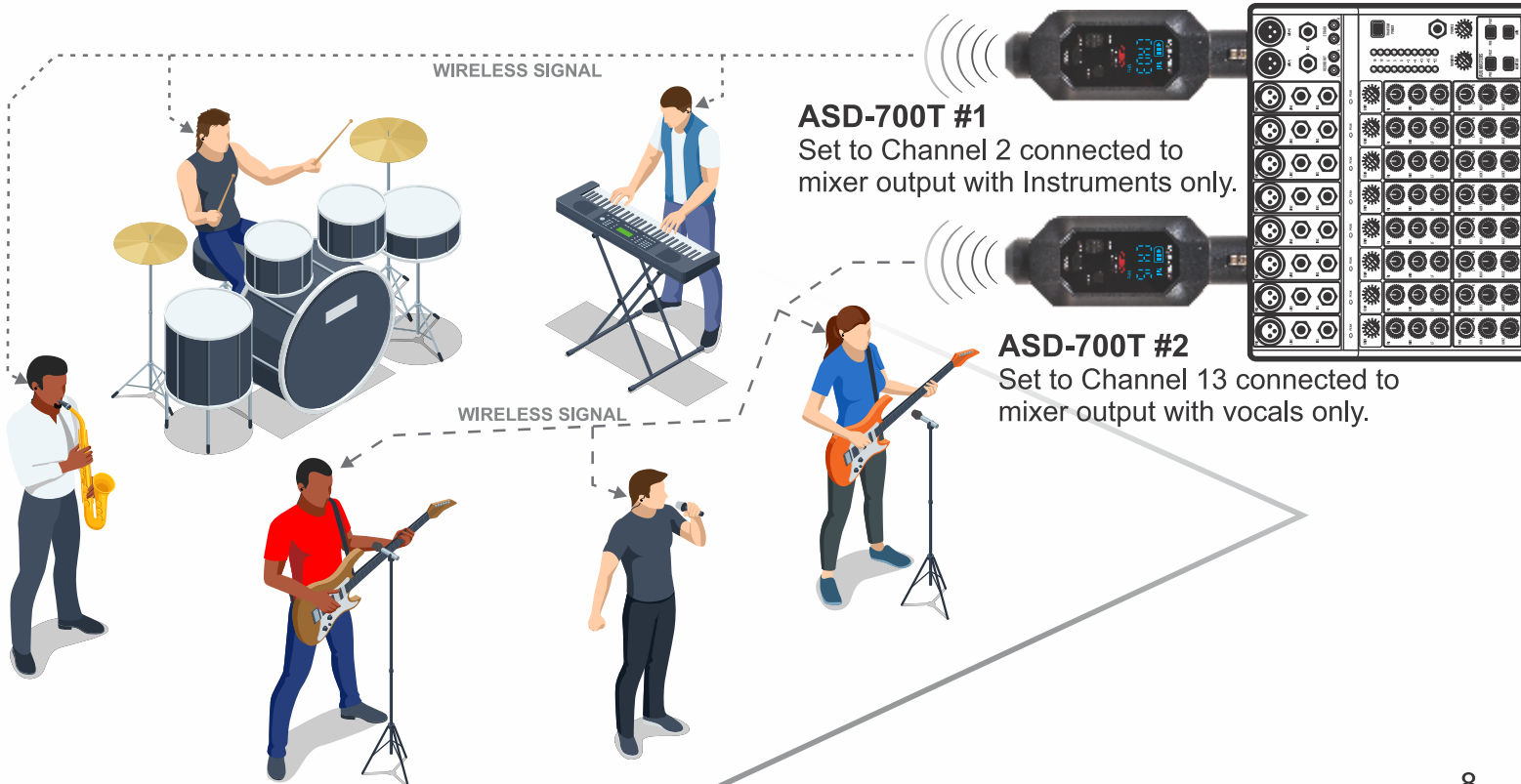
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System Setup - Sharing the Mix

A single ASD-700T Transmitter can send audio signal to an unlimited number of receivers.
Each ASD-700R Receiver must be set to the same Channel/Frequency of the Transmitter.

WIRELESS SIGNAL

ASD-700T
Connected to mixer output with vocals and instruments mix.
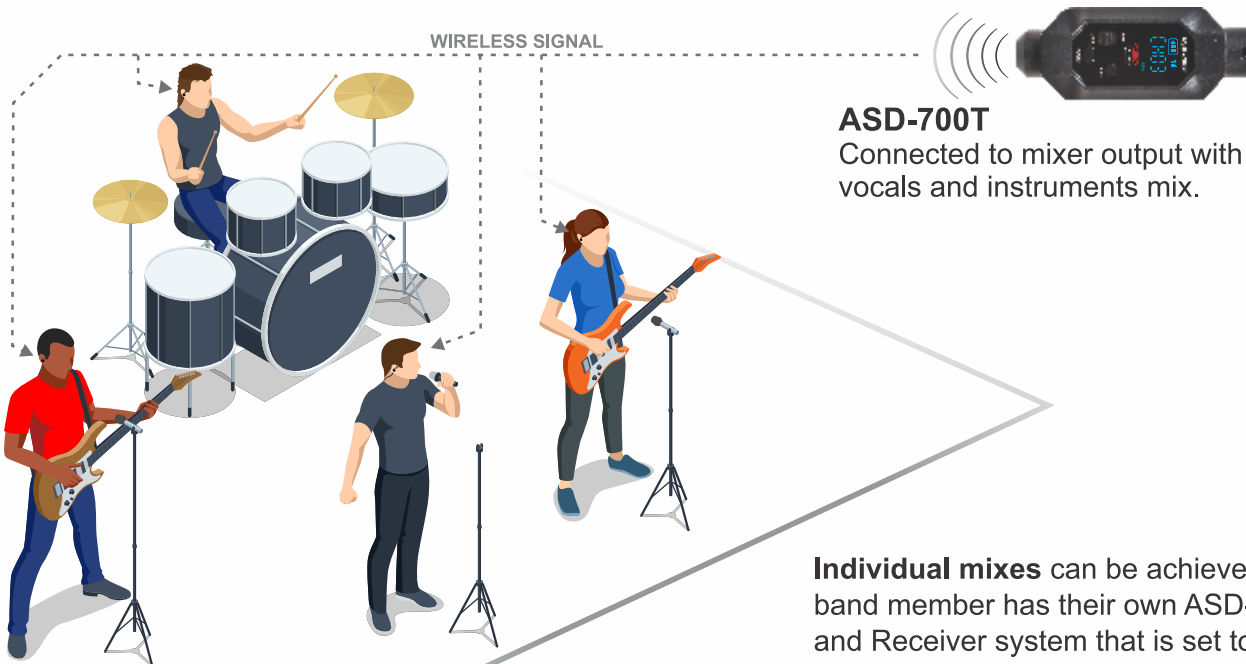
Individual mixes can be achieved when each band member has their own ASD-700 Transmitter and Receiver system that is set to a different Channel/Frequency from band members.

System Setup - Sharing the Mix with Multiple Transmitters

Since a single ASD-700T Transmitter can send audio signal to an unlimited number of receivers.
Multiple Transmitters can be set up and band members can decide which Mix they want to hear.
Each ASD-700T Transmitters must be set to a different Channel/Frequency.
Example: A two ASD-700T Transmitter system for a six member band.

WIRELESS SIGNAL

WIRELESS SIGNAL

ASD-700T #1
Set to Channel 2 connected to mixer output with Instruments only.

ASD-700T #2
Set to Channel 13 connected to mixer output with vocals only.

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Specifications

System
Band: UHF
15 Channels. Frequency CODE B5 550-569MHz
        Frequency CODE B6 571-585MHz
Transmission: Mono
Sample Rate: 24bit/48kHz
Operating Range: Under Typical Conditions 150' (45m)
    Note: actual range depends on RF signal absorption, reflection, interference,
        and battery characteristics
Audio Frequency Response: +/-3dB 20Hz~20kHz
Dynamic range: 101dB
S/N: 98.d dB
Operating Temperature Range: 14ºF to 122ºF (-10º C to +50º C)
    Note: battery characteristics may limit this range
Included Accessories: Dual USBC charge cable, Power Block,
    EB5 Ear Buds, XLRM to 1/4"adapter, Quick Start Guide

GALAXY AUDIO
Frequency Page

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

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

ASD-700T Transmitter
Transmitter Output Level: 10 mW
Max Audio Input Level: Aux +10dBu, Line +19dBu
Controls: Power, channel select, input sensitivity
Display: Channel, frequency, battery level
XLR Input: Impedance balanced
Pin: 1 Ground (cable shield)
Pin: 2 Audio +
Pin: 3 No Audio -
Dimensions: 1.73" x 8.34" x 3.77" (105 x 35 x 25 mm)(HxWxD)
Weight: 19.75 oz (560 g)
Power Supplied By: 3.7V 800mA Lith-Ion internal battery
Battery Life: Up to 8 hours

ASD-700R Body Pack Receiver
Audio Output Level: 50mW
Output Connector: 1/8" (3.5mm) Stereo Earphone Connector
Controls: Power, Volume, Channel Up/Down
Display: Channel, frequency, RF level, battery level
Dimensions: 3.54" x 2.51" x 0.9" (90 x 64 x 23 mm)(HxWxD)
Weight: 3.35 oz (95 g)
Power Supplied By: 3.7V 1000mA Lith-Ion internal battery
Battery Life: Up to 8 hours

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).

EB5 - Ear buds which come standard with our Wireless Personal Monitor Systems with 1/8" - 3.5mm Jack.

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

Dual USB-C Charging Cable

USB Power Supply

XLR to 1/4" Adapter

CASE-ASD700 - Soft Shell Semi Hard Case for ASD-700 System

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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.

On body pack receivers/transmitters, avoid putting them in your pocket.

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

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 www.tvfool.com.

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.

Fully charge the batteries before and after each use.

5-point best practices for safe in-ear use
1. Make certain they fit properly and provide a good seal, this will allow a lower level to be used, and improve the low frequency response.
2. Use the lowest level that allows you to hear.
3. Always use both buds, only using one will cause you to need much more level in that one ear.
4. Make certain to clean the buds regularly for good hygiene practice and prevent any buildup.
5. Rest your ears, use good earplugs between sets and in noisy environments.

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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

ASD-700
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.

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