

USER MANUAL

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Software Version 1.02



ZAXCOM.COM

Zaxcom RX12 / QRX212 Module

Streamlined Reception

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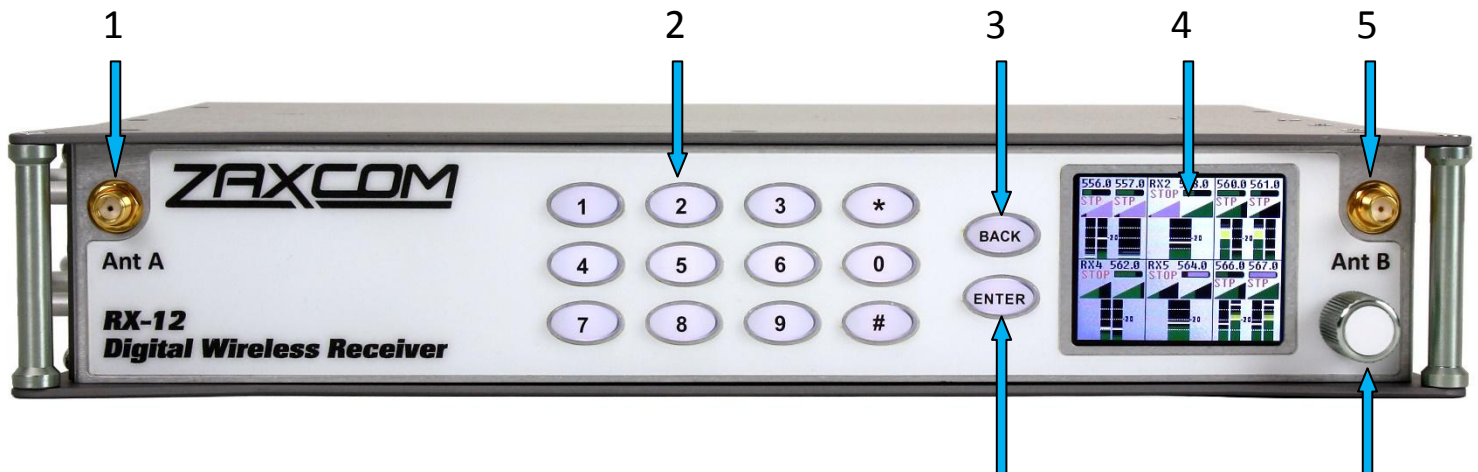
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Know Your RX12

Front Panel

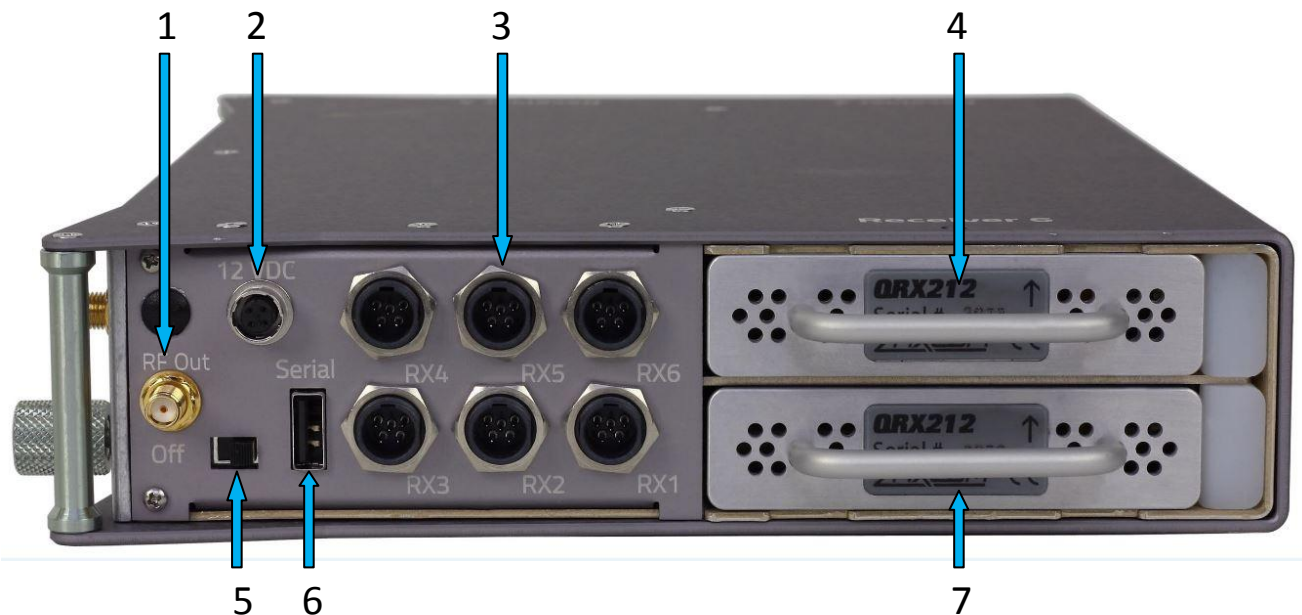


1. UHF Antenna A
2. Numeric keypad
3. Back Key
4. Daylight Readable Color LCD Screen
5. UHF Antenna B
6. Enter Key
7. **Menu Encoder Knob** - Press the menu knob to access the RX12 menu. Rotate and press to adjust the menu perimeters.

Navigation shortcut from the home screen:

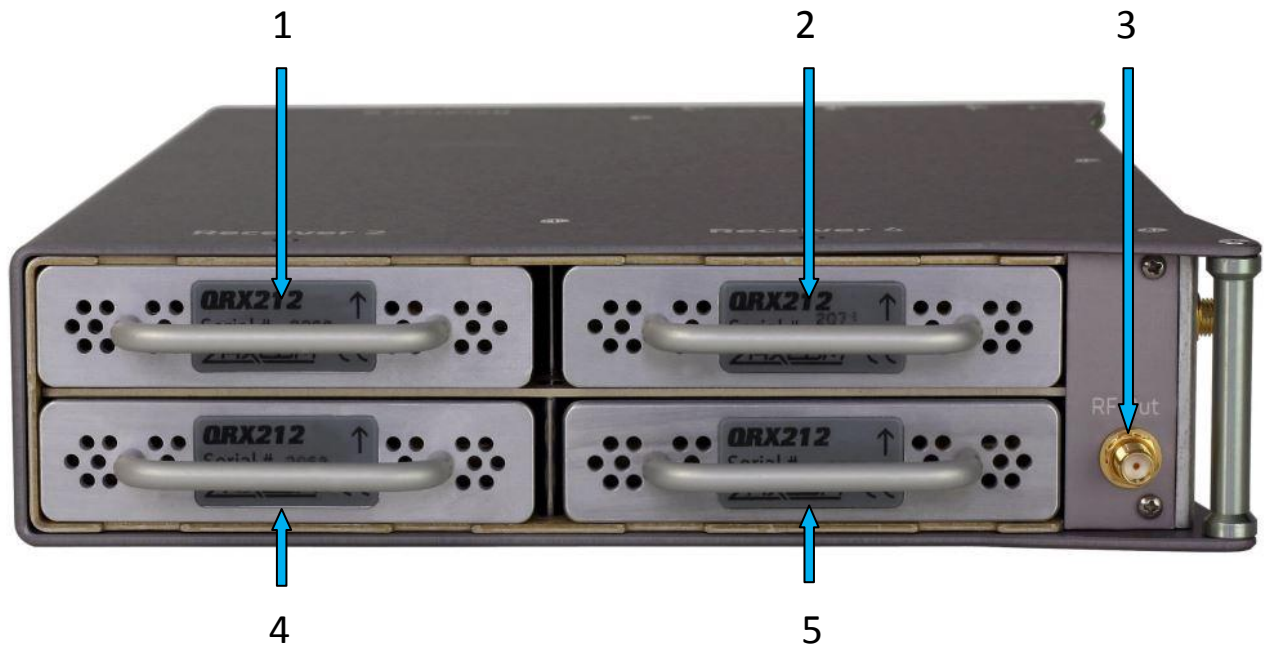
- Pressing the star key will advance to the receiver configuration menu
- Pressing the pound key will advance to the scan menu.

Right Side



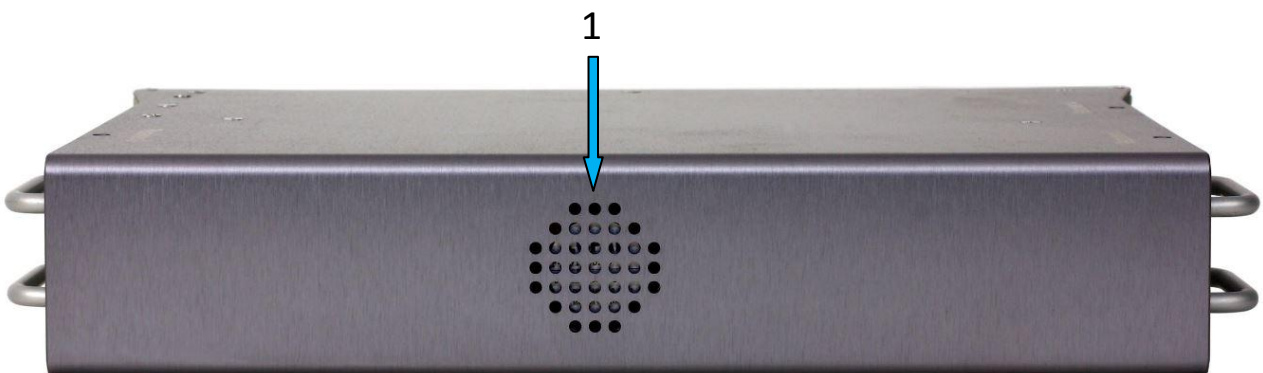
1. **UHF Antenna B RF Loop through RF Out** - The RF out is after the 35MHz filter and has 3dB of gain.
2. **External Power Connector (Hirose-4F)** Voltage range 10 to 18 VDC
3. **Audio Outputs for Modules 1 - 6 (TA-5M)**
Each output can be configured to output analog or AES audio.
Please note when outputting more than two signals the modules will need to output an AES signal.
4. **QRX212 Module Position 6**
5. **Power Switch**
6. **Serial Communication Port**
The Serial port is used to connect the RX12 to a Nomad, IFB200, TRX900CL or QRX with QIFB.
When connected the RX12 can send remote frequency and gain commands to the TRX transmitter.
7. **QRX212 Module Position 5**

Left Side



1. QRX212 Module Position 2
2. QRX212 Module Position 1
3. UHF Antenna B Loop through RF Out – The RF out is after the 35MHz filter and has 3dB of gain.
4. QRX212 Module Position 3
5. QRX212 Module Position 4

Rear



1. Vent Fan

Inserting the QRX212 Modules



Rear view of the QRX212 Module



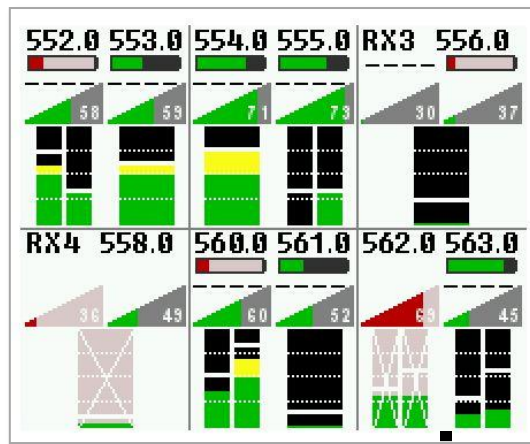
QRX212 Modules slide into the RX12 with the arrow pointing to the top of the RX12



Fastening screws

- With the arrow on the QRX212 module pointing to the top of the RX12 gently insert the QRX212 into the RX12 frame until you feel the module mate with the RX12.
- Insert the supplied screw through RX12 into the QRX212 to hold the module in place. Caution: do not over tighten the screw. The screws for the top RX212 modules will go through the top of the RX12 and the screws for the bottom modules will go through the bottom of the RX12.

Home Screen Explained

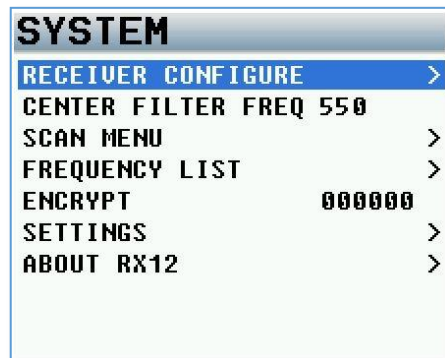


The home screen is divided into six sectors, one sector for each QRX 212 module. Each sector will display the following information:

- **Frequency** - The current selected frequency will be displayed for each receiver. If the module is in dual mode both frequencies will be displayed. The A frequency will be on the left and the B receiver will be on the right. If the frequency is highlighted in red that means the selected frequency is outside the 35MHz filter. Keep in mind while frequencies outside the range of the 35MHz may still work though performance will be less than optimal.
- **Battery level** - A battery indicator will display the approximate battery level for each transmitter. A fully charged battery will display green and then turn red as the battery depletes its charge. The battery icon will start blinking when the battery has roughly 15 to 30 minutes of charge left. Please note that when the battery is low the transmitter may not go into record.
- **Transport status** - The transport status of the TRX transmitter's onboard recorder will be indicated just above the RF signal strength meter:
 - STOP – Recording / Playback is stopped
 - REC – TRX is recording
 - PLAY – The TRX is playing back
- **RF Signal Strength** - Each module has two RF meters, one for each receiver. The meters show the amount of RF signal being received. The signal level is visually displayed in the ramp shaped RF meter icon. As the shading increases from the left to the right the more signal is present. If the icon is shaded red that means the receiver is seeing unwanted RF from a source other than from a TRX transmitter. If the icon is green the RF is being received from a TRX transmitter. Within the icon the actual signal strength, in decibels, is displayed numerically.
- **Audio meter** - Each module will display audio meter(s) for each signal received. If the module is set to single mode one large meter will be shown. If the module is set to dual mode two large meters will be shown. If the module is receiving a signal from a stereo transmitter the large meter will be split in half into two smaller meters, representing the left and right audio of the transmitter. The meters will show the audio modulation in dBFS. Within each meter the signal will be represented in green, yellow and red showing the levels, there is also a peak hold indicator. If a meter has a white X through it that is showing that the receiver is not receiving a valid signal.
- **Save Indicator** - A pixel on bottom of screen that moves right to left indicates that the RX12 is saving a parameter setting to its memory. If the RX12 is powered down while the pixel is moving the settings will not be saved and could possibly corrupt the setting memory.

System Menu

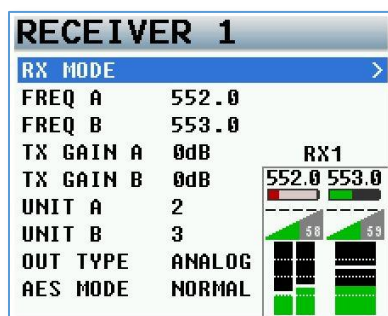
To access the system menu press the MENU encoder knob.



Receiver Configure Menu

The receiver configure menu is where each of the 6 QRX212 receiver modules are be set up from. To access the receiver configure menu press the star key from the home screen. Or select it from the system menu.

Once in the receiver configure menu individual receiver modules can be accessed by pressing the corresponding number key on the numeric keyboard.



In each receiver configuration menu the status of each transmitter will be shown. This is the same configuration that is in the home screen. Included are the frequency, battery level, signal strength and audio levels.

RX Mode

From the RX mode menu each individual QRX212 module can be powered on and off and set to single or dual mode.

Mode

- Single – The QRX212 module is set to receive a single TRX transmitter.
- Dual – The QRX212 module is set to receive signal from two TRX transmitters

Power

This is used to toggle on and off the power to the QRX212 module. Turning power off will shut off the individual module and will conserve power.

Frequency

This displays the current frequency that the QRX212 is set to and is where the frequency for the A and B receiver can manually be set from.

To set the frequency highlight the frequency of the receiver you would like to change and rotate the menu encoder knob, or press the desired frequency on the numeric keypad.

Transmitter Gain

If the RX12 is connected to a Nomad, IFB200, TRX900CL or a QRX with QIFB, the gain for each TRX transmitters can be adjusted from here and will be remotely sent to the TRX transmitters via the serial port connection.

Unit Code

This is where the ZaxNet unit code for each module is set. The unit code on each QRX212 receiver must match the unit code set in the TRX transmitter so that remote frequency and gain commands can be sent to the proper transmitter. Each receiver and transmitter pair must have its own unique unit code. The unit code number can be set to any number between 1 and 99.

Output Type

The output type sets what audio signal the individual QRX212 module will output via the TA5 connector. Each module can be set to output the audio as either an analog signal or an AES signal.

AES Mode

There are two AES output pairs per QRX212 module. When receiving two mono transmitter signals on a single QRX212 module the two audio channels will appear on one AES pair by choosing the AES swapped mode

Tone

Each QRX212 module has its own tone oscillator. Turning tone on will output tone from the TA5 connector at -20dBFS allowing for the levels to be calibrated at the mixer or recorder.

Center Frequency Set

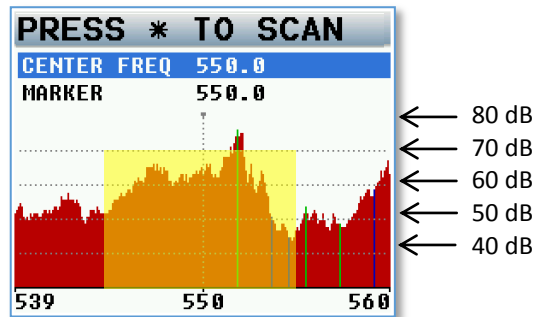
The RX12 has a 35MHz tracking front end filter that eliminates unwanted stray RF which can desensitize the receiver and result in poor performance.

The center frequency is the middle frequency of the 35MHz window.

After deciding on the 35MHz operating range the center frequency should be set to the middle of that range. Therefore the best performance of the RX12 will be frequencies chosen 17.5MHz above and 17.5MHz below the center frequency. Please note that this is a global setting for all QRX212 modules meaning that that the 35MHz window will be the same for all modules.

To adjust the center filter rotate the menu encoder knob to the desired frequency, or manually enter the desired frequency using the numeric keypad.

Scan Menu



From the scan menu is where the RX12 can search the spectrum to determine what RF is present. This will aid in finding a clear operating frequencies. After a scan the RF that is present will be represented in the graph by a series of vertical lines extending from the baseline up, the higher line the stronger the RF signal is.

The horizontal lines show the strength of the signal in decibels. Any stray RF below 40dB shouldn't have too much effect on the performance.

The yellow area shows the 35MHz window of the filter.

The colored vertical lines will show the frequencies that that the QRX212 modules are currently set to.

To initiate a scan press the star key. After scanning the current 35MHz window the filter can be repositioned by moving the center frequency and additional scans can be performed to show more of the spectrum; the RX12 will remember the previous scans and add the new scan to those.

When in the scan menu pressing the number 1 key will zoom out showing more of the scanned spectrum and pressing the number 2 key will zoom in magnifying the scanned spectrum.

After the scan is completed frequencies can be chosen and set manually or Auto-Pick can be used which allows the RX12 to determine the frequencies.

Center frequency

The center frequency is the frequency that is in the middle of 35MHz filter. The filter extends 17.5MHz above and 17.5MHz below the center frequency. Adjusting the center frequency will physically move the location of the filter. To adjust the filter rotate the menu encoder knob or enter the desired frequency on the numeric keypad.

Marker

The marker is for visual identification to examine a specific frequency within the scan. To adjust the marker rotate the menu encoder knob or manually enter the desired frequency on the numeric keypad.

Frequency List / Auto-Pick

AUTO-PICK		
Select channels and press *		
RX1AB	SINGLE	552.0
RX2A	DUAL	554.0
RX2B	-	555.0
RX3AB	SINGLE	556.0
RX4AB	SINGLE	558.0
RX5A	DUAL	560.0
RX5B	-	561.0
RX6A	DUAL	562.0

This page displays the current chosen frequency of each receiver module. If a module is set to dual mode both frequencies will be displayed. From this page frequencies can be selected so Auto-Pick can change the frequency of any receiver(s).

How to use Auto-Pick

1. Select a receiver by rotating the menu encoder knob.
2. Press the encoder knob to select the receiver. That will put a green check mark to the right of the frequency that will be changed.
3. After all the desired receivers are selected, press the star key to let the RX12 choose a frequency with the cleanest scan for each receiver.
4. Press the # Key to uncheck the receiver(s).

AUTO-PICK		
Select channels and press *		
RX1A	DUAL	552.0
RX1B	-	553.0 ✓
RX2A	DUAL	554.0
RX2B	-	555.0
RX3AB	SINGLE	556.0 ✓
RX4AB	SINGLE	558.0 ✓
RX5A	DUAL	560.0
RX5B	-	561.0

Encryption

This is where the encryption code of the RX12 is set. If the TRX transmitter that is sending audio has encryption turned on the RX12 can only listened to it if it has the same matching encryption code entered. When the codes do not match, all that will be heard is white-noise.

Each individual QRX212 module will share the same encryption code therefore if encryption is turned on all TRX transmitters will need to have encryption enabled as well.

The encryption code should always be set to 000000 for normal un-encrypted operation.

Settings Menu

SETTINGS	
FAN SPEED	OFF
LCD BRIGHTNESS	10
QRX PROGRAM MENU	>
RECALL FACTORY DEFAULTS	>
ZAXNET FREQ CONTROL	OFF
SERIAL PORT MODE	NOMAD
ADVANCED SETUP	>

Fan Speed

The RX12 has an adjustable cooling fan on the bottom of the unit. The fan can be turned off or adjusted from 1 through 10 with 10 being the highest setting.

LCD Brightness

The LCD screen and backlight key board is adjustable; this menu allows for brightness adjustments. The brightness can be adjusted between 0 and 10 with 10 being the brightest.

QRX Program

This menu shows the status of each QRX212 module and the current software version that the module is running

How to update the software for the QRX212 modules

1. Insure that a stable power supply is connected to the RX12.
2. Set the frequency on all the receiver modules to the same frequency that the TRX transmitter that is being used to send the software is set to.
3. Confirm that the encryption code is set to off on the RX12 and the TRX transmitter.
4. Go into the QRX program menu on the RX12.
5. Press the star key, each QRX212 module should then display that it is "WATTING" for software.
6. Insert the micro SD with the program file (QRX-XXX.BIN) in the programing TRX transmitter.
7. At the TRX transmitter
 - Make sure the TRX has fully charged batteries installed.
 - Press and hold the MENU key while powering the TRX ON.
 - Verify the allow IFB remote control is set to OFF.
 - Go to the send QRX program menu.
 - Press the INC key.
 - The TRX will indicate that it found the program on the card and has started sending it.
8. When the program file is being received by the RX12, and the QRX212 modules are receiving the program file, the sectors will start counting up.
9. When each module is updated "SUCCESS" will be displayed.
10. If a module does not receive all of the sectors wait, the TRX will begin resending the software again on its own, and will continue to transmit until manually stopped.
11. When all the modules are updated you may stop the TRX transmitter.
12. Power cycle the RX12 and confirm that each QRX212 module is running the updated software.

Recall Factory Defaults

From this menu the RX12 can be reset to the factory default setting.

ZaxNet Frequency Control

When enabled the RX12 will send frequency and gain change commands, via ZaxNet to the corresponding TRX transmitter when the gain or receiver frequency is changed.

Serial Port Mode

When the ZaxNet frequency control is turned on the RX12 can communicate frequency and gain changes to the TRX transmitters via the serial port on the RX12. The serial port will need to be plugged into the serial port of a Nomad with ZaxNet IFB, an IFB200, TRX900CL, or a QRX with the QIFB option. Please note the Nomad will need to be running software version 7.24 or higher, the IFB200 / TRX900CL will need to be running software version 1.77 or higher, the QRX will need to be running software version 3.55 or higher.

How to send remote commands

Using an IFB200 or TRX900CL

In the extended menu:

- Set the RS232 MODE to AUDIO INPUT.
- Set the PHASE INVERT CH2 to OFF.
- Set the AUDIO INPUT to ANALOG.

Using an QRX with QIFB

In the extended menu:

- Set the SERIAL PORT MODE to ZAXLAN.

Using a Nomad with ZaxNet IFB

In the mode menu:

- GP REMOTE ROLL needs to be OFF.

In the TRX transmitter (running software version 9.02 or higher)

In the extended menu:

- Set IFB MODE to RX.
- Set the IFB RX FREQ to match the IFB TX FREQ on the IFB / CL / QRX / Nomad.
- Set the group code to match the group code on the IFB / CL / QRX / Nomad.
- Set the unit code matches the unit code on the RX12 receiver configure menu.

Advanced Set up

Burn Boot loader

The boot loader is part of the software that helps boot up RX12. Generally, the boot loader will not need to update. If the boot loader needs to be updated there will be a note released with the software to do so. The boot loader software is already contained within the RX12 software.

Debug Bits

The debug bits are a factory diagnostic setting and should stay set to 0.

Allow Logging

Allow logging will turn on the logging feature which will allow the RX12 to log warning and error messages which then can be used by the factory to diagnose the RX12. The logged messages are displayed on the log screen. If logging is not turned on, and an error occurs the RX12 will not log the errors.

Log Screen

This is where the RX12 displays the logged errors and warnings.

RX12 Connector Assignments

Single Analog Channel out of one TA5

TA5 out on RX-12		XLR into Mixer
PIN 1	→	PIN 1 (Ground)
PIN 2	→	PIN 2 (+)
PIN 3	→	PIN 3 (-)
PIN 4		No Connection
PIN 5		No Connection

Two Analog Channels out of one TA5

TA5 Out on RX-12		XLR into Mixer
PIN 1	→	PIN 1 on both XLRs
PIN 2	→	PIN 2 - Left (+)
PIN 3	→	PIN 3 - Left (-)
PIN 4	→	PIN 2 - Right (+)
PIN 5	→	PIN 3 - Right (-)

AES Digital out of TA5

Please note while sending digital output, it is necessary that the unit on the other end (recorder, mixer, etc.) have digital inputs with sample rate convertors, as there is no way to synchronize the output data with the recorder's digital input.

TA5 out on RX-12		Into Mixer
PIN 1	→	Ground
PIN 2	→	AES 1/2
PIN 3	→	AES 1/2
PIN 4	→	AES 3/4
PIN 5	→	AES 3/4

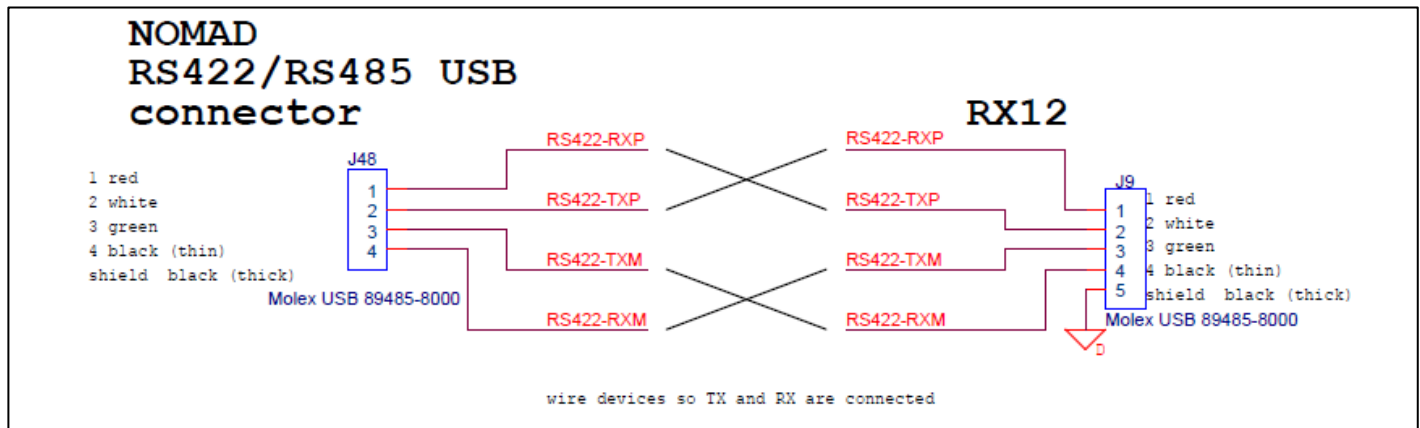
DC power in (Hirose HR10A-7P 4 Pin Male)

DC Power Source		Hirose 4 - Pin
Negative (Ground)	→	PIN 1
No Connection	→	PIN 2
No Connection	→	PIN 3
Positive	→	PIN 4

Serial Connector (USB RS-485)

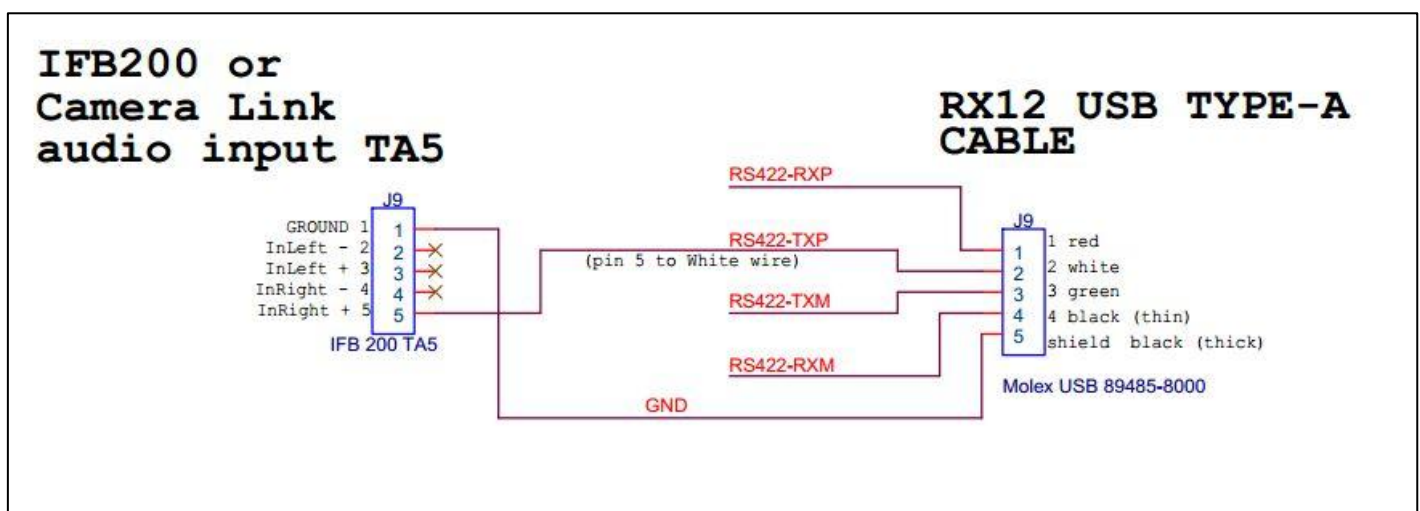
To Nomad or QRX

RX12		Nomad or QRX
WHITE (TXP)	→	RED (RXP)
GREEN (TXM)	→	BLACK (RXM)
RED (RXP)	→	WHITE (TXP)
BLACK (RXM)	→	GREEN (TXM)



To IFB200 or TRX900 Camera Link (USB RS-485 to TA5F)

RX12		IFB200 or TRX900CL
RED (RXP)	→	No Connection
WHITE (TXP)	→	PIN 5
GREEN (TXM)	→	No Connection
BLACK (RXM) THIN	→	No Connection
BLACK (SHIELD) THICK	→	PIN 1 (GROUND)



Updating the RX12 Firmware

Each RX12 is shipped with the latest firmware version installed. When newer firmware becomes available, it can be downloaded from the Zaxcom website: <http://www.zaxcom.com/software-updates>

Newer version of beta software may be found on the Zaxcom Forums: <http://www.zaxcom.com/forum>

Updating the Firmware

1. Format a micro SD card using a PC or Mac.
2. Using a PC or Mac download the new software (RX12Profile_vX.XX.bin) and copy it to the card. Make sure only one .BIN file is on the card.
3. Remove the cover of the RX12 noting the position of the longer and shorter screws.
4. With RX12 powered down, insert the micro SD card, which contains the .bin file, into the card slot inside the RX12. To insert the card use tweezers to hold the card and insert the left corner of the card first, as seen in the image below then slide the card fully into the slot
5. Press and hold the STAR key while powering on the RX12. If the RX12 goes blank shortly after powering up, cycle the power again while holding the star key.
6. Once "PREPARING TO BURN ROM" is displayed, the STAR key can be released.
7. After "POWER DOWN NOW" is displayed, cycle the power.
8. Verify that RX12 is running the version just installed in the about RX12 menu.



Product Support

Register your product with Zaxcom: <http://zaxcom.com/support/product-registration/>
Download the latest **Firmware** from: <http://zaxcom.com/support/updates/>
Download the latest **User Manuals** from: <http://zaxcom.com/support/updates/>
Submit Technical Questions at: <http://www.zaxcom.com/submit-a-technical-question>
Submit information for **Repair Services** at: <http://www.zaxcom.com/support/repairs>
Join the **Zaxcom User Forum** at: <http://www.zaxcom.com/forum/forum.php>
Join the **Zaxcom Face Book User Group** at: <https://www.facebook.com/groups/682199065139938/>

Zaxcom RX12 Specifications

Frame specifications

Analog audio output	Balanced 0dB @-20dBFS (2 channels receiver)
Digital audio output	AESEBU (2 pair per receiver)
Audio connectors	6 - TA5M
RF connectors	4 SMA including loop trough
RF impedance	50 ohms
RF gain input-output	4.0dB
RF amp noise figure	.5dB
RF amp IP3	+30dB input
RF filter band pass	35 MHz
RF tuning range	512MHz- 698MHz
Power	8VDC -18VDC (12VDC nominal @100ma) Hirose- HR10A-7P-4P
LCD screen	TFT daylight readable color 2.2" diagonal
Size	L=10.5 W=8.0 H=2.0 inches
Weight	5lbs 6oz (6 receivers loaded)

QRX212 Module specifications

Receivers per module	2
Receiver modulation	Zaxcom digital
Tuning range	512MHz- 698MHz
Power consumption	300ma @12VDC
Size	.8" x 3.0" x 5.0"

All Specifications are subject to change without notice.

Zaxcom Warranty Policy and Limitations

Zaxcom Inc. values your business and always attempts to provide you with the very best service.

No limited warranty is provided by Zaxcom unless your RX-12“Product” was purchased from an authorized distributor or authorized reseller. Distributors may sell Product to resellers who then sell Product to end users. Please see below for warranty information or obtaining service. No warranty service is provided unless the Product is returned to Zaxcom Inc. or a Zaxcom dealer in the region where the Product was first shipped by Zaxcom.

Warranty Policy

The Product carries a Standard Warranty Period of one (1) year.

NOTE: The warranty period commences from the date of delivery from the Zaxcom dealer or reseller to the end user.

There are no warranties which extend beyond the face of the Zaxcom limited warranty. Zaxcom disclaims all other warranties, express or implied, regarding the Product, including any implied warranties of merchantability, fitness for a particular purpose or non-infringement. In the United States, some laws do not allow the exclusion of the implied warranties.

Troubleshooting & Repair Services

No Product should be returned to Zaxcom without first going through some basic troubleshooting steps with the dealer you purchased your gear from.

To return a product for repair service, go to the Zaxcom Repair Services page <http://www.zaxcom.com/repairs> and fill in your information; there is no need to call the factory for an RMA. Then send your item(s) securely packed (in the original packaging or a suitable substitute) to the address that was returned on the Repair Services page. Insure the package, as we cannot be held responsible for what the shipper does.

Zaxcom will return the warranty repaired item(s) via two-day delivery within the United States at their discretion. If overnight service is required, a FedEx or UPS account number must be provided to Zaxcom to cover the shipping charges.

*Please note a great resource to troubleshoot your gear is the Zaxcom Forum: <http://www.zaxcom.com/forum>.

Warranty Limitations

Zaxcom’s limited warranty provides that, subject to the following limitations, each Product will be free from defects in material and workmanship and will conform to Zaxcom’s specification for the particular Product.

Limitation of Remedies

Your exclusive remedy for any defective Product is limited to the repair or replacement of the defective Product.

Zaxcom may elect which remedy or combination of remedies to provide in its sole discretion. Zaxcom shall have a reasonable time after determining that a defective Product exists to repair or replace a defective Product. Zaxcom’s replacement Product under its limited warranty will be manufactured from new and serviceable used parts. Zaxcom’s warranty applies to repaired or replaced Product for the balance of the applicable period of the original warranty or thirty days from the date of shipment of a repaired or replaced Product, whichever is longer.

Limitation of Damages

Zaxcom’s entire liability for any defective Product shall, in no event, exceed the purchase price for the defective Product. This limitation applies even if Zaxcom cannot or does not repair or replace any defective Product and your exclusive remedy fails of its essential purpose.

No Consequential or Other Damages

Zaxcom has no liability for general, consequential, incidental or special damages. These include loss of recorded data, the cost of recovery of lost data, lost profits and the cost of the installation or removal of any Product, the installation of replacement Product, and any inspection, testing or redesign caused by any defect or by the repair or replacement of Product arising from a defect in any Product.

In the United States, some states do not allow exclusion or limitation of incidental or consequential damages, so the limitations above may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Your Use of the Product

Zaxcom will have no liability for any Product returned if Zaxcom determines that:

- The Product was stolen.
- The asserted defect:
- Is not present,
- Cannot reasonably be fixed because of damage occurring when the Product is in the possession of someone other than Zaxcom, or
- Is attributable to misuse, improper installation, alteration, including removing or obliterating labels and opening or removing external covers (unless authorized to do so by Zaxcom or an authorized Service Center), accident or mishandling while in the possession of someone other than Zaxcom.
- The Product was not sold to you as new.

Additional Limitations on Warranty

Zaxcom’s warranty does not cover Product, which has been received improperly packaged, altered or physically abused.



Declaration of Conformity

ZAXCOM, INC.
230 West Parkway, Unit 9
Pompton Plains, NJ 07444
September 1, 2015

We certify and declare under our sole responsibility that the following product:

QRX200, QRX235, RX-12 and RX200 wireless microphone receivers
Restrictive use for residential, office and professional use only

Conforms with the essential requirements of the EMC Directive 2004/108/EC and
R&TTE Directive 99/5/EC, based on the following specifications applied:

EN 300 422-2 v1.3.1 Radio Parameters
EN 301 489-9 v1.4.1 Immunity
EN 60950: 2006/A1:2011 Product Safety (low voltage directive)
EN 50566: 2013 RF Exposure Safety

Our authorized representative in Europe is Mr. Roger Patel, Director of Everything
Audio located at Elstree Film Studios, Shenley Road, Borehamwood, Herts WD61JG in
England.

A handwritten signature in black ink, appearing to read "Glenn Sanders", is positioned above the printed name.

Glenn Sanders
President
Zaxcom, Inc.

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FCC Notice:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna*
- Increase the separation between the equipment and receiver*
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected*
- Consult the dealer or an experienced radio/TV technician for help.*

Changes or modifications to this equipment not expressly approved by Zaxcom, Inc. could void the user's authority to operate it.