

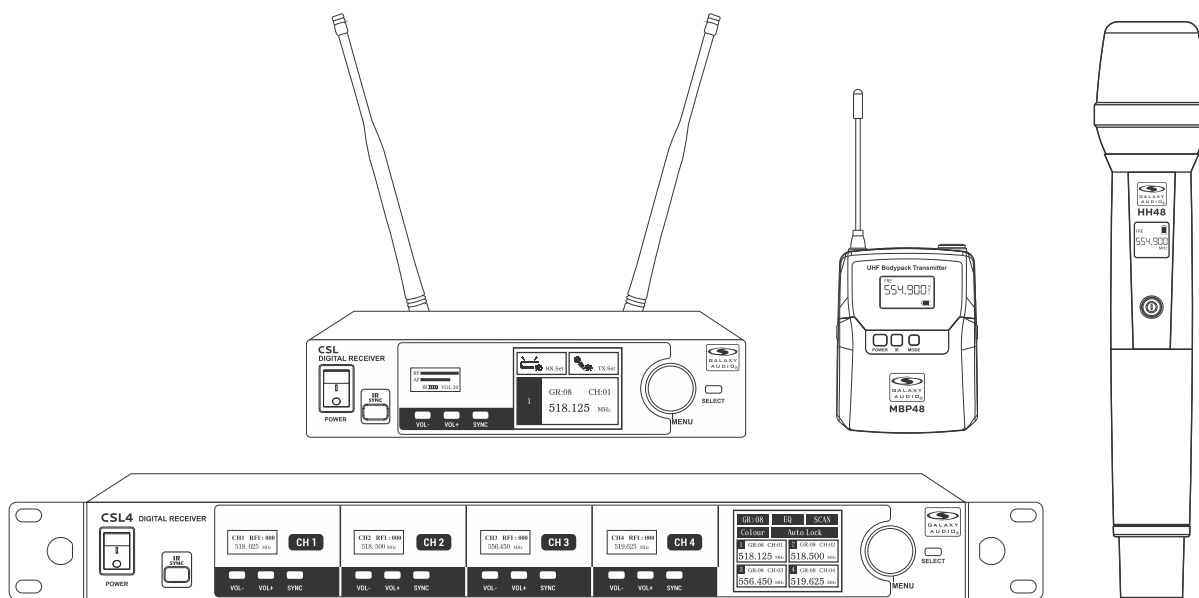
CSL/CSL4



USER'S MANUAL

ANY SPOT[®] DIGITAL

UHF TRUE DIVERSITY
WIRELESS MICROPHONE SYSTEM



UHF
BAND



AMPLIFY YOUR PASSION[™]

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Introduction

Thank you for choosing a Galaxy Audio professional wireless microphone 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. Multiple Selectable UHF frequencies.
2. Auto scan to help find available frequencies.
3. IR Sync Frequency from Receiver to Transmitter
4. Designed to provide incredible audio quality and reliable performance for artists, broadcasters and other demanding audio environments.

2. Receiver Installation and Connections

Installation

1. For better operation the receiver 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. 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. CSL Single System receiver has a balanced XLR output connector and an unbalanced 1/4" output.
3. CSL4 Quad each receiver channel has a balanced XLR output connector all have a shared unbalanced 1/4" for combined output .
Use the appropriate shielded audio cable for connections between the receiver and the output(s) to the mixer or other audio output equipment.

DTV Frequency Ranges & FCC Consumer Alert

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. <http://transition.fcc.gov/mb/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 online, find a frequency that is not on an active DTV RF channel.

For example, if you have an B-Band CSL and your location has DTV stations on RF channels 31 and 33, you will want to set your CSL on a frequency that is on RF channels 32 or 34.

! 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 manufactures 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.

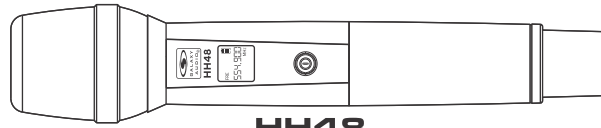
For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at www.fcc.gov/cgb/wirelessmicrophones

Please visit galaxyaudio.com for the latest updates

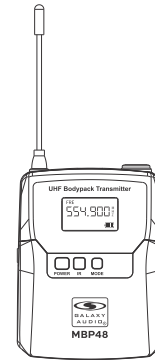
System Components

CSL and CSL4 systems include variations of the following components:

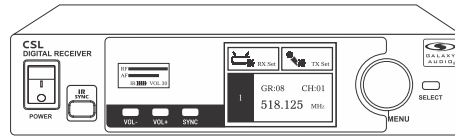
HH48 Handheld Transmitter
MBP48 Body Pack Transmitter
CSL Single System Receiver
CSL4 Quad Receiver
Power Supply
Two Antennas
Quickstart Guide



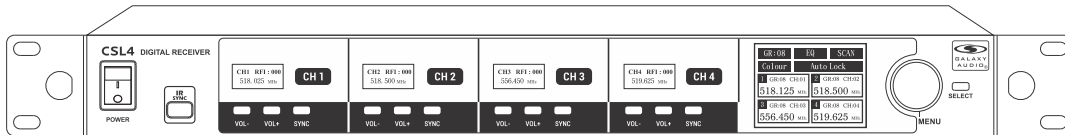
**HH48
Handheld
Transmitter**



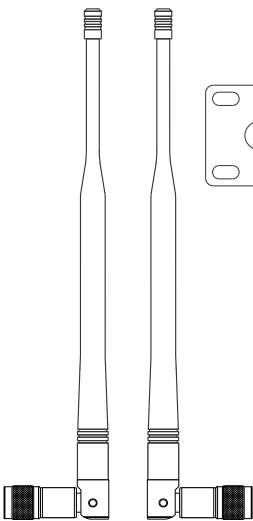
**MBP48
Body Pack
Transmitter**



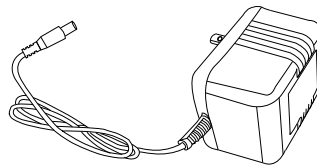
**CSL
Single Receiver**



**CSL4
Quad Receiver**



Antennas



**PS-CSL
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

FREQUENCIES:

P-BAND 470-507 MHZ There are 1480 frequencies available to choose from for the user group in the P-Band unit. The maximum compatible frequencies are 18*.

M-BAND 520-554 MHZ

There are 1360 frequencies available to choose from for the user group in the M-Band unit. The maximum compatible frequencies are 17*.

B-BAND 572-596 MHZ

There are 960 frequencies available to choose from for the user group in the B-Band unit. The maximum compatible frequencies are 14*.

There are 10 groups of 4 factory-set frequencies for the Quad units All 4 frequencies in each group are compatible

IR Sync Frequency from Receiver to Transmitter

LCD Display

EIA Standard 1U Rack-Mountable

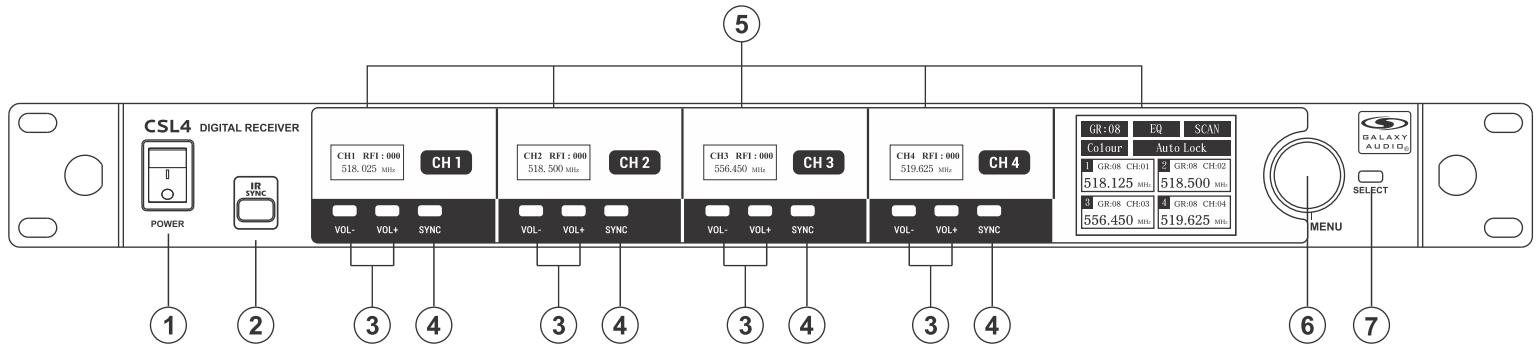
Up to 200' (50m) Operating Range

Used in Live sound, Stage performing, Schools, Houses of Worship, and more...

*Dependant on location and other on site wireless systems in use.

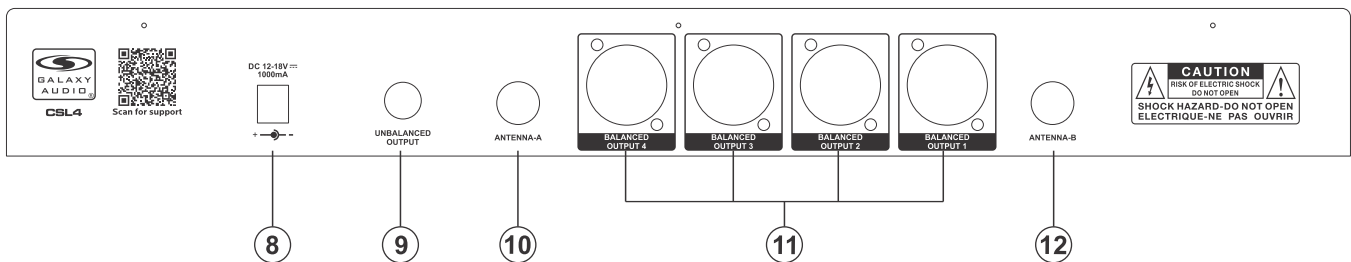
CSL4 Receiver Overview

CSL4 Quad 4 Channel Receiver Front Panel:



- ① Power switch: Turn on or off the receiver
- ② IR Sync. send window
- ③ Volume control buttons
- ④ IR Sync. button
- ⑤ Full-color LCD sub-matrix display
- ⑥ Functions setting knob
- ⑦ Menu/Operation selection button

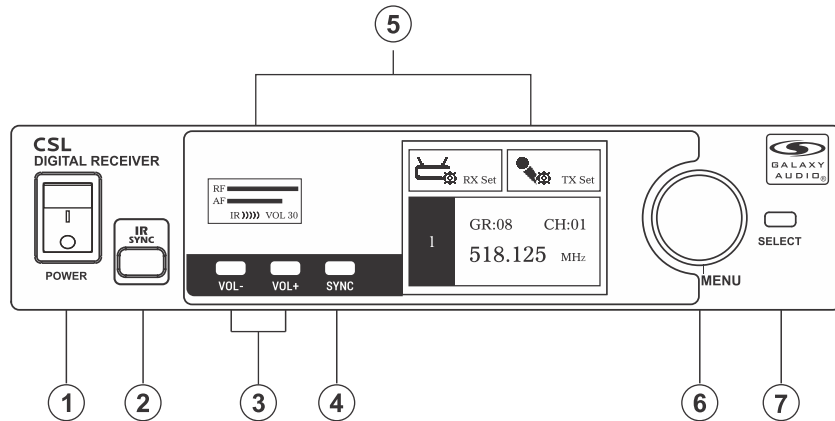
CSL4 Quad 4 Channel Receiver Back Panel:



- ⑧ DC power input
- ⑨ Unbalanced summed output: can use unbalanced audio cable to connect to the mixer
- ⑩ BNC antenna interface
- ⑪ Balanced Output 1-4: The XLR socket can be connected with a standard balanced shield cable to the balanced microphone input of the mixer.
- ⑫ BNC antenna interface

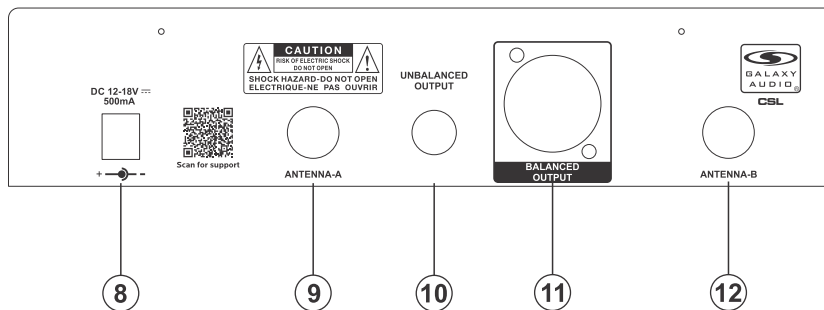
CSL Receiver Overview

CSL Single Channel Receiver Front Panel:



- ① Power switch: Turn on or off the receiver
- ② IR Sync. send window
- ③ Volume control buttons
- ④ IR Sync. button
- ⑤ Full-color LCD sub-matrix display
- ⑥ Functions setting knob
- ⑦ Menu/Operation selection button

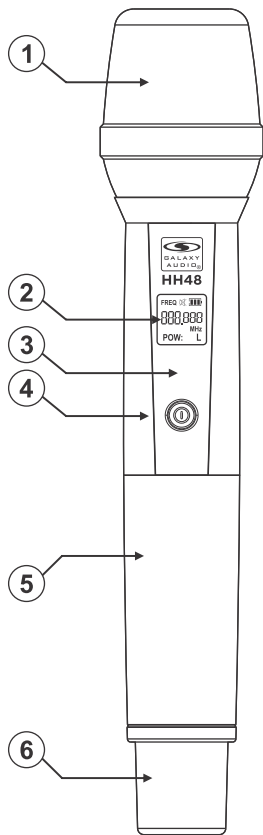
CSL Single Receiver Back Panel:



- ⑧ DC power input
- ⑨ BNC antenna interface
- ⑩ Unbalanced output: can use unbalance audio cable to connect to the mixer
- ⑪ Balanced Output: The XLR socket can be connected with a standard balanced shield cable to the balanced microphone input of the mixer.
- ⑫ BNC antenna interface

Wireless Transmitters

HH48 Wireless Handheld Transmitter



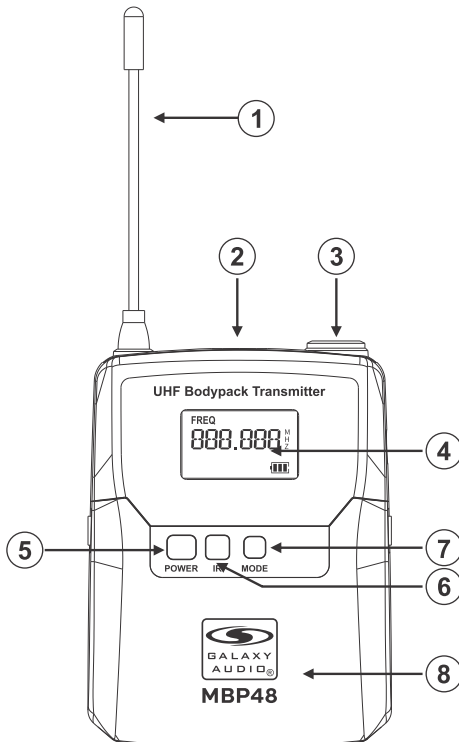
- ① Microphone Grille
- ② LCD Display
- ③ IR Port: Receives the IR signal to SYNC to the CSL/CSL4 Receivers.
- ④ Power and Mute Button: Hold for 3 seconds to Power On or Off. Click once to Mute or Unmute the output signal.
- ⑤ Battery compartment (Uses 2 - AA alkaline batteries)
- ⑥ Antenna

Handheld transmitter display overview

Press and hold the power button to turn on the transmitter, and it will show the standard information interface on the screen.



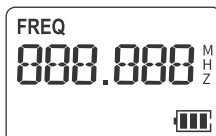
HH48 Wireless Body Pack Transmitter

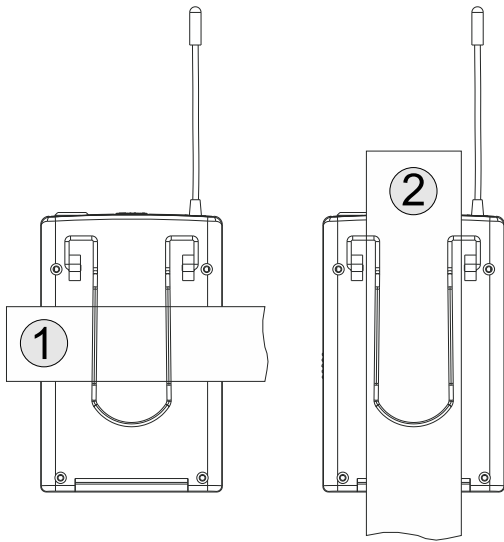


- ① Antenna
- ② Mute Button
- ③ Mini XLR input
- ④ LCD display
- ⑤ Power Button
- ⑥ IR Port: Receives the IR signal to SYNC to the CSL/CSL4 Receivers.
- ⑦ 4-level volume control button
- ⑧ Battery compartment (Use 2 - AA alkaline batteries)

Bodypack transmitter display overview

Press and hold the power button to turn on the transmitter, and it will show the standard information interface on the screen.





How to Wear the MBP48 Transmitter:

Clip the transmitter to belt ①, or slide a guitar strap through the transmitter's clip ②, as shown in the diagram at left.

For best results, slide the transmitter until the belt is pressed against the base of the clip ①.

Microphones for Body Pack Transmitter

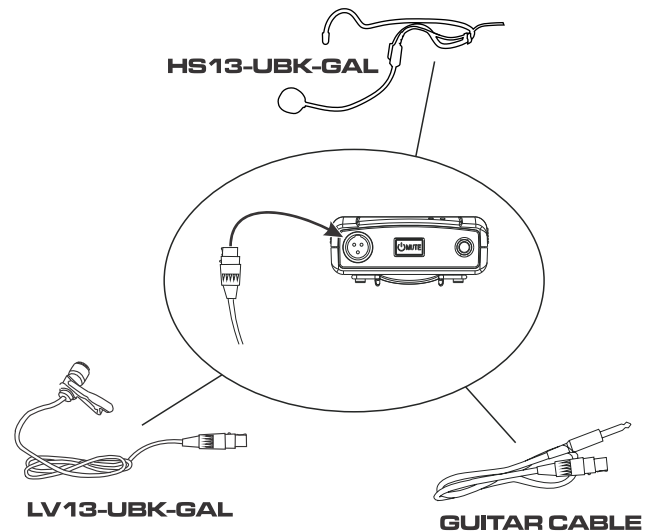
HS13-UBK-GAL Headset Microphone

Polar Pattern: Unidirectional
Sensitivity: $-65\text{dB} \pm 2\text{dB}$
Frequency Response: 50Hz-18KHz
Output impedance: $\leq 2\text{K} \Omega$
S/N Ratio: $\leq 38\text{dB}$

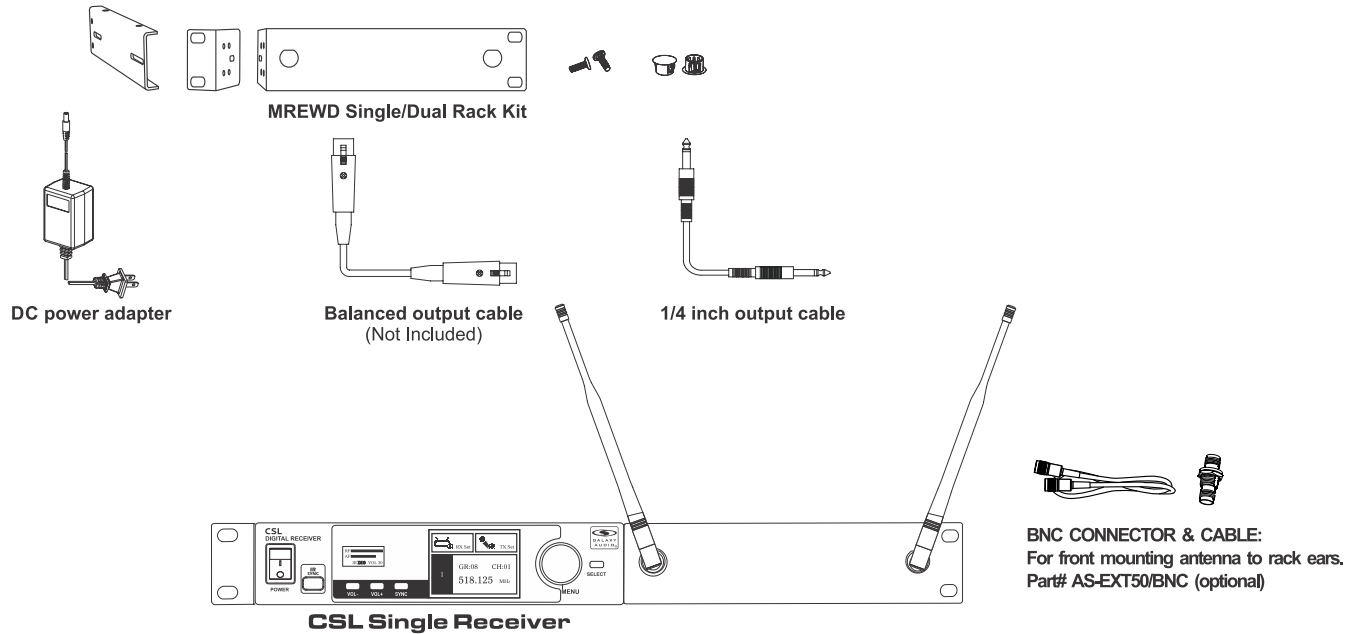
LV13-UBK-GAL Clip-on Microphone

Polar Pattern: Unidirectional
Sensitivity: $-64\text{dB} \pm 2.2\text{dB}$
Frequency Response: 100Hz-20KHz
Output impedance: $2\text{K} \Omega$
S/N Ratio: $>44\text{dB}$

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

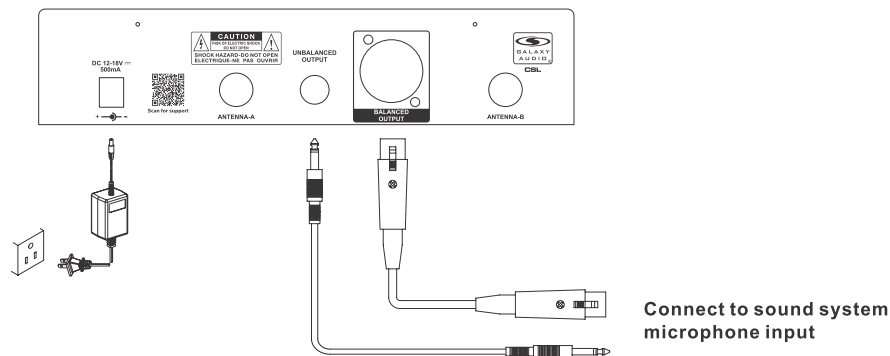
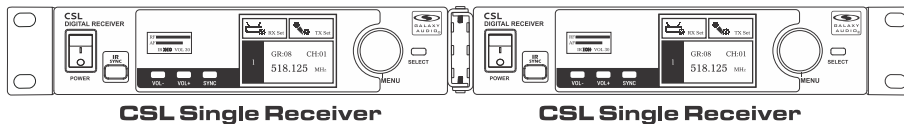


Mounting & Connecting the Receiver



Rack-Mounting Two CSL Receivers

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



What You Need for Rack Mounting: (Not Included)

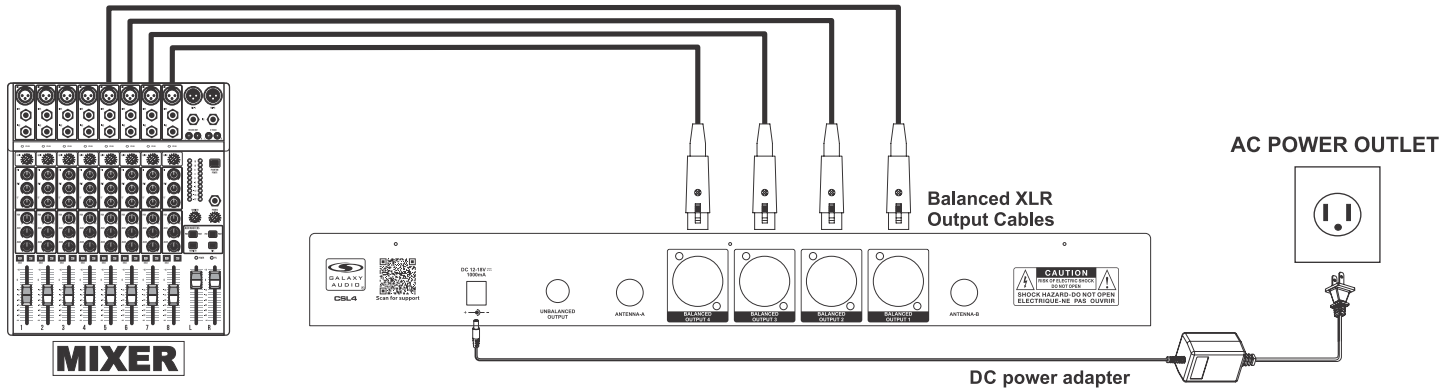
1. Rack Screws 10/32 x 0.75",
Phillips Truss Head Screws



2. #2 Phillips Head
Screwdriver



System Setup / IR SYNC



1. When using this system, the receiver should be placed on a flat surface or rack mounted. The receiver should be 3-feet (1 Meter) away from the ground, walls, and other surfaces.
2. Keep the receiver antenna away from noise sources, such as computer equipment, digital equipment, television/displays, etc.
3. Install the antenna on the rear panel, and position the antenna at a 45 degree angle to the horizontal plane position of the receiver within the best possible line of sight to the transmitters.

Receiver connection

1. Connect the DC jack of the supplied power adaptor to the receiver and the plug-top to the mains outlet. The input voltage of the power adaptor must be consistent with the local power supply specification range.
2. A choice of mixed output of All microphones on 1/4" (6.3mm) jack or individual balanced XLR outputs are available on the rear panel of the receiver.



Unbalanced 1/4 inch (6.35 mm): Connects to high impedance line inputs such as semi-pro mixers.

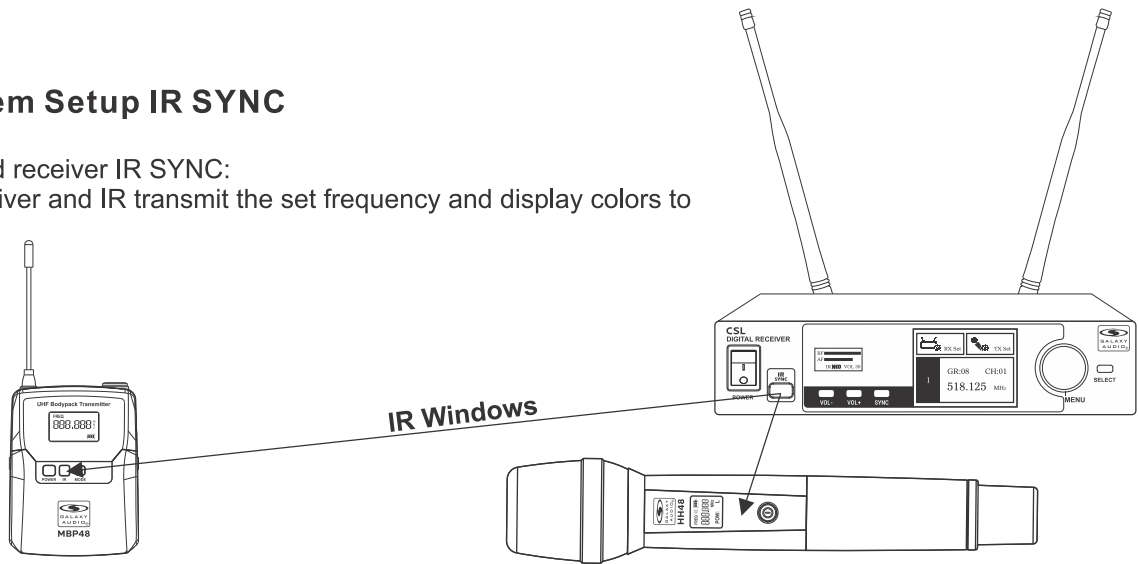


Balanced XLR: Connects to a mixer or other professional audio equipment.

Single System Setup IR SYNC

Transmitter and receiver IR SYNC:

Adjust the receiver and IR transmit the set frequency and display colors to the transmitter:

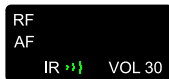


IR Sync method:

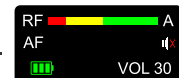
With the transmitter OFF, Turn on the receiver. Set the receiver channel to a clear frequency. (See Pg. 10)

IR SYNC:

Power on the transmitter and Short press the "SYNC" button on the receiver, the screen will roll this icon))))) on the display. Hold the transmitter IR window within a foot of the receivers IR SYNC window.



When the IR SYNC has completed you will see an RF and AF bar indicating connection.



Note: AF signal will only show when a handheld is not muted and or a body pack not muted with a microphone connected. If the Transmitter is muted the MIC MUTE Symbol **||X** will show above the volume on the Channel display on the Receiver.

System Setup Frequency Group Setting

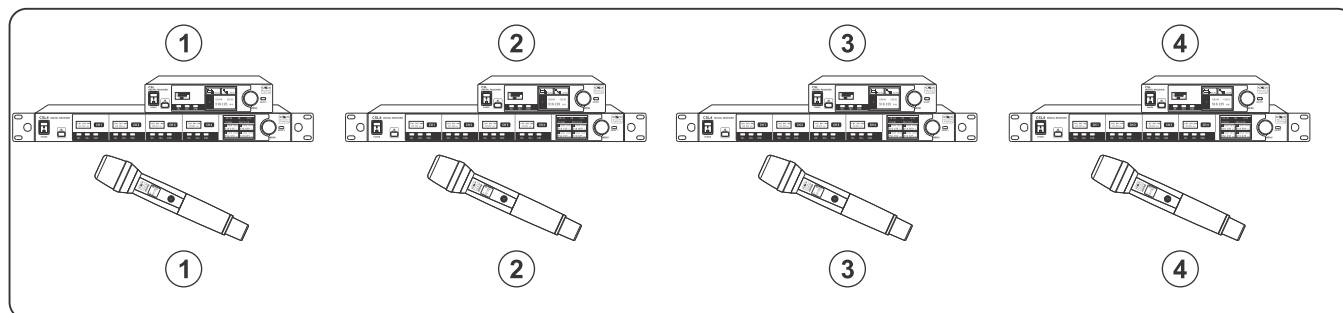
Pre-set Frequency Groups

There are 10 pre-set groups, each with 4 different, compatible frequencies.

Step 1: Turn on all the receivers, with all the transmitters OFF.

Step 2: Select desired Group

Step 3: Sync each transmitter one at a time with one of the receiver channels using the IR SYNC, each transmitter must be on a separate receiver channel. Be sure to keep all preceding transmitters powered on when moving to the next transmitter that needs Synced.



Multiple Systems Scan Method

Step 1: Turn on all the receivers, with all the transmitters OFF.

Step 2: Select Group U

Step 3: Select Scan

Step 4: Select the first RX channel and scan

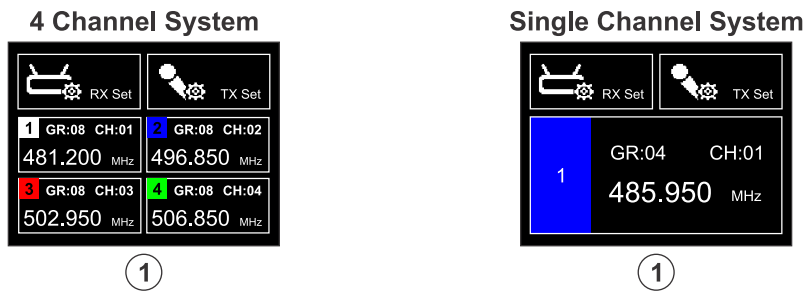
Step 5: Turn on the first transmitter and IR SYNC to the channel.

Step 6: Leaving the previous transmitter on, repeat from step 2 and selecting the next RX channel continue with the process until all channels and transmitters are set.

(Note: Before scanning, all the transmitters should be at least 3 meters away from receiver antenna, and transmitters should not be placed together.)

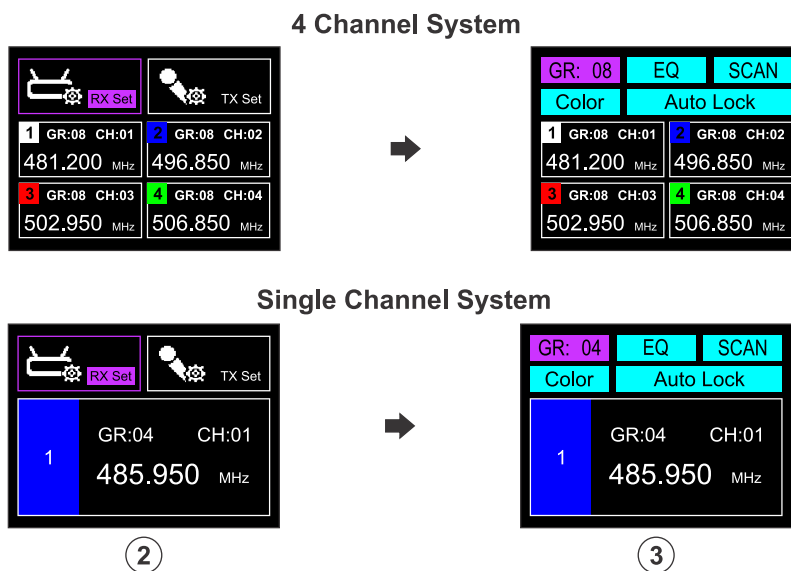
Menu Overview and Operation

1. Power ON the Receiver

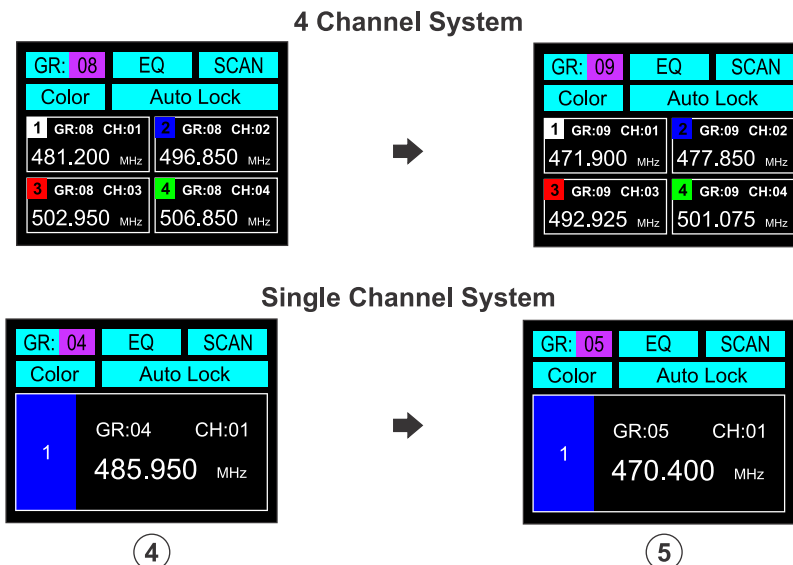


Press POWER button to turn the receiver on, the screen will show standard information as shown above.

2. Frequency Group Setting



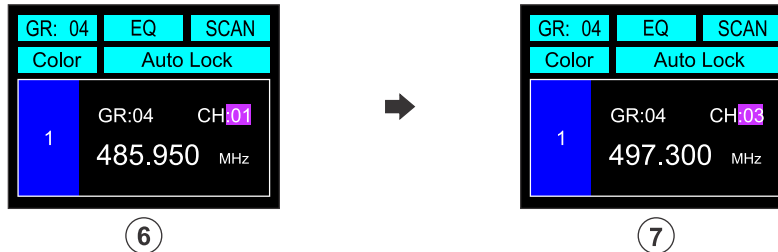
Press "SELECT" button, choose "RX Set" (Picture 2), and then press the "MENU" button, open the selection menu interface (Picture 3).



After opening the selection menu interface, then press the "MENU" knob, choose "GR" (Picture 4), and rotate "MENU" knob to select desired group (Picture 5), the display will show the current selected group.

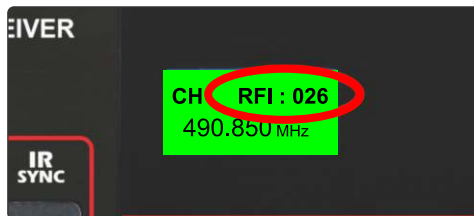
3. Frequency Channel Setting

Single Channel System



After selecting the frequency group, press the "MENU" knob, and select "CH", then rotate "MENU" knob to select a desired channel (Pictures 6 & 7), the display will shows selected channel.

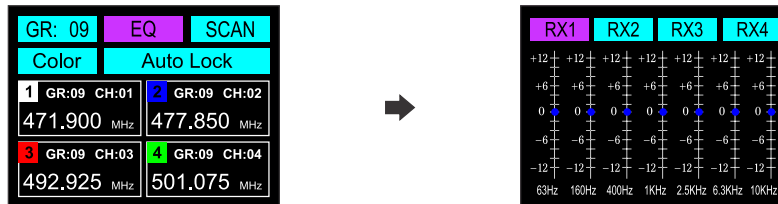
Tip:



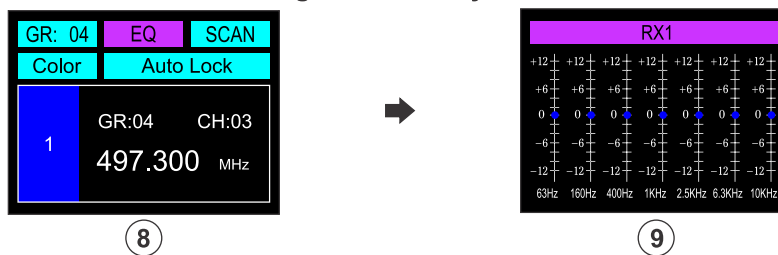
If the Group or Channel you selected indicates a Radio Frequency Interference (RFI) number greater than 10 in the Channel Window, we recommend choosing a different frequency. Remember, your mic transmitter should still be OFF. The RFI Value Range is 000~060.

4. EQ Setting

4 Channel System



Single Channel System

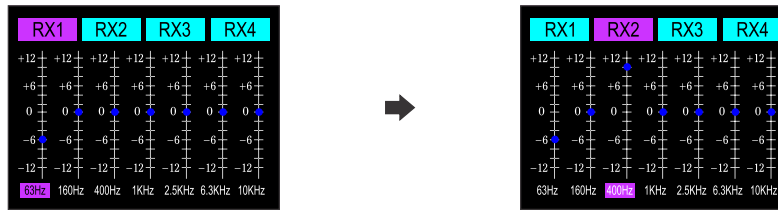


Press the "SELECT" button, choose "EQ" (Picture 8), and then press the "MENU" knob, open to receiver 7-band 5 gain EQ adjustable interface (Picture 9).

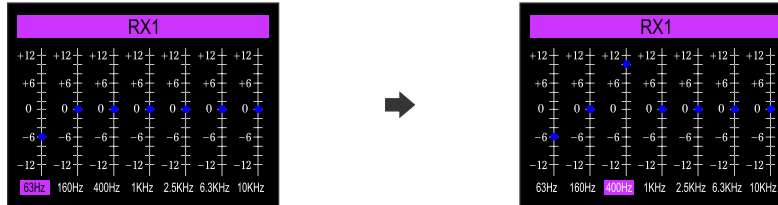
Menu Overview and Operation (continued)

4. EQ Setting (continued)

4 Channel System



Single Channel System



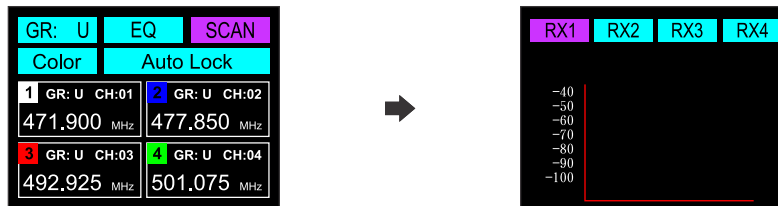
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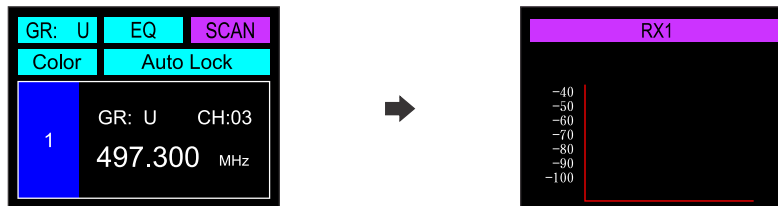
After opening EQ adjustable interface, press the "SELECT" button, select "RX1/2/3/4" in turn, and then press the "MENU" knob, to select the range you want to adjust and then rotate the "MENU" knob to adjust the value. (Pictures 10 & 11)

5. Available Frequency Search & Selection on Group U

4 Channel System



Single Channel System



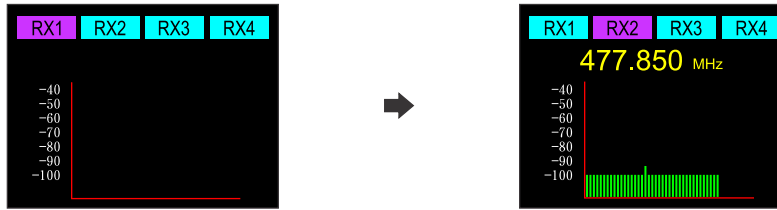
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13

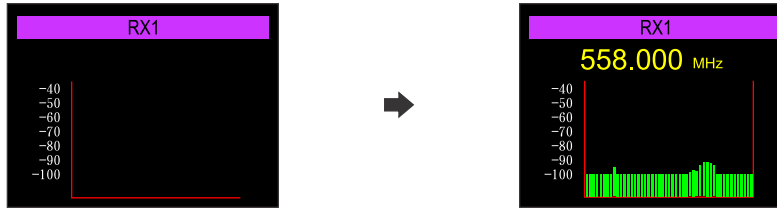
Press "SELECT" button, choose "SCAN" (Picture 12), then press "MENU" knob to open searching freq. Interface. (Picture 13)

5. Available Frequency Search & Selection (continued)

4 Channel System



Single Channel System



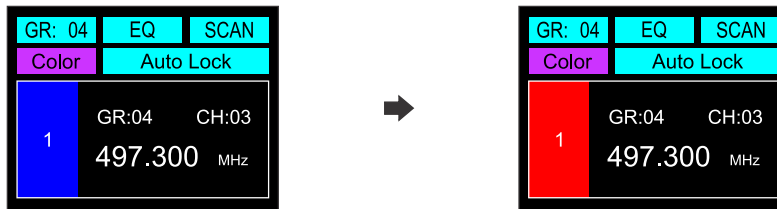
After opening the Frequency search interface, press the "SELECT" button, and select "RX1/2/3/4" in turn, and then press the "MENU" knob, the screen will show scanning status and search available frequencies automatically. After scanning, the channel will automatically set on available frequency. Now power ON your first transmitter and IR SYNC to this Channel. **(See Pg. 9)** When Syncing multiple transmitters, start with only one transmitter powered ON. After Syncing, leave this Transmitter Powered ON and move on to the next transmitter. Power ON the second transmitter and repeating the steps. Follow this same process for all subsequent transmitters.

6. Color Setting

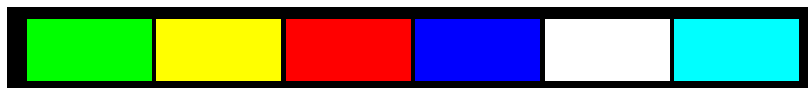
4 Channel System



Single Channel System



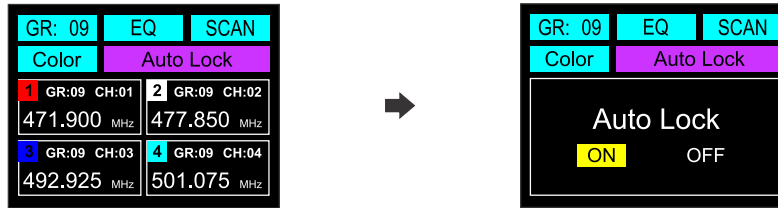
Press the "SELECT" button, and choose "Color" (Picture 16), and then press the "MENU" knob, select "1/2/3/4" channels in turn, rotate "MENU" knob to choose the color green, yellow, red, dark blue, white and light blue 6 colors. (Picture 17)



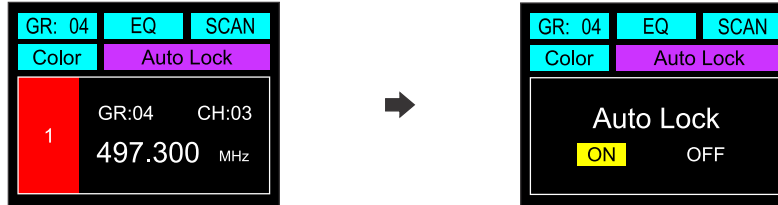
Menu Overview and Operation (continued)

7. Receiver Auto Lock Setting

4 Channel System



Single Channel System

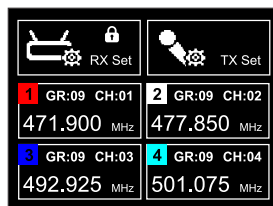


(18)

(19)

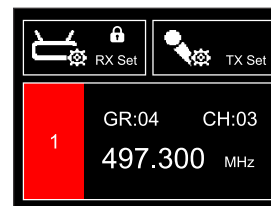
Press the "SELECT" button, and choose "Auto Lock" (Picture 18), then press the "MENU" knob, open to the menu interface, rotate the "MENU" knob to select "ON/OFF", and then press the "MENU" knob for selection confirmation. (Picture 19)

4 Channel System

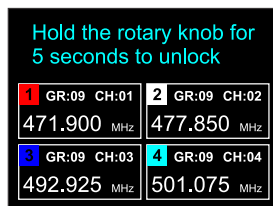


(20)

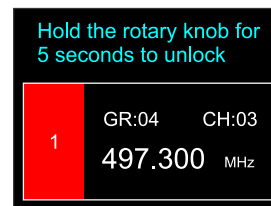
Single Channel System



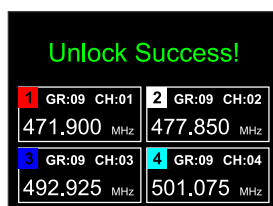
(20)



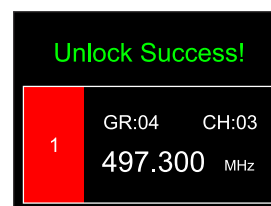
(21)




(21)



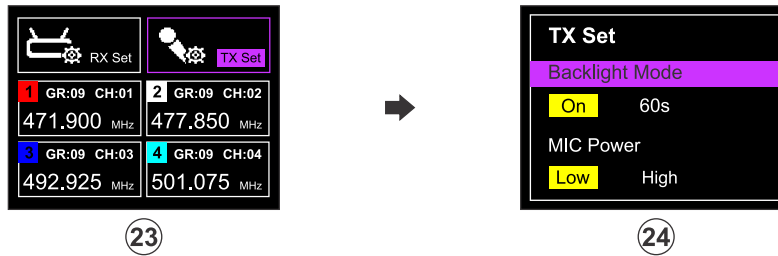
(22)



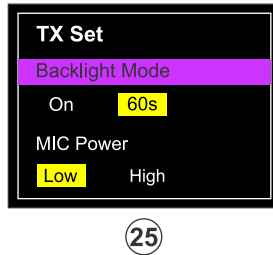
(22)

After choosing "ON", the function lock will work after, no operation for 5 seconds, standard interface screen will show LOCK  icon (Picture 20), you will not be able to operate the receiver at this stage (Picture 21). If you want to operate the receiver, you must release the lock function by Long pressing the "MENU" knob for 5 seconds to unlock. (Picture 22)

8. Transmitter Screen Status Setting

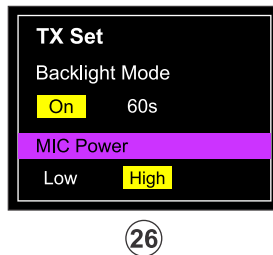


Press the "SELECT" button, choose "TX Set" (Picture 23), and then press the "MENU" knob to open the transmitter setting interface. (Picture 24)



After opening the transmitter setting interface, press the "MENU" knob and select "Back light Mode", rotate the "MENU" knob to select "On/60s" (Picture 25), then press the "SELECT" button to go back to the main interface. After choosing "On", the transmitter screen will keep light, after choosing "60s", the transmitter screen will stay light for 60 seconds and then go black automatically.

9. Transmitter Power Setting



After opening the transmitter settings interface, press the "MENU" knob to chose "MIC Power" (Picture 26) and then rotate the "MENU" knob to select "Low/High", and then press the "SELECT" button to go back to the main interface.

Note: The transmitter must be re-synced for changes to take affect.

Specifications

CSL System:

Band: UHF

Frequency Band Options:

P-BAND, 1480 frequencies available

470-507 MHz, The maximum compatible frequencies are 18.

M-BAND, 1360 frequencies available

520-554 MHz, The maximum compatible frequencies are 17.

B-BAND, 960 frequencies available

572-596 MHz, The maximum compatible frequencies are 14.

Operating Range: Under Typical Conditions 300' (91m)

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

CSL/CSL4 Receiver (Main Rack Mount Unit)

CSL Main Frame Size: EIA STANDARD 1 U with

Single/Dual Rack kit (included)

CSL4 QUAD Main Frame Size: EIA STANDARD 1 U

Frequency Pairing: IR Sync Transmitter w/ Receiver

Oscillation: Synthetic Module Chip

Digital Modulation: 32-bit encrypted

Latency: Digital Audio Circuit (less than 3ms)

Bandwidth: <100KHz

Sensitivity: -6dBm

Signal-to-Noise Ratio: >80dB

Frequency Response: 50Hz - 16KHz

Sound Processing: 7- Band Adjustable EQ

T.H.D. <0.5% @ 1KHz

CSL Output Connections: Balanced XLR, Unbalanced 1/4"

CSL4 Output Connections: Balanced XLR 1 for Each Receiver,

1 Unbalanced 1/4" for Combined Output

CSL Power Requirements: 12Vdc, 500mA

CSL4 Power Requirements: 12Vdc, 1000mA

CSL Dimensions: 1.79" x 8.27" x 7" (45 x 210 x 178 mm)(HxWxD)

CSL4 Dimensions: 1.79" x 19" x 7" (45 x 483 x 178 mm)(HxWxD)

CSL Weight: 1.96 lbs (890 g)

CSL4 Weight: 3.34 lbs (1515 g)

HH48 Handheld Transmitter:

Polar Pattern: Cardioid

Element Type: Dynamic

LCD Display: Frequency, Battery Life, Mute

Oscillation Mode: PLL Phase-Locked

Digital Modulation: 32-bit Encrypted

Max Transmission Power: 10mW

Current Drain: <130mA

Gain: Fixed

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

Battery Life: About 8 Hrs dependent on power setting

Dimensions: 10" x 1.9" (254 x 49.5 mm)(LxW)

Weight: 12.2 oz (345 g)

MBP48 Body Pack Transmitter:

LCD Display: Frequency, Battery Life,
Mute, Gain, RF Power

Oscillation Mode: PLL Phase-Locked

Digital Modulation: 32-bit Encrypted

Input Gain: 4 Position Line to Mic

Max Transmission Power: 10mW

Current Drain: <130mA

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

Battery Life: About 8 Hrs dependent on power setting

Dimensions: 3.31" x 2.44" x 1.04"
(84 x 62 x 26.4 mm)(HxWxD)

Weight: 2.6 oz (74 g)

GALAXY AUDIO
Frequency Page

Please scan the QR
link for the most current
frequency information.



<https://www.galaxyaudio.com/support/schematics-and-frequency-charts>

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 mounting the antennas on the AS-4400. For lengths available: 18", 25', 50', 100'



CN-BNCPM - BNC Connector for front mounting the antennas on the AS-4400.



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



PS-CSL - 1000mA Replacement Power Supply for CSL



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

Tips for Improving System Performance

- Maintain a line of sight between transmitter and receiver antennas.
- Do not have walls, metal objects, large crowds, etc. blocking the line of sight between the transmitter and receiver.
- Avoid placing the receiver near metal surfaces or any digital equipment (CD players, computers, etc).
- Keep the receiver over 3' (1 m) above the floor/ground .
- 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.
- Cell phones, two-way radios and other RF transmitters can interfere with the transmitting frequencies, maintain a distance from interfering equipment.
- 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 100' to 200' are unavoidable, directional antennas such as the ANT-POL can improve reception by rejecting signals outside their pickup angle.
- Find out what TV stations are broadcasting in your area and avoid the frequencies they are on.
- TV station 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/s are turned off, you need to change 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 many discharge at a much faster rate than alkaline batteries.

Troubleshooting

Issue	Issue or Indicator Status	Solution
No RF receive signal / No sound or faint sound.	Mic Transmitter is OFF	Turn on the Microphone. Make sure the +/- indicator on battery match the transmitter terminals
	Power indicator off	Make sure AC adapter is securely plugged into electrical outlet and into DC input connector on rear panel of receiver.
	Microphone and receiver are on different frequencies	Check manual instructions on adjusting and setting the frequency correctly
	Microphones have exceeded the 300' distance	Get closer to the receiver
	No RF indicator but transmitter is ON	Check if the receiver and transmitter are on the same frequency Move the transmitter closer to the receiver.
Receiver shows RF signal but there is No sound	Volume is too low	Check receiver volume and adjust or adjust loudspeaker volume
	Broken audio cable or wrong connection	Swap or check and test cables
The receiver has signal before powering on transmitters	Frequency interference. Could be from anything, nearby devices, television station, etc..	Change the frequency
Sound on and off	Exceeded working distance	Move closer to the receiver and stay within the operation range
Distortion or unwanted noise bursts.	Receiver RF indicator ON	Remove nearby sources of RF interference (CD players, computers, in-ear monitor systems, etc.)
Distortion level increases gradually.	Transmitter low battery indicated	Replace transmitter batteries.
Short working distance	Complicated working environment	Make sure the receiver has a good line of sight and keep clear of large metal objects, walls, and obstructions.
Microphone light is dim or not working.	Battery polarity is wrong	Check it and install batteries in correct polarity
	Low batteries	Replace with new batteries
	Battery corrosion on battery contacts	Clean and battery contacts



CLEANING

Unplug this unit from the power source before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



AMPLIFY YOUR PASSION™



www.galaxyaudio.com

THREE YEAR LIMITED WARRANTY

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



www.galaxyaudio.com/support/warranty

CSL & CSL4

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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