

User Manual
Published October 2019
Firmware Version QR2-413



ZAXCOM.COM

QRX200
The Ultimate in Receiver Flexibility

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QRX200 Receiver

Front



1. **OLED Display**
2. **INC Key** - Used to increase the parameters of a menu item.
3. **UHF Antenna Connectors (2)** - SMA connectors.
4. **Menu Key** - Press to advance to the next menu item.
5. **Dec Key** - Used to decrease the parameters of a menu item
6. **Receiver Status Indicators**
 Green - Receiver is receiving a valid signal.
 Red - Receiver is not getting a valid signal.
7. **A/B Key** - Press to alternate between receivers in dual mode.
8. **Power Key** - Press and hold for 2 seconds to power up the QRX. Press and hold for 5 seconds to power down the QRX.

Rear



- 1. DC Power Input** - The QRX uses a Switchcraft 761K connector.

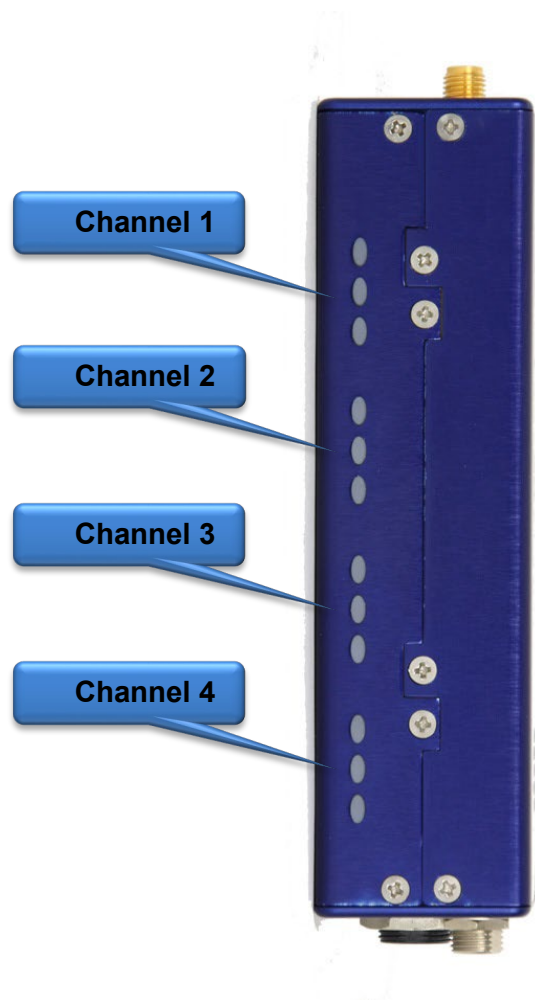


- 2. Audio out connectors (2) - TA5M**

These connectors will output the audio from the QRX. The same connectors can be used to output either analog audio or AES audio. The audio assignments for the TA5 connectors are set in the extended menu.

- 3. Serial Loop** -The USB style connectors on the back of the QRX allow multiple QRXs to share a single common QIFB option. For example one master QRX with a QIFB option board can be connected to 3 QRXs with no option boards. The QRXs without option boards will behave as if they have an IFB option board and will send remote control commands over the serial link to the master QRX. Please note the USB connectors are NOT generic USB connectors that can be used as a connection to any computer. These are used to exchange RS-422/RS-485 commands and a special cable is required to do this please see the wiring diagram section of this manual for more information.

Side

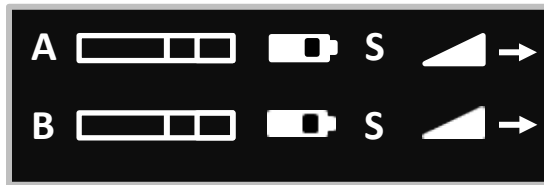


Side Mounted LEDs - The LEDs give visual indication if RF and / or audio are being received by the QRX. The LED settings are adjusted in the extended menu. There are three LEDs per group and one group for each receive channel. The group to the top represents channel one, the group below is channel 2, the next group is channel 3, and the group on the bottom is channel 4.

LED modulation colors

- ○ ● When the signal hits -40 dBFS
- ● ● When the signal hits -20 dBFS
- ● ● When the signal hits -10 dBFS
- ● ● When the signal hits - 8 dBFS
- ● ● When the signal hits - 5 dBFS

Home Screen



Receiver

The QRX has two individual receivers the A (left receiver) and the B (right receiver).

Audio level

Indicates the incoming audio level for each receiver, the meter extends from the left to the right. The two vertical bars to the right are the -20dBFS and -10dBFS mark.

Transmitter's battery level

The battery diagram displays the transmitter's battery level. The battery type being used in the transmitter needs to be set in the transmitters extended menu. The battery symbol will start to blink just before transmitter shuts down.

Transmitter's record status

- S (STOP) The transmitter is stopped.
- R (REC) The transmitter is recording.
- P (PLAY) The transmitter is playing back.

RF signal strength

This shows the radio signal strength of the corresponding transmitter. The RF signal is depicted as a staircase pattern with the lowest step (low signal strength) on the left and building up as it progresses to the right (higher signal strength). When more stairs are showing the stronger the signal is.

Receiving antenna

- ← Indicates the signal is being received by antenna 1 (left antenna connector)
- Indicates the signal is being received by antenna 2 (right antenna connector)

Main Menu

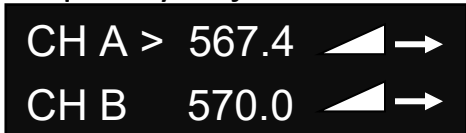
Navigating the Main Menu

- To enter the main menu - press the MENU key.
- To advance to the next menu press the MENU key again.

Exiting the Main Menu

- To exit the main menu at any time press and hold the MENU key for 1.5 seconds.

Frequency Adjust



The frequency select menu is where the QRX's receive frequencies are set. These frequencies need to match the frequencies that are set on the corresponding transmitters.

Adjusting the receive frequency of the QRX

- Press the INC key and DEC key to adjust the frequency.
- In dual receive mode pressing the A/B key will toggle between the A and B receiver. The > will indicate the receiver being adjusted.
- Please note that when in dual receive mode the A and B frequencies needs to be within 35MHz of each other. If the frequency difference is more than 35MHz "TOO BIG" or "TOO SMALL" will flash on the screen to warn that the difference is greater than 35MHz and the frequency will need to be adjusted.

Transmitter Gain Adjust

This menu is only available when transmitter remote control is set to "ON" in the extended menu.



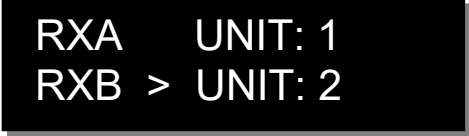
The transmitter gain menu allows for the input gain on the transmitter to be remotely adjusted when a QRX100 or QRX235 with an IFB option board is connected via the serial loop. The transmitter gain menu will display the gain level and an audio meter with a -20dBFS and -10dBFS mark on the right.

Adjusting the transmitter gain remotely

- Press the INC key to increase the transmitters gain. As the gain is increased "+ + +" will replace the gain level.
- Press the DEC key to decrease the transmitters gain. As the gain is decreased "- - -" will replace the gain level.
- When in dual mode pressing the A/B key will toggle between the two transmitters.

Unit Code Select

This menu is only available when transmitter remote control is set to "ON" in the extended menu.



```
RXA  UNIT: 1
RXB > UNIT: 2
```

This menu sets the unit code that will correspond to the transmitter that is being controlled. The unit code is a unique number used to identify a transmitter within a particular group. This allows individual transmitters that are within the same group to be independently controlled. Unit codes can be any number from 1 to 200.

Test Tone Output



```
TONE:
OFF
```

From the tone menu a 1K test tone can be enabled. The tone will be outputted from the TA5 connectors. This is used to set levels and check routing.

Pressing the INC and DEC key will cycle through the different tone settings.

- **OFF** - No tone is being outputted.
- **-20dBFS** -Tone is simultaneously sent to all 4 outputs at -20dBFS.
- **CHAN-ID** -Tone is sequentially sent to each channel one at a time at -20dBFS.
- **+0dBFS** - Simultaneously sends tone to all 4 channels at 0dBFS (full scale)

Frequency Scan

PRESS ↑ TO SCAN
ALL 200: 512 - 698

The frequency scan menu is where the QRX can scan the user specified frequency range and search for a clear frequency. After the scan is complete a graphical display of the RF that is present, in that specified range will be shown and the QRX200 will suggest a clear frequency. That frequency can be accepted by pressing the INC key. Or press the DEC key to skip the first chosen frequency and have the QRX200 suggest another frequency.

Single mode scanning

- Turn off the transmitter.
- Press the INC key to initiate a scan.
- While the QRX is scanning, the frequency being examined is displayed on the bottom half of the screen and a graphic map of the RF that is found will be displayed with a vertical line extending up from the baseline. The length of the line indicates the level or strength of the found RF at that frequency.



Selecting a frequency

When the scan is complete a suggested frequency will be shown and a vertical blinking line will be drawn on the display.

At that point:

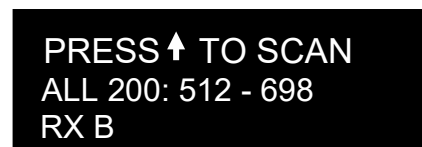
- Press the INC key to accept the frequency.
- Press the A/B key or the DEC key to suggest another frequency.



Dual mode scanning

In dual mode the two operating frequencies must be within 35MHz of each other. Pressing the INC key will scan the full chosen scan range (scan range is set in the next menu) and recommend a frequency from the entire range. If a second frequency is being chosen to work with a previous chosen frequency, press the DEC key to limit the scan to a 70MHz window which is 35MHz above and 35MHz below the other selected frequency. After a scan is triggered, by either pressing INC or DEC key, the QRX will scan and suggest a frequency. After the scan is completed that frequency can be accepted or rejected the same way as in single mode. If an exclamation point appears after the suggested frequency that is a warning that the shown frequency is more than 35MHz away from the other frequency. That frequency can be selected provided a new frequency that is within 35MHz of this frequency will be selected for the other receiver.

Please note that after the first scan turn on the first transmitter and set it to the chosen frequency, this way when the scan is performed for the second transmitter the QRX will not select the same, or adjacent, frequency. To toggle between scanning RXA and RXB press the A/B key.



Set Scan Range

SCAN LIMIT
ALL 200 512 - 698

The scan range menu sets what frequency range that the QRX200 will scan when doing a frequency scan. Pressing the INC and DEC key will cycle through the scanning options. If the scan range is changed the QRX200 will automatically jump back to the scanning menu when the MENU key is pressed.

Available Scan Ranges

- **All 200** - All frequencies from 512.0MHz through 698.0MHz will be scanned.
- **LO 100** - Corresponds to the frequency range of TRX3.5 transmitters, when selected frequencies from 512.0MHz through 614.0MHz will be scanned.
- **HI 100** - Corresponds to the frequency range of TRX3.6 transmitters, when selected frequencies from 596.0 through 698.0MHz will be scanned
- **BLK (20 -26)** – Allows the QRX to scan a specific block (Blocks 20-26).
 - Block 20 518-542 MHz
 - Block 21 536-572 MHz
 - Block 22 560-590 MHz
 - Block 24 614-644 MHz
 - Block 25 638-668 MHz
 - Block 26 662-698 MHz

Extended Menu

Navigating the Extended Menu

- Press and hold the DEC key from the home screen to enter the extended menu.
- To advance to the next menu press the MENU key.
- Press and hold the MENU key at any point to return to the top of the extended menu.

Exiting the Extended Menu

- To exit the extended menu - press the POWER key briefly.

Modulation Select

RX FMT: ZHD96

From this menu the modulation mode is selected. Modulation is simply the way a transmitter “modulates”, or sends, its signal to the QRX200. This setting needs to match the modulation mode that the corresponding transmitter is set to - if the two settings do not match the QRX will not be able to receive and decode the signal from the transmitter. Please note the QRX will need to be rebooted after a change is made to the modulation.

	STEREO	MONO	XR	ZHD 96	ZHD 48
Modulation Bandwidth	200 kHz	200 kHz	200 kHz	96 kHz	48 kHz
Minimum Channel to Channel Spacing	400 kHz	400 kHz	400 kHz	200 kHz*	100 kHz**
6 MHz TV Channel Capacity	15	15	15	30	60
Latency	6ms	3.5ms	6ms	6ms	18ms
Compatibility with a 200 Series Receiver	2 Transmitters	2 Transmitters	2 Transmitters	2 Transmitters	1 Transmitter
Compatibility with a 300-96 Receiver	NO	NO	NO	1 Transmitter	1 Transmitter
Compatibility with a 300-48 Receiver	NO	NO	NO	NO	1 Transmitter

* When used with a QRX300-96 receiver – the minimum spacing is 300 kHz when using all other receivers.

**When used with a QRX300-48 receiver – the minimum spacing is 200 kHz when using all other receivers.

Single / Dual Mode Select

RX MODE:
SINGLE

- **SINGLE** - This configures the QRX to operate as a single receiver. In single mode the QRX can receive one audio channel from one transmitter.
- **DUAL** - This configures the QRX to operate as two independent receivers. In dual mode the QRX can receive audio from two transmitters.

AES Output Enable

AES - 1 2: ON
AES - 3 4: OFF

This menu enables the TA5 connectors to output an AES signal.

- **ON** - Indicates that the TA5 will output AES audio.
- **OFF** - Indicates that the TA5 will output analog audio.

Output Assignment

This menu is only available when the QRX is set to dual receive mode.

OUTPUTS:
NORMAL

This menu sets what audio is outputted from each TA5 connector when the QRX is set to dual mode receiving mono transmitters.

- **SPLIT / NORMAL** - The signal from each transmitter will be outputted on individual TA5 connectors. Transmitter 1 will be outputted on TA5 1 and transmitter 2 will be outputted on TA5 2.
- **COMBINED / SWAP** - The signal from each transmitter will be combined on a single TA5 connector.

Transmitter Remote Control Enable

TX REMOTE CTRL:
OFF

Transmitter remote control turns on the ability to remote control the corresponding transmitter when connected to a QRX235, via the serial loop. When connected and enabled QRX200 will have the ability to remotely change the gain, UHF frequency and power level of the corresponding transmitter in addition to changing the transport status of the onboard recorder. Please note that the QRX235 will need to have a QRX option board installed.

Serial Port Assign

SERIAL PORT
ZAXLAN QRX

This menu sets the function of the serial port on the QRX.

- **OFF** - No commands will be communicated to the serial port.
- **ZAXLAN QRX** - The QRX will communicate commands to a QRX235, with QIFB, via the serial port.
- **BLUE TOOTH** - This setting allows a QRX235 with QIFB will interface to communicate with a ZaxMote blue tooth dongle via the serial port.

Output Routing

This menu is only available when the QRX is set to single receive mode.

**OUTPUT ROUTING:
C1 = L C2 = R**

← The left output will be on TA5 connector 1 and the right output will be on TA5 connector 2

**OUTPUT ROUTING:
C1 = L R**

← Both the LEFT and RIGHT outputs will be on both TA5 connector 1 and TA5 connector 2

This menu sets the output assignments of the TA5 connectors when the QRX is set to single mode and is receiving a signal from a stereo transmitter.

QRX Software Update

**PRESS ↑ TO
UPDATE SOFTWARE**

The software update menu is where a firmware update for the QRX is initiated from. After the INC key is pressed the QRX will wait for firmware to be sent from a TRX transmitter. When the QRX receives the firmware the update process will automatically begin. Please note the QRX needs to be set to mono modulation and in single mode to update the firmware. Please see the firmware section in the back of this manual for additional information on updating the QRX.

AES Recognize

**SONY F5 AES
OFF (NORMAL AES)**

The AES recognize is used for some Sony F5 or F55 cameras that cannot recognize the AES signal from the QRX.

- **OFF** - The QRX will output a normal AES signal.
- **ON: AB KEY** - This setting will send a special signal to the AES out, when the A/B key is pressed. This will allow the Sony camera to recognize and lock to the AES signal from the QRX. This is the recommended setting.
- **ON: ALWAYS** - The QRX will constantly send a special recognize signal via the AES out.

AES Output Sample Rate Adjust

**AES OUTPUT RATE
NORMAL**

This menu adjusts the AES output sample rate.

- **Normal** - This is the recommended setting.
- **96K** - The QRX will output a 96 kHz AES signal for some mixers like the Yamaha 01V that cannot properly sample rate convert the AES signal.

LED Brightness Set

LED DIMMER:
OFF

This menu sets the brightness level of the side mount LED's.

- **OFF** - The LEDs do not illuminate.
- **NUMERIC VALUE** - Adjustable brightness levels.
- **BRIGHT** - The LED's will illuminate at the brightest setting.

Blue LED Set

LED METER MODE:
OFF

This menu sets the action of the bottom LED in each group (total of 4 groups).

The side mount LEDs were designed to give visual confirmation that audio is being received at the QRX. This menu gives the option to display that a valid RF signal is getting to the QRX even if no audio is being sent.

- **OFF** - The bottom LED will only display the audio modulation and the blue LED is disabled.
- **BLUE FULL TIME** - Turns the bottom LED blue for each channel that is receiving a valid RF signal. When the audio has gotten to the point of displaying a level for that channel, the bottom LED will continue to show blue but with a tint of the appropriate modulation color of that channel's LEDs.
- **BLUE PART TIME** - Turns the bottom LED blue for each channel that is receiving a valid RF signal. Once the audio is received, the blue is replaced with the appropriate modulation color for that channel.

Encryption Code Set

ID1: 000 ID0: 000
↑

The encryption menu is where the encryption is turned on and the code is set. The encryption code needs to match the encryption code of the associated transmitters. If an encryption code is set on the transmitter the transmitted audio will be encrypted and can only be listened to if the QRX has the same matching encryption code entered. When the codes do not match, all that will be heard is white-noise.

These two sets of numbers are formed into a single six-digit encryption code which provides a total of 16,777,216 possible combinations. For non-encrypted operations all six numbers should be set to 0.

Adjusting the encryption code

1. Press the A/B key to advance to the next character.
2. To change the designated character, press the INC or DEC key.
3. To exit this page, press and hold the MENU key.

Frequency Presets

CHANNEL PRESETS
PRESET 1: 543.0

The QRX has 16 user assignable frequency presets.

Access and navigating the channel preset menu:

- From the home screen press and hold the DEC key for 1.5 seconds which will access the extended menu, then press the DEC one more time to access the channel preset menu.
- When in the channel preset menu pressing the MENU key will cycle through the 16 presets (0 through 15).
- To adjust each preset frequencies press the INC and DEC key.
- To advance to the next preset press the MENU key.
- To exit the preset menus briefly tap the PWR key.

Selecting preset frequencies:

- From the frequency adjust menu press and hold the DEC key until the QRX frequency reaches the minimum frequency of 512.0MHz. Then continue to press the DEC key to access the 16 preset frequencies.
- Pressing the INC and DEC keys will cycle through the 16 preset frequencies.

Firmware

Each unit is shipped with the latest firmware version installed.

Each time a unit is powered up, the firmware version number is displayed briefly on the screen.

As newer firmware becomes available, it can be downloaded from the Zaxcom website:

<http://www.zaxcom.com/software-updates>

Updating the QRX firmware using a transmitter

1. Format a micro SD card in a transmitter.
2. With a computer take the formatted card and perform the following:
 - Delete the "SNXXXX.ME" file from the card.
 - Download the new QRX firmware and load it into the card. (QR2-XXX.BIN)
3. Insert the card and a fresh set of batteries into the transmitter.
4. At the QRX:
 - Verify the QRX is set to single mode and modulation is set to mono.
 - Verify encryption is off (ID1 and ID0 are both set to 000)
 - Set the UHF Frequency to the same frequency as the programming transmitter.
 - The QRX receiver status LEDs should both be green.
 - From the extended menu go to the firmware update page and press the INC key.
 - The screen will display waiting for program. This indicates the receiver is ready to download the new firmware. This can be done to several QRXs so they will be updated at the same time.
5. At the transmitter proceed to the setup menu choose to the firmware update menu (see transmitter manual) and press the INC key.
6. Each QRX should indicate it is receiving the program.
7. After the firmware send cycle, all of the receivers should be re-programmed and "SUCCESS . . . REBOOT NOW" will be displayed. If there was a reception error, the affected receiver will automatically restart the process with the start of the next send cycle.
8. Reboot the QRX and verify the QRX is running the new firmware version.

WARNING: After the QRX has received its entire program, it will erase and burn its firmware into the ROM. During this process, which only takes a few seconds, you **MUST NOT** turn 'OFF' the QRX. If the program is never fully received, it is safe to cycle the power.

Wiring Diagrams

Audio Output Connectors

There are two TA-5M connectors on the back panel. How they are used varies based on the output configuration in the extended menu.

Single Analog Channel out of one TA5

TA5 out on QRX		XLR into Camera or Mixer
PIN 1	→	PIN 1
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 QRX		XLR into Camera or 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

The TA-5 connectors can also be used to output AES digital audio. Each TA5 will output a stereo pair on pins 1, 2 and 3 with pin 1 being ground.

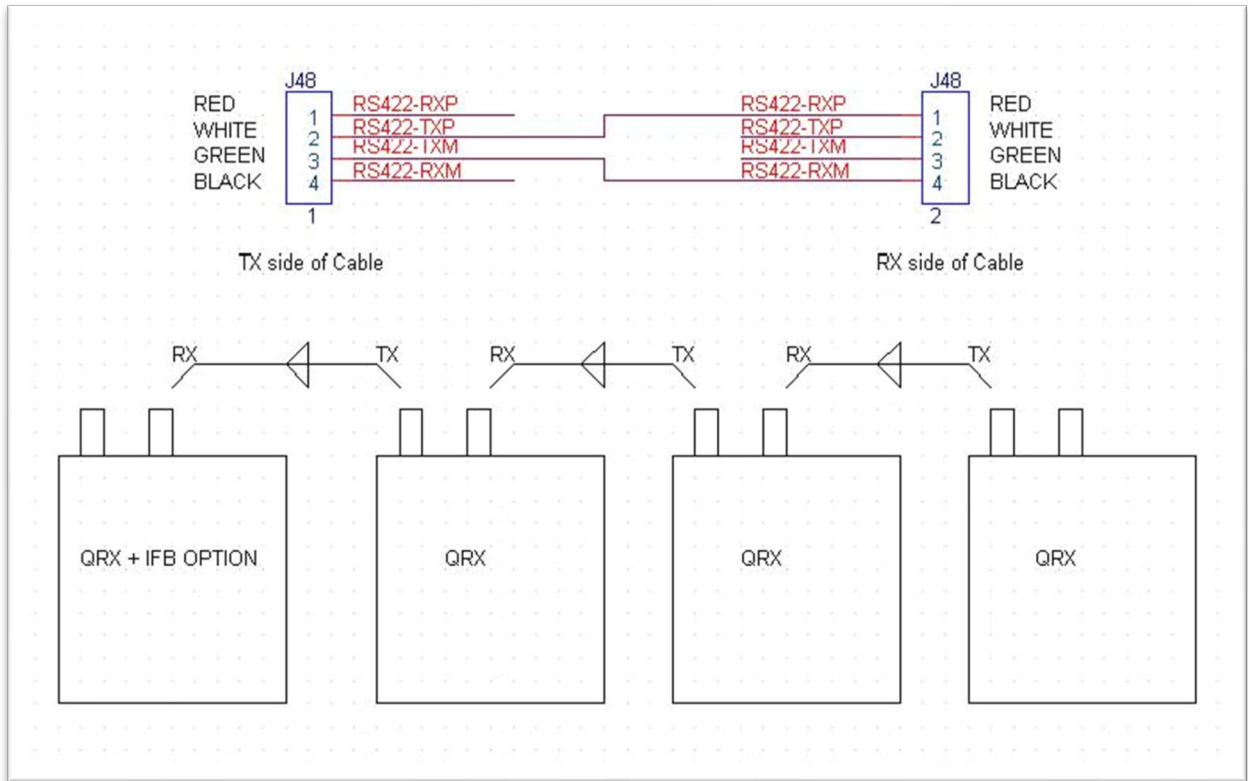
When receiving audio from a mono transmitter the QRX will output the same audio on both pairs of the TA5. When receiving audio from a stereo transmitter the QRX can output both signals on a single TA5.

IMPORTANT: While sending digital audio, 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 QRX		XLR into Camera or Mixer
PIN 1	→	PIN 1
PIN 2	→	PIN 2
PIN 3	→	PIN 3
PIN 4		No Connection
PIN 5		No Connection

Serial Loop Connector - USB (RS-485)

The serial connectors allow for communication between several QRXs. This allows QRXs that do not have the IFB option to connect to a single QRX that does have the IFB option.

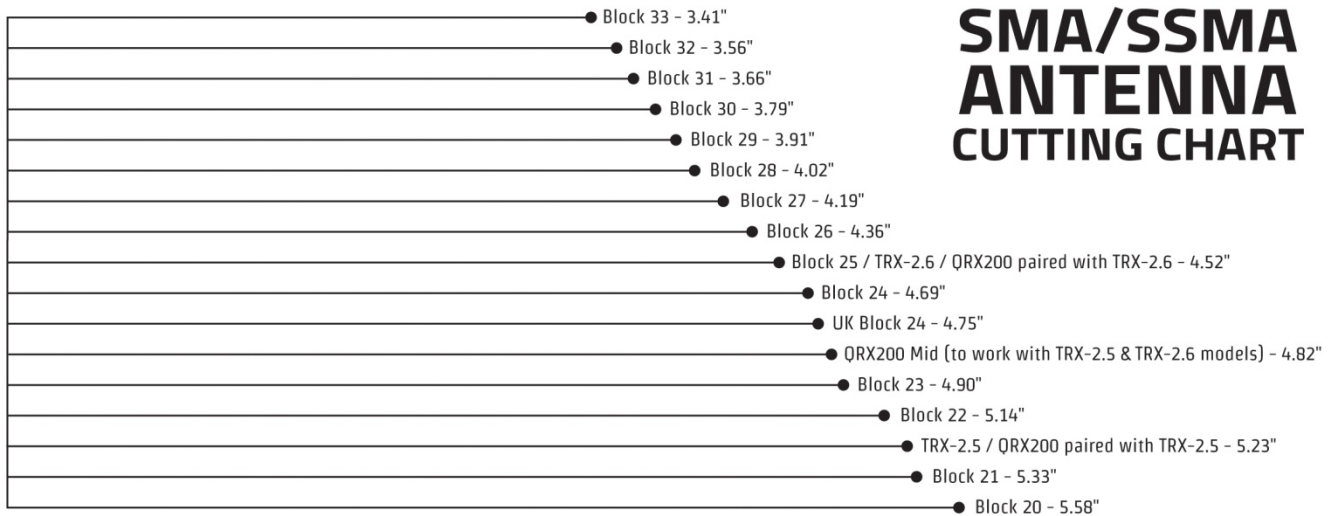


Operating Frequencies

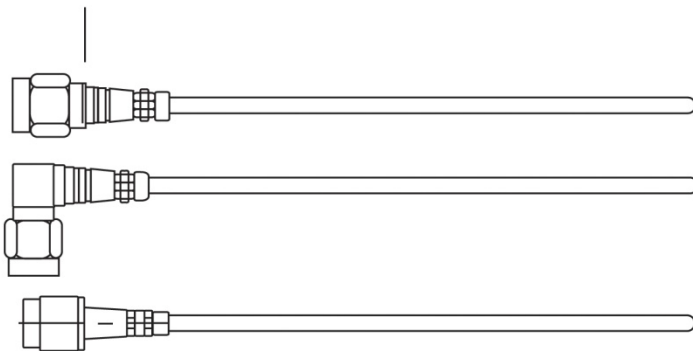
UHF - Audio

512.0 MHz to 698.0 MHz (Blocks 20 through 26)

Antenna Cutting Chart



SMA/SSMA ANTENNA CUTTING CHART



ZAXCOM

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Specifications

Receiver

RF Modulation:	Proprietary digital method
RF Frequency Range:	512.0 to 698.0 MHz
RF Frequency Step:	100 KHz
Channel Separation:	500 KHz (700 KHz recommended)
Sensitivity:	-110 dBm
Antenna Connector:	50-ohm SMA female

Receiver Audio - Analog Outputs

Channels:	Up to 4
Audio Level:	Line Level 0 dBu active balanced
Dynamic Range:	114 dB
Distortion:	0.001%
DAC Bit-depth:	24 bit
Connector (x 2):	TA-5M

Receiver Audio - Digital Outputs

Channels:	Up to 4
AES Reference:	Wordclock and AES reference
Connector:	TA-5M

Serial Control

Protocol:	RS-422, RS-485
Connector (x 2):	USB

Physical

Weight:	6.0 oz. (170 grams)
Dimensions (H x W x D):	1.25" x 3.25" x 5.25" (32mm x 83mm x 133mm)
External Power:	9 to 18 VDC (270 mA @ 12 VDC – no side LEDs, 390 mA – w/ LEDs illuminated)
Internal Power:	N/A
Display:	OLED panel

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 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 QRX ("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.

Zaxcom Digital Wireless are protected under following patent #'s:

7,711,443/7,929,902/D608,339/8,835,814 B2/ 9,336,307/10,276,207/10,901,680/D608,339/11,610,605

For a full list of patent information, please visit: <https://zaxcom.com/company/patents/>

Declaration of Conformity

ZAXCOM, INC.
230 West Parkway, Unit 9
Pompton Plains, NJ 07444
September 1, 2019

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

QRX200, QRX235, QRX212, MRX214, RX-12, RX-12R, RX200 and URX100 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.



Glenn Sanders
President
Zaxcom, Inc.

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.