



# Quick Start Guide

## UCR100 Compact Receiver



Fill in for your records:

Serial Number:

Purchase Date:

This guide is intended to assist with initial setup and operation of your Lectrosonics product.

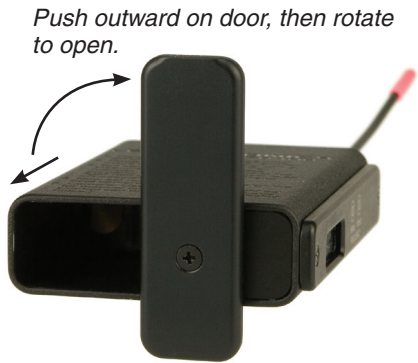
For a detailed user manual, download the most current version at:

[www.lectrosonics.com/manuals](http://www.lectrosonics.com/manuals)

# Battery Installation

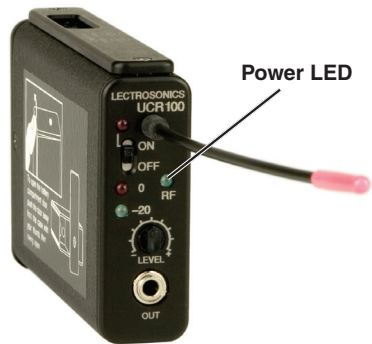


Use fresh alkaline or lithium 9 Volt batteries. In all cases, observe large and small battery contact openings inside the unit and orient the battery accordingly prior to inserting in the battery compartment.



*Push outward on door, then rotate to open.*

After installing the battery, turn the unit on and check to see that the Power LED is brightly lit.

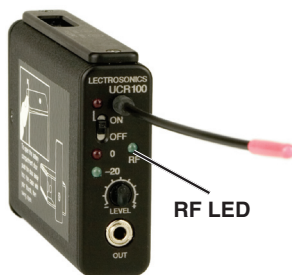


**Important Note:** Before using transmitters with the UCR100 Receiver, make sure they are set to 100 Series Compatibility Mode. Refer to your transmitter's Quick Start Guide for instructions on how to change compatibility modes.

# Selecting a Clear Frequency, Checking for Interference

Turn all transmitters OFF. Turn the UCR100 ON. Slide open the door to expose the frequency select switches. Set the 100 kHz switch to “8.” Rotate the 1.6 MHz switch to a position where the green RF LED on the front panel does NOT light up. Then, rotate the 100 kHz switch a few detents above and below where it was originally set while observing the RF LED. The idea is to find switch settings where the RF LED does not light up, which will be a clear operating frequency.

**NOTE: Video cameras often generate a significant amount of RF noise (interference).** Mount the UCR100 on the camera or in the position it will actually be used with the audio cable connected, and check the green RF LED again to see if interference is present. If the RF LED on the receiver remains lit when the transmitters are turned off, find new switch settings or re-position the receiver. The RF LED should extinguish when the associated transmitter is turned off.



## Frequency Switches



1.6MHz



100KHz



# Set Transmitter Frequency

Set the frequency selection switches on the side of the transmitter to match the switches on the receiver determined in Step 2. Ensure the transmitters are oriented so the word “Frequency” reads correctly to orient the left and right hand switches.

## Frequency Switches



1.6MHz  
(left)



100KHz  
(right)

**UH400A**



**LM**



# Set Camera or Mixer Audio Level Control to a Comfortable Midrange Position

**NOTE:** This step only applies to cameras and camcorders that offer manual audio level control during recording. If your camera or camcorder offers AGC (automatic gain control) only, skip this step and go to step 8.

Set the manual input level control on the camera or mixer to a point just above the middle of the control range (i.e. set it at “7” on a scale of 1 to 10).

# Adjusting UCR100 Output for Proper Record Level

## For cameras or mixers with manual level control

Attach a receiver output cable (see below) between the UCR100 and the camera or mixer. Leave the camera or mixer audio level control in the same position as set in Step 7. While speaking into the transmitter microphone at the same level that will be used in the program, adjust the UCR100 output LEVEL control for the correct input level for the camera or mixer.

If a correct input level to the camera or mixer cannot be achieved using the UCR100 output LEVEL control, set the UCR100 output level as close as possible to the correct level, and then adjust the input control slightly on the camera or mixer. A peak in the audio signal should cause the -20 LED on the UH400A or LM transmitters to blink red and occasionally light the "0" LED on the UCR100 receiver. It should also show a "0 VU" indication on the camera or mixer.



## For cameras with AGC (automatic gain control) only

It is always better to set the audio record level manually if possible; however, if manual control is not offered on your camera, the wireless system can still be used, but the audio output of the UCR100 must be set by listening rather than using the LEDs. This will reduce the "breathing" effect on the audio caused by the AGC (automatic gain control).

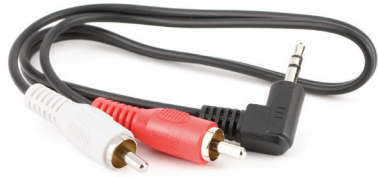
Have the talker pause for 5 or 6 seconds after speaking, and listen for a buildup of background noise during the pause. When the talker begins speaking again, the background noise will be buried by the talker's voice until the next pause in speech occurs. The noise buildup is caused by the AGC circuit in the camera trying to adjust for a constant level. It is not the fault of the wireless system. Manually adjust the UCR100 output level control to minimize the "breathing" effect (generally a lower setting).

## Walk Test / Voice Test

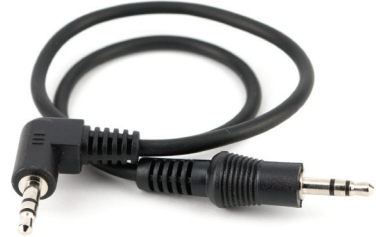
Always conduct a walk test before each use, since it is impossible to predict all potential sources of wireless problems. Turn on the camera, the wireless and any other electronics that will be used. Have the talker (with transmitter) walk through the areas while speaking where the wireless system will actually be used. Listen to the audio quality while the talker makes this walk test. If the facility (worship center, conference room, hotel, etc.) will also be using a wireless system while your system is operating, make sure that system is also turned on and operating during your walk test.

## Receiver Output Cables

**MC100RCA** - 3.5mm male TRS (stereo) plug to two male RCA plugs



**MC100TRS** - 3.5mm TRS (stereo) straight plug to 3.5mm TRS (stereo) right angle plug



**MC100XLR** - 3.5mm mono plug to male XLR unbal; pin 2 (+) with pins 1 and 3 jumpered; 100 ohm resistor



**MC55** - 3.5mm mono mini plug to XLR male; 15" long; converts unbalanced line level to balanced mic level; 45dB attenuator; built-in caps bypass phantom power



## LIMITED ONE YEAR WARRANTY

The equipment is warranted for one year from date of purchase against defects in materials or workmanship provided it was purchased from an authorized dealer. This warranty does not cover equipment which has been abused or damaged by careless handling or shipping. This warranty does not apply to used or demonstrator equipment.

Should any defect develop, Lectrosonics, Inc. will, at our option, repair or replace any defective parts without charge for either parts or labor. If Lectrosonics, Inc. cannot correct the defect in your equipment, it will be replaced at no charge with a similar new item. Lectrosonics, Inc. will pay for the cost of returning your equipment to you.

This warranty applies only to items returned to Lectrosonics, Inc. or an authorized dealer, shipping costs prepaid, within one year from the date of purchase.

This Limited Warranty is governed by the laws of the State of New Mexico. It states the entire liability of Lectrosonics Inc. and the entire remedy of the purchaser for any breach of warranty as outlined above. NEITHER LECTROSONICS, INC. NOR ANYONE INVOLVED IN THE PRODUCTION OR DELIVERY OF THE EQUIPMENT SHALL BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THIS EQUIPMENT EVEN IF LECTROSONICS, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE LIABILITY OF LECTROSONICS, INC. EXCEED THE PURCHASE PRICE OF ANY DEFECTIVE EQUIPMENT.

This warranty gives you specific legal rights. You may have additional legal rights which vary from state to state.



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