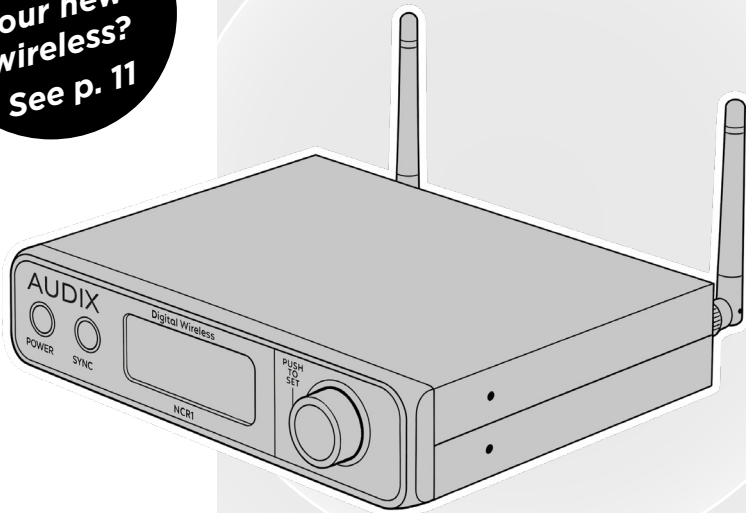


NCR1 User Guide

Novacore Single Channel Receiver

Ready to
scan & sync
your new
wireless?
See p. 11



Special Offer Inside

AUDIX®

SPECIAL OFFER

*Receive a complimentary rack mount kit
and rechargeable battery for your
new system(s)!*

*To claim yours, simply email your contact
information and proof of purchase to*

AudixUSASales@videndum.com

IMPORTANT SAFETY INSTRUCTIONS

Safety Basics

1. Read all safety and operating instructions before using the unit.
2. Heed all warnings on the unit and in this manual.
3. Keep this manual for future reference.

Environment & Placement

1. Do not use the unit near water or in high-humidity environments.
2. Do not expose the unit to dripping, splashing, rain, or moisture, and do not place objects filled with liquids on it, as this may increase the risk of electric shock or fire.
3. Keep the unit away from heat sources such as radiators, stoves, or power amplifiers.
4. Ensure adequate ventilation and do not block any ventilation openings.

Power & Electrical Safety

1. Use only the power supply and accessories specified by the manufacturer.
2. Do not modify or defeat the safety purpose of polarized or grounding-type plugs. If the plug does not fit your outlet, consult a qualified electrician.
3. Protect the power cord from being walked on, pinched, or damaged, especially at plugs, receptacles, and where it exits the unit.
4. The power cord must remain easily accessible, as it serves as the main disconnect device.

Handling & Mounting

1. When using this unit with a cart, stand, tripod, brackets, or any other mounting system, use only hardware recommended by the manufacturer and move the unit carefully to avoid tip-over injuries.
2. Clean the unit only with a dry cloth.

Operation & Servicing

1. Unplug the unit during lightning storms or when unused for long periods.
2. Refer all servicing to qualified personnel. Servicing may be required if the unit:
 - does not operate normally,
 - has had liquid enter it,
 - has had foreign objects enter it,
 - has been damaged or dropped.
3. Use only batteries specified by the manufacturer for any connected transmitters.

WARNING



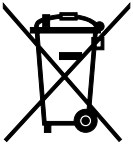
This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



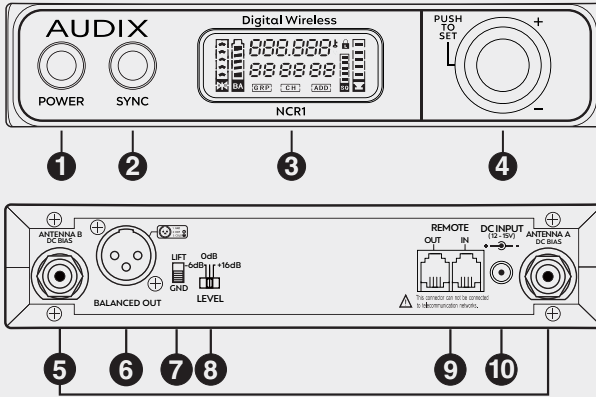
This symbol indicates that the receiver should not be opened due to the risk of electric shock. There are no user-serviceable parts inside the receiver. All servicing should be performed by qualified service personnel.



When this equipment is no longer in use, please take it to a public collection point or recycling center for proper disposal.



Parts Name



Front Panel

- 1 **Power Button:** Turns the unit on or off.
- 2 **SYNC Button:** Activates the sync function to synchronize the receiver's frequency and settings with a compatible transmitter.
- 3 **LCD Display:** Shows frequency, group, channel, audio level, RF signal strength, and menu information.
- 4 **Jog Dial:** Rotate to navigate menu items; press to enter menus or confirm selections.

Rear Panel

- 5 **Antenna Connectors A/B:** BNC connectors used to connect receiving antennas; provide DC bias power when required.
- 6 **Balanced Analog Audio Output (XLR):** Provides a balanced audio output signal for connection to mixers or other audio equipment.
- 7 **Ground Lift Switch:** When set to GND, pin 1 of all XLR connectors is grounded. When set to LIFT, the ground connection is disconnected. Default is GND.
- 8 **LEVEL Switch:** Sets the balanced output level to -6 dB, 0 dB, or +16 dB.
- 9 **Computer Network Interface Port:** RJ-11 connector used to connect the unit to a computer for system monitoring and parameter configuration.
- 10 **DC Power Input Jack:** Center-positive DC input; accepts 12-15 VDC. Refer to the model label for exact power specifications.

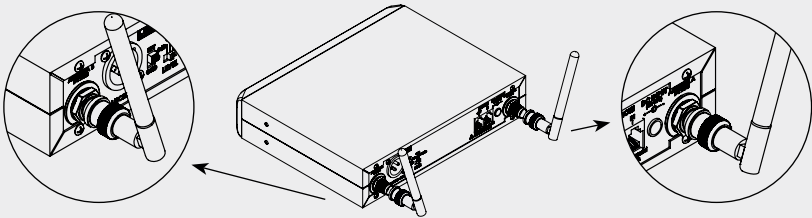
Receiver Installation and Operation

Installation Environment Recommendations

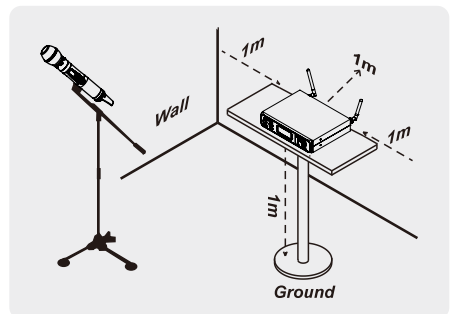
- Place the receiver in a well-ventilated area, away from heat sources and moisture.
- Keep the receiver clear of strong electric fields or high-power equipment to maintain stable RF performance.
- When installing the receiver in a rack, leave adequate space around the unit to ensure proper airflow and heat dissipation.

Antenna Installation

- Install the antennas onto the antenna connectors on the rear panel of the receiver.



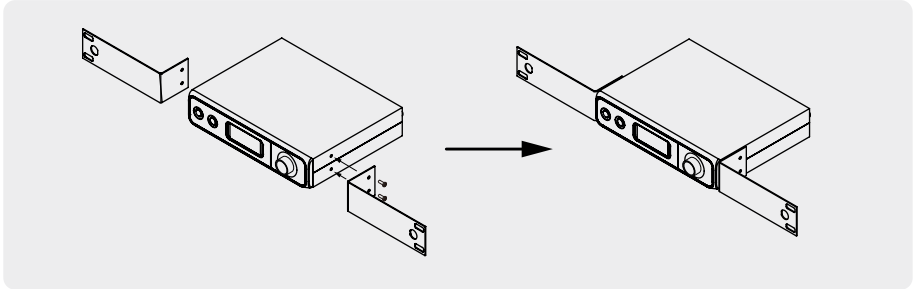
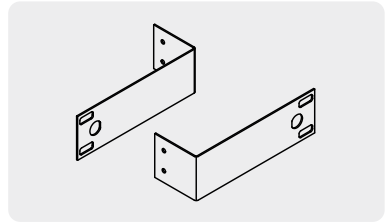
- The antenna connectors supply DC bias power; avoid prolonged short circuits.
- If the receiver is mounted inside a rack, use antenna extension accessories to relocate the antennas to the front of the rack to prevent signal loss caused by metal obstruction.
- For best reception, position the receiver at least 1 meter above the ground, maintain at least 1 meter of separation between the antennas and the transmitter, and keep both away from strong electric fields or other interference sources.



Rack Mounting Method

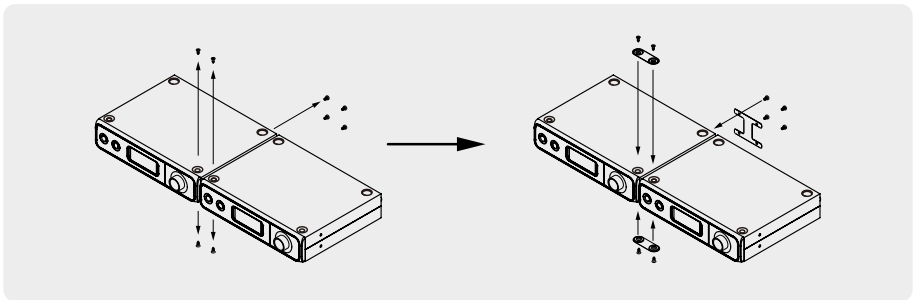
- **Half-U or 1U Rack Mount Installation:**

Attach the optional rack-mount brackets to both sides of the receiver, then secure the unit directly to the front frame of a standard 19-inch rack.

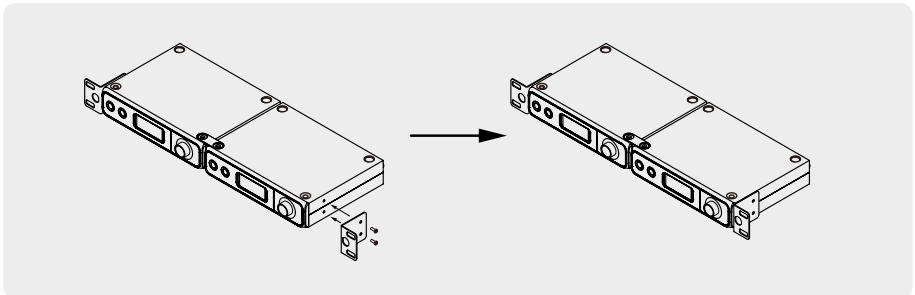


- **Dual Half-U Receiver (9.5-inch) Combined Installation:**

Use the optional joining bracket to connect and combine two half-U receivers into a single 1U receiver unit.

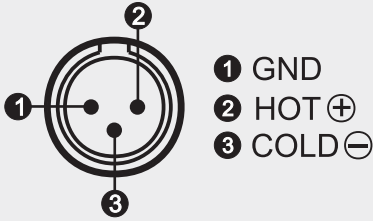


- Secure the left and right 1U rack-mount brackets with screws, then install the receiver directly onto the front frame of a standard 19-inch rack.



■ Audio Output Connection

- XLR Pin Configuration:



■ LEVEL Switch Setting Recommendations

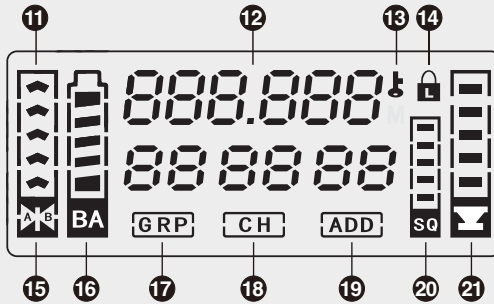
- Adjust the LEVEL switch on the rear panel of the receiver according to the type of audio equipment connected.

Input Equipment	Recommended Setting
Professional Mixer (MIC IN or LINE IN)	0 dB, or +16 dB (It is recommended to start with the 0 dB setting.)
Powered Loudspeaker (MIC IN)	-6 dB or 0 dB (Avoid excessive output that may cause distortion.)

Note: Since the input sensitivity of each device varies, it is recommended to start testing from the lowest output setting and adjust according to actual requirements.

LCD Display and Function Description

■ Display Information



LCD Indicators

- ① **RF Level:** Displays the received RF signal strength from the transmitter.
- ② **Frequency:** Shows the operating frequency currently assigned to the receiver.
- ③ **Encryption:** Indicates that encrypted transmission is active between the transmitter and receiver.
- ④ **Receiver Lock:** Shows that the receiver's controls are locked to prevent accidental changes.
- ⑤ **A/B Diversity:** Displays which antenna (A or B) is currently providing the stronger RF signal.
- ⑥ **Battery Level:** Shows the transmitter's remaining battery level as reported over the RF link.
- ⑦ **Group:** Displays the current frequency group.
- ⑧ **Channel:** Displays the current channel within the selected group.
- ⑨ **PC Remote Address:** Shows the receiver's address for PC or network-based remote control.
- ⑩ **Squelch:** Indicates the squelch threshold setting, which mutes audio when the RF signal is too weak.
- ⑪ **Audio Level:** Displays the received audio signal level from the transmitter.

■ Jog Dial Operation Functions

- Rotate the Jog Dial to change values.
- Press the Jog Dial to switch options or save settings.
- The LCD function menu cycles through the following items in order when using the Jog Dial:



■ Recommendations for Multi-Receiver System Setup

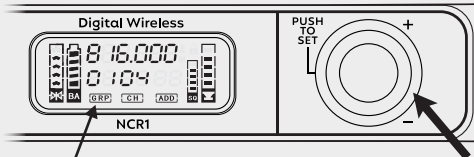
- When using multiple receivers at the same time, select channels within the same group that are free of interference. If you need more channels than a single group provides, continue selecting interference-free channels in another group.
- For best performance, use an antenna distributor so multiple receivers can share a single pair of antennas. This simplifies cabling and improves reception consistency across the system.

■ Scan for Available Frequencies

Scanning is a two-step process. First you choose which Group to scan, then the receiver searches that group for a clear **Channel**.

• Select a Group to scan

1. Press the jog dial until the GROUP icon begins flashing.



GRP Box Starts Flashing

Rotate clockwise to change the group number from low to high.

Rotate counterclockwise to change the group number from high to low.

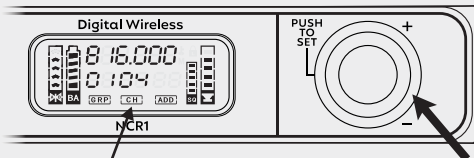
2. Rotate the jog dial to choose a Group (1-7). Turning clockwise moves to higher group numbers; counterclockwise moves to lower numbers.

Notes:

- Multiple receivers can typically operate within the same Group in a single installation.
- For a complete list of operating frequencies and their corresponding Group/Channel assignments, see the Frequency Reference Table in the appendix.

• Scan for Available Channels

1. Press the jog dial until the CHANNEL icon begins flashing.



CH Box Starts Flashing

Rotate clockwise to change the channel number from low to high.

Rotate counterclockwise to change the channel number from high to low.

2. Rotate the jog dial slightly to begin the scan. The receiver scans in the direction you turn: clockwise selects higher channel numbers, and counterclockwise selects lower ones. The two-digit channel display will animate briefly while the receiver evaluates each frequency.

During scanning, the receiver may:

- **Re-check a channel** before rejecting it and moving to the next available channel.
- **Skip immediately** to the next channel if the interference is clearly too strong for use.

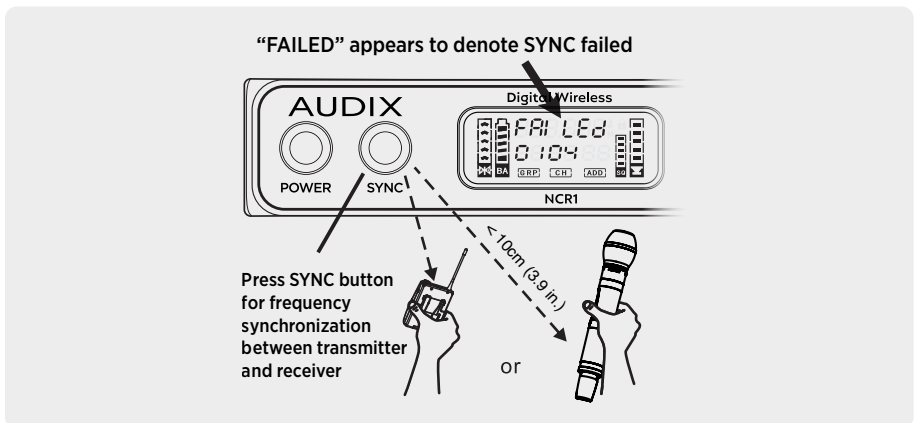
This variation is normal. A marginal channel may be checked twice, while a clearly occupied channel is skipped right away.

Note: If Squelch is set to **MAX**, the receiver does **not** perform this automatic channel-quality check. The selected channel is accepted immediately without scanning. (See the Squelch section for full details.)

■ Synchronize the Transmitter with the Receiver

Synchronization sends the receiver's operating settings to the transmitter via infrared (IR) and establishes the RF/battery monitoring link. Keep the transmitter close to the SYNC button for reliable operation.

1. Power on the transmitter and hold it within 10 cm of the receiver's SYNC sensing area.
2. Press the SYNC button. The display switches to the SYNC screen.



Important: The IR emitter is built into the SYNC button. Ensure nothing blocks the line of sight during synchronization.

- The transmitter updates to the new settings within about 10 seconds.
- The receiver shows RF and battery indicators once the link is established.
- If synchronization fails, the receiver displays FAILED (as shown in the diagram). Press SYNC to retry.

Note: Once the first transmitter is synchronized, keep it powered on and repeat the Group selection and Scan process for each additional system in your setup.

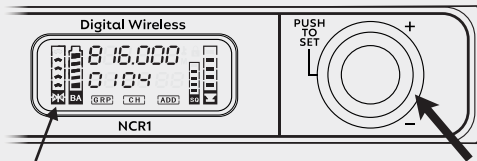
■ Antenna Auto Selection Setting

The receiver automatically selects the antenna with the stronger signal. This Auto mode is the factory default and is recommended for all normal operation.

You can enter a temporary manual antenna selection mode to select Antenna A, Antenna B, or Auto for installation testing. This mode is useful for checking the reception performance of each antenna individually.

■ Accessing the ANT Setting and Entering Manual Antenna Selection

- Press the Jog Dial to cycle through menu functions until the ANT indicator begins flashing.



Begins to flash

Rotate the jog dial to switch between three antenna selection modes.

- When the ANT indicator is flashing, **press and hold the Jog Dial for 2–3 seconds** until the indicator flashes again. This enables manual antenna selection mode.
- Rotate the Jog Dial to choose **A**, **B**, or **Auto**.

Antenna A



Antenna B



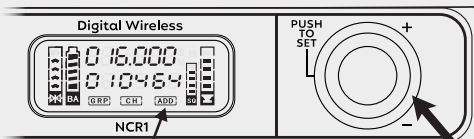
Automatic switching



- Pressing the Jog Dial or restarting the unit exits manual antenna selection mode and returns the receiver to Auto Selection.

■ ADD: Monitoring Address Setup

- Each receiver can be assigned a unique address between 01 and 64, allowing the computer's management interface to perform remote monitoring and control.
- When multiple receivers are connected in series, do not assign duplicate addresses; otherwise, monitoring conflicts may occur, preventing proper operation.
- The ADD address setting is valid only when the monitoring function is enabled. If not used, this setting can be ignored.
- Press the Jog Dial to cycle through menu functions until the ADD indicator begins flashing.



ADD Box Starts Flashing

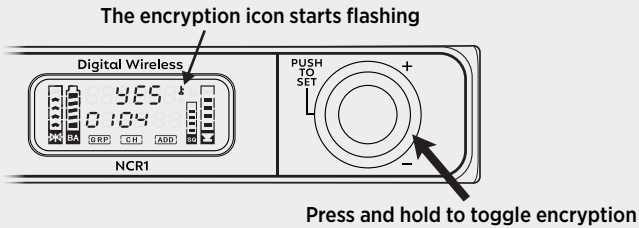
Rotate clockwise to change the ADD number from low to high.

Rotate counterclockwise to change the ADD number from high to low.

- Once the address is set, the system automatically stores it and applies it upon the next startup.

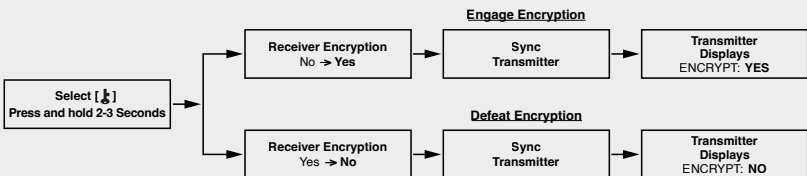
🔑: Encryption & Decryption Setup

- Press the Jog Dial repeatedly until the encryption icon appears and begins flashing, then press and hold the Jog Dial for 2-3 seconds to toggle between “YES” and “NO”. When encryption is enabled, the icon appears; when disabled, the icon disappears.



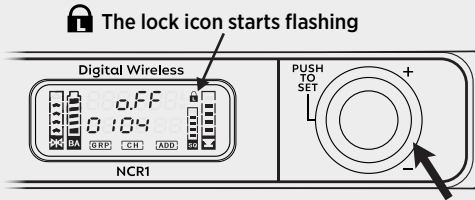
Note: After changing the encryption status, press the SYNC button again to transmit the encryption key to the transmitter.

- The transmitter cannot change its own encryption or decryption status; it can only display whether it is currently encrypted or decrypted.
- Any time the encryption setting is changed on the receiver, the transmitter must be synchronized using the SYNC function to complete the encryption or decryption process.
- A transmitter that has been encrypted will not operate with other receivers, even on the same frequency, until SYNC is performed again.
- Each time SYNC is pressed, a new encryption key is generated, creating a unique and secure password.



■ Panel Lock / Unlock

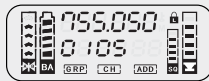
- Press the Jog Dial repeatedly until the lock icon appears and begins flashing, then rotate the Jog Dial to select “**ON**” (Lock) or “**OFF**” (Unlock), and press the Jog Dial to confirm.



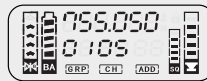
Rotate to select Panel Lock or Unlock.

- When “**ON**” is selected and confirmed, the lock icon appears steadily and the panel is locked with all function keys disabled; when “**OFF**” is selected, the icon disappears immediately and the panel is unlocked, which is required before modifying or configuring any parameters.

Locked

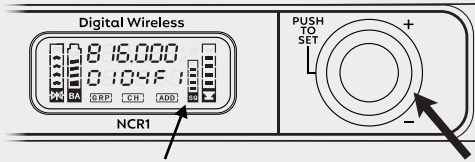


Not Locked



■ SQ:RF Sensitivity Setting

1. Press the Jog Dial repeatedly until the SQ box appears and begins flashing.



SQ Box Starts Flashing

Rotate clockwise to increase one step

Rotate counterclockwise to decrease one step

- Rotate the Jog Dial clockwise to increase the SQ value one step, or counterclockwise to decrease it.
- Press the Jog Dial to confirm the new SQ setting; the flashing stops and the value is saved.
- The SQ setting does not affect the receiver's RF sensitivity; it sets the minimum RF quality required for the receiver to open the audio.
- When SQ is set to its maximum value, the receiver bypasses its automatic channel-quality check during channel selection and will accept the selected channel without performing its usual interference evaluation.

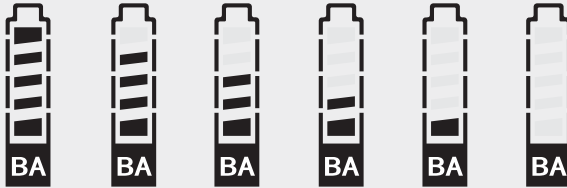
Note: Lower SQ values make the receiver more responsive to weak RF signals and can extend usable range, but may allow more noise or interference; higher SQ values require a stronger, cleaner RF signal before audio opens, reducing noise at the cost of range.

■ Battery Level Indicator

The receiver displays the transmitter's battery level in real time so you can monitor remaining runtime during operation.

- When the battery level drops to 1–2 bars, replace or recharge the batteries as soon as possible to avoid audio dropouts or signal interruption.

Note: Battery bar behavior can vary slightly depending on the transmitter model and the type of batteries used. For detailed battery-runtime information, refer to the transmitter's user manual.



■ Common Malfunctions and Troubleshooting

Phenomenon	Possible Cause	Recommended Solution
No audio output	The transmitter and receiver are not on the same frequency, the audio level is too low, or the audio cable is not connected properly.	Verify that the transmitter and receiver frequencies match, check cable connections, and adjust mixer or system volume.
RF signal present but no AF response	The receiver's audio output is not connected correctly, or the mute function is enabled.	Check the audio connection and disable mute if active.
Audio dropouts or noise	Antenna obstruction, excessive distance, or interference from another device on the same frequency.	Adjust antenna orientation, reduce distance, or switch to a different channel.
AF overload	Input level too high causing distortion	Lower the transmitter's input level or select a lower LEVEL setting.
Display shows ERRO1	Internal data error.	Restart the unit. If the issue continues, contact service.

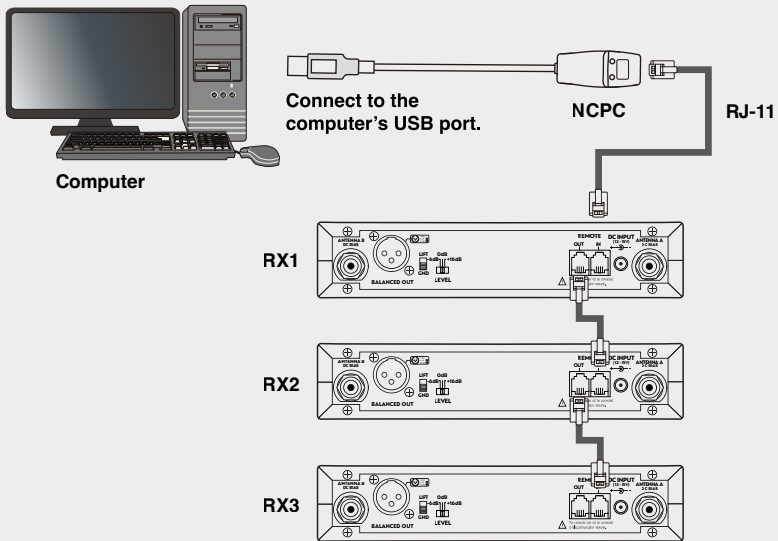
Note: Input sensitivity varies between devices. For best results, begin testing with the lowest output setting and increase only as needed.

Computer Control and Network Connection Operation

This receiver supports computer-based remote monitoring. When connected through the optional NCPC adapter (RJ-11 to USB) and used with the Novacore Frequency Coordinator, multiple receivers can be monitored and managed from a single computer.

■ Connection Architecture

- Connect the **Interface Output (OUT)** jack of the first receiver to the **Interface Input (IN)** jack of the next receiver, and continue linking all receivers in the same daisy-chain sequence.
- Connect the Interface Input (IN) jack of the final receiver in the chain to the NCPC adapter.
- Connect the NCPC adapter to the computer using a USB cable.
- Up to **64 channels** can be linked in one chain.
- The maximum supported cable length is **300 meters**, but for stable data transmission, it is recommended to keep the total distance within **100 meters**.



Frequency Reference Table – Group and Channel Counts

- Groups 1-2: 12 channels each
- Groups 3-6: 24 channels each
- Group 7: 16 user-programmable channels (factory default 542 MHz)

FREQUENCY	GRP	CH
494.050	5	1
494.450	6	1
494.500	2	1
494.725	3	1
494.825	5	2
494.925	1	1
495.300	4	1
495.425	6	2
495.850	3	2
496.450	4	2
496.675	2	2
497.300	3	3
497.675	5	3
497.675	6	3
498.020	1	2
498.175	3	4
498.825	6	4
498.925	4	3
499.175	5	4
499.800	5	5
499.875	3	5
500.175	4	4
500.900	6	5
501.250	3	6
501.475	4	5
501.550	2	3
501.850	5	6
501.950	3	7
501.975	6	6
502.825	4	6
503.350	1	3
503.375	2	4
503.575	6	7
504.100	4	7
504.400	5	7
504.425	3	8
504.875	2	5
505.200	6	8
505.550	1	4
505.950	4	8

FREQUENCY	GRP	CH
506.125	5	8
506.650	3	9
507.250	2	6
507.350	3	10
507.550	6	9
507.650	1	5
508.325	5	9
508.975	4	9
509.975	6	10
510.225	4	10
510.400	3	11
510.850	5	10
510.975	1	6
511.750	3	12
511.875	4	11
512.025	6	11
512.150	2	7
513.100	5	11
513.125	6	12
513.600	3	13
513.850	5	12
513.925	4	12
514.700	1	7
514.725	4	13
514.900	6	13
515.125	5	13
515.400	2	8
515.875	3	14
516.850	3	15
517.025	5	14
517.050	4	14
517.675	3	16
517.675	4	15
518.150	5	15
518.400	4	16
518.700	6	14
518.975	2	9
519.575	4	17
519.625	5	16
520.125	6	15

FREQUENCY	GRP	CH
520.225	4	18
520.425	1	8
520.600	5	17
520.725	3	17
522.150	4	19
522.475	3	18
523.050	2	10
523.300	6	16
523.375	5	18
524.200	4	20
524.725	5	19
524.850	6	17
525.600	5	20
526.275	6	18
526.625	4	21
526.650	3	19
527.750	5	21
528.700	6	19
528.750	3	20
528.925	1	9
529.225	2	11
529.325	4	22
530.050	3	21
531.525	6	20
531.775	3	22
532.425	3	23
532.675	1	10
533.200	4	23
533.425	6	21
534.175	5	22
534.625	1	11
535.125	6	22
535.500	5	23
536.425	5	24
536.675	1	12
536.675	6	23
538.700	2	12
540.500	6	24
541.700	3	24
541.850	4	24

Warranty

All Audix products are warranted to the original purchaser to be free from defects in materials and workmanship from the date of purchase, as follows:

- **5 years for VLM dynamic microphones**
- **3 years for Fusion Series and condenser microphones**
- **1 year for all other products**

If a product fails due to a defect in materials or workmanship, Audix will repair or replace the product at its discretion at no charge, provided that proof of purchase from an authorized Audix dealer is supplied. Shipping costs for warranty repairs or returns are not covered. This warranty does not apply to damage caused by normal wear, misuse, environmental conditions, shipping, or failure to follow the supplied instructions.

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