

User Manual  
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Firmware Version URX-053



ZAXCOM.COM

URX100

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## Front



- 1. Volume Up and Down keys**
- 2. Channel Up and Down keys**
  - When in the home or lock screen press to cycle through channel presets.
  - When in the sub menu press to cycle through the menus.
  - When in a menu press the keys to change the menu parameters.
- 3. Power / Time Code key**
  - Press and hold for 2 seconds to power up the URX100.
  - Press and hold for 4 seconds to power down the URX100 - then press the MENU key
  - Press three times quickly to enter or exit the menu groups.
  - From the home or lock screen press to display the time code and user bits.
- 4. Menu key**
  - Press to cycle to the next menu item.

Top



1. **SMA Antenna Connection**
2. **OLED Display**
3. **3.5mm Headphone Jack / URXL1 connector**

Please note that this jack acts as the second antenna for diversity reception.

For optimal performance when a headphone, or the URXL1 lanyard, is not being used it is recommended that a 3.5mm connector with a piece of wire (approximately 5 inches long) connected to the shield is inserted to act as a second antenna.

## Rear

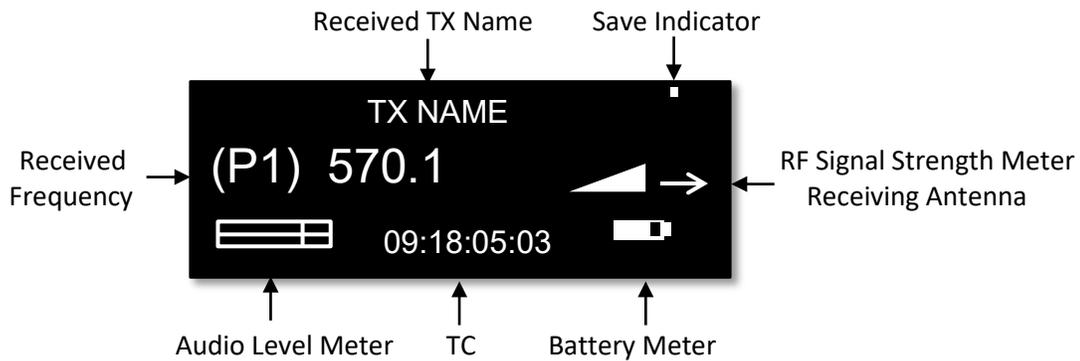


- 1. Battery Compartment** - The URX100 uses 3 AA batteries and will work with alkaline, NiMH or lithium AA batteries.



- 2. URXL1 Walkie Talkie Lanyard (Optional)**-The URX100 can be connected to the remote speaker/mic port of a walkie talkie. Allowing the user to route the walkie talkie audio left right or center and mix it with the URX100 audio so both the walkie and URX100 audio can be heard at the same time with a single pair of headphones.  
The URXL1 Lanyard has a push-to-talk button and a microphone to communicate with the walkie talkie. Any headphone with a 3.5mm jack can be plugged into the URXL1.

# Home Screen



## Received Transmitter Name

This is the name of the transmitter being received by the URX100.

## Save Indicator

The save indicator will briefly flash when after a setting change as a parameter is being written to the memory of the URX100. .

## Received Frequency

This is the preset position number and the UHF frequency that the URX100 is receiving.

## RF Signal Strength

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

## Receiving Antenna

This shows the antenna that is receiving the RF signal.

## Audio Level

Displays the incoming audio level, the meter extends from the left to the right. The vertical bar is the -20dBFS mark and the far right side of the box is 0dBFS.

## Time Code

This is the time code of the transmitter that the URX100 is receiving.

## Battery Level

The battery diagram displays a rough indication of the transmitter's battery level. For a more accurate battery reading 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.

## 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.

### Frequency Select



The frequency select menu is where the URX100 receive frequency is set. This frequency needs to match the frequency that is set on the corresponding transmitter. To adjust the frequency press the channel up key to increase the frequency and press the channel down key to decrease the frequency. Also displayed is the modulation format, the name of the transmitter being received, a signal strength meter and audio meter and an arrow showing which antenna the signal is being received on.

### Walkie In Gain



The walkie in gain menu is where the level of the optional lanyard microphone input from to the URX100 is set. The higher the level is set the more gain the microphone will have.

### Lock Screen



The lock screen is landed on a 5 second countdown clock will start. After 5 seconds elapse the URX100 will lock and the menus cannot be accessed. This is to prevent the parameters from accidentally be changed.

When the URX100 is locked the volume adjust keys, the channel preset keys and the time code display key can still be used.

To exit the lock screen hold the MENU key and press the CH UP key 4 times.

## Sub Menus

### Menu groups

The URX100 has five sub menu groups

- **Channel Preset** - Sets the number of preset channels, and sets the frequency of each preset channel.
- **Scan** - Is where the URX100 can scan the set RF spectrum.
- **Routing** - Sets the routing of the received audio and the walkie feed to the desired headphone side.
- **Time Code** - Changes the time code parameters of URX100.
- **Setup** - Changes the parameters of the general operation on the URX100.

### Accessing and navigating the menu groups

From in the main menu press the POWER / TC key three times quickly to access the six menu groups. Then pressing the CH UP or CH DOWN key will cycle between the menu items.

### Entering and navigating a sub menu

When landing on the desired menu group press the MENU key to enter that menu. Pressing the MENU key again will cycle through the menu items.

To return to the top of the menu press the MENU key to cycle to the top or press and hold the MENU key for 1.5 seconds.

### Exiting the extended menu

To exit the menus press the POWER / TC key 3 times quickly to return to the main menu.

## CHANNEL PRESET MENU

### Number of Presets

**NUMBER OF  
PRESETS: 100**

From this menu the number of presets that the URX100 will display can be selected. The URX100 can display up to 100 presets.

### Preset Adjust

**PRESET 2: 524.3  
TX NAME (ON)**

From this menu each preset frequency can be adjusted by pressing the CH UP and CH DOWN keys. If the frequency has a corresponding transmitter that is on the name of the transmitter will be displayed. Each preset can be toggled on and off by pressing the POWER/TC key. When the preset is ON the user will be able to cycle to that preset and listen to it, if the preset is OFF the user will not be able access that preset. After the frequency is set press the MENU key to advance to the next preset. Please note the number of available frequencies will be determined by the number of presets that was set in the previous menu.

## SCAN MENU

### Frequency Scan

**PRESS ↑ TO SCAN**  
(ALL 200: 512 – 698)

The frequency scan menu is where the URX100 can scan the user specified frequency range and search for a clear frequencies. The frequency range will be displayed on the bottom half of the display. After the scan is completed a graphic display of the RF that is present in that specified range will be shown and the URX100 will also suggest a clear frequency. That frequency can be accepted by pressing the CH UP key. Or press the CH DOWN key to skip the first chosen frequency and have the URX100 suggest another frequency.

#### Scanning for a frequency

- Turn off the transmitter(s).
- From the scan menu press the CH UP key to initiate a scan.
- While the URX100 is scanning, the frequency being examined is displayed in the bottom half of the screen. Once the scan has completed a graphic map of the scan will be displayed. The low end of the frequency range is on the left side and the high end is on the right. Wherever RF is found, a vertical line will be drawn. The line extends from the baseline up. The length of the line indicates the level or strength of the found RF at that frequency.



#### Selecting the frequency

When the scan is complete the URX100 will draw a vertical blinking line on the display to indicate where the first suggested frequency is, and the frequency in MHz will appear below the scan graphic.

- Press the CH UP key to accept the new frequency.
- Press the CH DOWN key to decline and suggest a different frequency.



## Setting the Scan Range

**SCAN LIMIT:  
ALL 200 512 - 698**

The scan range menu sets the frequency range that the URX100 will scan when doing a frequency scan. Pressing the CH UP and CH DOWN keys will cycle through the scanning options.

### Available Scan Ranges

- **All 200** - All frequencies from 512.0MHz through 698.0MHz will be scanned..
- **LO 100** - Corresponds to the frequency range of 3.5 transmitters, when selected the RX200 will scan all frequencies from 512.0MHz through 614.0MHz.
- **HI 100** - Corresponds to the frequency range of 3.6 transmitters, when selected the RX200 will scan all frequencies from 596.0 through 698.0MHz.
- **BLK (20 -26)** - Allows the RX200 to scan a specific block (Blocks 20-26).
  - Block 20 - 518-542 MHz
  - Block 21 - 536-572 MHz
  - Block 22 - 560-590 MHz
  - Block 23 - 590-614MHz (block 23 needs to be enabled)
  - Block 24 - 614-644 MHz
  - Block 25 - 638-668 MHz
  - Block 26 - 662-698 MHz

## ROUTING MENU

### Walkie Routing

A black rectangular display with white text. The text reads "WALKIE ROUTED" on the first line and "TO HP-BOTH" on the second line. To the right of the second line is a small icon consisting of three horizontal bars of varying lengths, resembling a menu or list icon.

**WALKIE ROUTED  
TO HP-BOTH**

From the walkie routing menu the walkie receive audio can be routed to the desired headphone side. The walkie audio can be routed to both sides of the headphones, the left side only, the right side only, or it can be disabled.

### Receive Audio Left Routing

A black rectangular display with white text. The text reads "RX LEFT ROUTED" on the first line and "TO HP-LEFT" on the second line. To the right of the second line is a small icon consisting of three horizontal bars of varying lengths, resembling a menu or list icon.

**RX LEFT ROUTED  
TO HP-LEFT**

From the RX left routing menu the left received audio can be routed to the desired headphone side. The audio can be routed to both sides of the headphones, the left side only, the right side only, or it can be disabled.

### Receive Audio Right Routing

A black rectangular display with white text. The text reads "RX RIGHT ROUTED" on the first line and "TO HP-RIGHT" on the second line. To the right of the second line is a small icon consisting of three horizontal bars of varying lengths, resembling a menu or list icon.

**RX RIGHT ROUTED  
TO HP-RIGHT**

From the RX right routing menu the right received audio can be routed to the desired headphone side. The audio can be routed to both sides of the headphones, the left side only, the right side only, or it can be disabled.

## TIME CODE MENU

### Mute Time Code Until Jammed

**MUTE TC UNTIL  
JAMMED: ON**

If mute time code is set to on, the time code out of the TA5 is muted and the URX100 will not output any time code until it receives and locks to the time code that is being sent from the transmitter. This is to prevent incorrect time code being outputted.

### Time Code Output Level

**TC OUTPUT LEVEL:  
1.000 VOLTS**

The URX100's time code output can be adjusted for equipment that needs a specific time code voltage. The URX100 can output time code from 0.001 to 3.000 Volts.

## SETUP MENU

### Tone Output



The tone menu allows the URX100 to output tone. This is useful to set levels and check routing. Pressing the CH UP and CH DOWN keys will cycle through and output the different tone settings.

- **OFF** - No tone is being outputted.
- **-20dBFS** - Tone is outputted at -20dBFS.
- **+0dBFS** - Tone is outputted at full scale 0dBFS.

### Modulation Select



The modulation menu is where the receive format is set. Modulation is simply the way a transmitter “modulates”, or sends, its signal to the URX100. This setting needs to match the modulation mode that the corresponding transmitter is set to - if the two settings do not match the URX100 will not be able to receive and decode the signal from the transmitter.

#### Modulation types

- **STEREO** - Select when receiving audio from a Camera Link, Maxx transmitter, or a stereo transmitter.
- **ZHD 96** - Select when receiving signal from a ZHD transmitter set to ZHD-96.
- **XR MONO** - Select when using extended range modulation (XR).
- **MONO** - Select when using a mono transmitter and XR modulation is not available in the software.
- **EU** - Select when using a transmitter that is set up for European broadcast standards.

### Mute If Unit Code



This menu sets if transmitters with certain ZaxNet unit codes will not be able to be monitored by the URX100. For example if this menu is set to 30 any transmitter with a ZaxNet unit code below 30 will not be able to be monitored by the URX100.

If a muted preset is selected to be monitored “MUTE” will appear on the display and that preset will not be able to be listened to - even if that preset is enabled.

## Software Update

**PRESS → TO  
UPDATE SOFTWARE**

This menu is where the URX software is updated from.

When in this menu pressing the CH UP key will initiate the update process and the URX100 will wait and search for software that will be transmitted from a Zaxcom transmitter (*please refer to the software update section of this manual for more information on how to update the URX100.*)

## IFB voting

**IFB VOTING: ON  
200KHZ OFFSET**

The IFB voting feature will allow the URX100 to automatically switch to a secondary frequency when it loses its signal from the primary transmitter. One purpose of this is, on a large set, a second transmitter can be placed at a distant location, so if the URX100 loses the signal from one transmitter it will automatically switch to the other transmitter.

To use IFB voting just set the offset in this menu to (200 KHz, 300 KHz, 400 KHz or 500 KHz). Then set the second transmitters frequency to the primary frequency + the offset. So for example if the primary frequency is 560.000 MHz and the offset is 200 KHz then the second transmitter should be set to 560.200 MHz

## Audio Delay Set

**AUDIO DELAY:  
OFF**

The audio delay menu sets a variable delay to the output audio. A delay is useful if the ERX is being used for personal monitoring and there is a video processing delay to the monitors - so engaging the delay will delay the audio to match the video. The audio delay can be adjusted from 1MS to 400MS in 1MS increments.

## Display Flip

**DISPLAY FLIP:  
OFF**

The display flip menu changes the orientation of the display for when the unit will be inverted.

## OLED Brightness

**OLED BRIGHTNESS:  
3**

The OLED brightness menu adjusts the brightness of the OLED display. The brightness can be adjusted from 0 to 3 with 0 being the dimmest setting and 3 being the brightest.

## Information Page

```
--- INFO ---  
FIRMWARE 0-53  
SN: 1234  
URX-100
```

This page displays the current firmware version and the serial number of the URX100.

## Hide Encryption Menu

```
ENCRYPTION MENU:  
HIDDEN
```

This menu allows for the encryption menu to be hidden preventing accidental changes.

- **HIDDEN** - The encryption menu does not appear when cycling through the menu settings.
- **SHOW** - The encryption menu will appear.

## Encryption Code Set

```
ID1: 000 ID0: 000  
↑  
ENCRYPTION CODE
```

This menu is where the encryption is turned on and the code is set. This code needs to match the encryption code of the associated transmitter(s). If an encryption code is set on the transmitter the transmitted audio will be encrypted and can only be listened to if the URX100 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 menu key to cycle to the next character.
2. To change the designated character, press the CH UP or CH DOWN key.
3. To exit this page, press and hold the MENU key.

## Wiring Configuration

### TA5 Connector

Pin

- 1 - Ground
- 2 - Audio in from walkie receiver
- 3 - Time Code out and AUX PTT (open collector)
- 4 - Microphone audio out to walkie with PTT bias control
- 5 - IFB audio out (Hard-wired to headphone left feed)

### Headphone Out

The headphone out is a 3.5mm TRRS connector. The URXL1 walkie lanyard uses all 4 connectors, but any standard headphone can be used to listen to audio.

Please note that when a headphone, or the optional URXL1 Lanyard, is being used its wire becomes the second antenna for the URX100 giving it diversity reception. It is recommended that when no headphone, or lanyard, is connected to the 3.5mm jack a 3.5mm plug with a short piece of cable (approximately 5 inches long - wired only to the shield) should be connected for better reception.

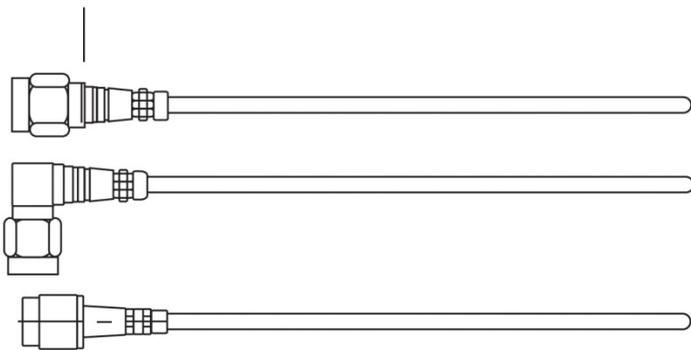
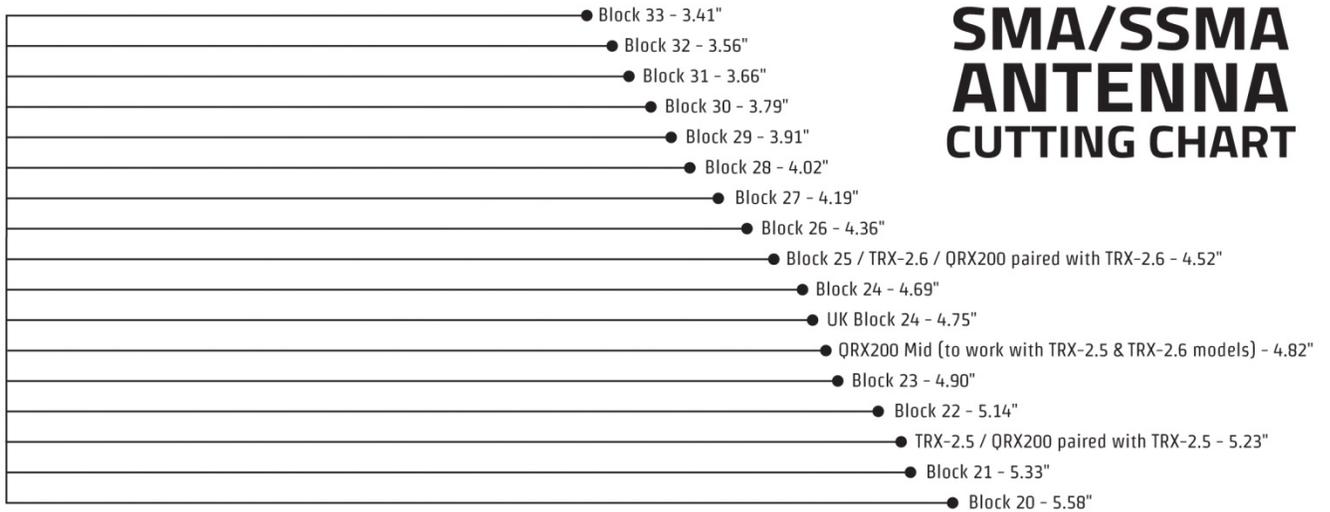
## Operating Frequencies

### UHF Audio

512.0 MHz to 698.0 MHz (Blocks 20 through 26)

# Antenna Cutting Chart

## SMA/SSMA ANTENNA CUTTING CHART



**ZAXCOM**

[www.zaxcom.com](http://www.zaxcom.com)



## Firmware

### Updating the URX100 firmware using a Zaxcom transmitter

1. Format a micro SD card in the programming transmitter.
2. With a computer take the formatted card and perform the following:
  - Delete the “DELETE.ME” file from the card.
  - Download the new URX100 firmware from the Zaxcom website and load it into the card (URX-XXX.BIN).  
<https://zaxcom.com/support/updates/>
3. At the URX100 (please note multiple URX100’s can updated at a time):
  - Verify that the batteries in each URX100 has sufficient battery power.
  - Verify the modulation mode 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.
  - Proceed to the software update page in the setup menu and press the CH UP key.
  - “WAITING FOR PROGRAM” will be displayed - this indicates that the URX100 is ready to receive the new software.
  - Place the URX100 within 10’ and line-of-sight of the programming transmitter. All of the units should remain motionless to insure they receive a strong and undisturbed signal.
4. At the programming transmitter:
  - Insert the card with the BIN file.
  - Verify that transmitter has sufficient battery power.
  - Verify the modulation mode 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 URX100 is set to.
  - Start the software transmission. *Please Refer to the specific transmitter manual for instructions on how to transmit the software to the receiver (QRX / RX200)*
  - The transmitter will indicate that it found the program on the card and that it has started sending it. Please note the transmit process will cycle over and over until manually stopped.
5. Each URX100 should indicate it is receiving the software.
6. The programming transmitter will automatically resend the software until it is manually stopped. So f there is a reception error, the URX100 will automatically restart the update process with the start of the next cycle.
7. When the URX100 is done updating the software “SUCCESS . . . PRESS TC TO REBOOT” will be displayed.  
**Please note that it is very important that the URX100 is not powered down before this is displayed.**
8. It is now safe to stop the firmware transmission.
9. At each URX100 press the POWER / TC key and verify that the URX100 is running the new software.

**WARNING:** After the URX100 has received its entire program, it will erase and burn its firmware into its ROM. During this process, which will take about a minute, **DO NOT** turn off the URX100. When “**SUCCESS . . . PRESS TC TO REBOOT NOW**” is displayed it is safe to reboot the URX100. If the program is never fully received, it is safe to cycle the power.

*Please note the following transmitters can update the URX100:*

- ZHD transmitter running firmware version THD-275A or THD-286 or higher.
- TRXCL3 Camera Link running firmware version CL-286 or higher.
- ZMT transmitter running version firmware version ZMT-285 or higher.

# Specifications

## Receiver

Receiver RF Channels: 1  
Diversity method: antenna switching  
RF Modulation: proprietary digital method  
RF Frequency Range: 512 to 698 MHz  
RF Frequency Step: 100 KHz  
RF Signal Bandwidth: 200 KHz  
Channel Separation: 500 KHz (700 KHz recommended)  
Sensitivity: -114 dBm  
Antenna Connector: 50-ohm SMA female

## Receiver Audio

Analog Output  
Dynamic Range: 110 dB  
Distortion: 0.002%  
Frequency Range: 20Hz to 16 kHz  
DAC Bit-depth: 24 bits  
Connector: TA-5M

## Audio Output

Impedance: 16 ohms  
Output Power: 100 mW  
Output Type: Headphone driver  
Output connector: 3.5 mm  
Mode: 2-Channel unbalanced or 1-Channel balanced  
Max Output Level: +12 dBm

## Timecode

Timecode output connector: TA5 Male  
Timecode output level: .01VPP – 3VPP Variable  
Time code output rate: 23.98, 24, 25, 29.97 NDF, 29.97 DF, 30

## TA5 Auxiliary Connector

Timecode output, Left audio out, Walkie Microphone out, Walkie Audio return

## Power

Internal Power: 3 AA Batteries  
Li-Ion Battery Life: Up to 11 hours  
NiMH Battery Life: Up to 9 hours  
Alkaline Battery life: Up to 7 hours  
\*these times are approximate and will be refined as more testing is done\*

## Misc.

TA5 Auxiliary Connector  
Timecode output, Left audio out, Walkie Microphone out, Walkie Audio return  
Weight: 4.5 oz. without batteries  
Dimensions: 4.1" x 2.5" x .9"  
Display: Graphic 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 URX100 ("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.



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.*