RM

Remote Control for SM Series Transmitters

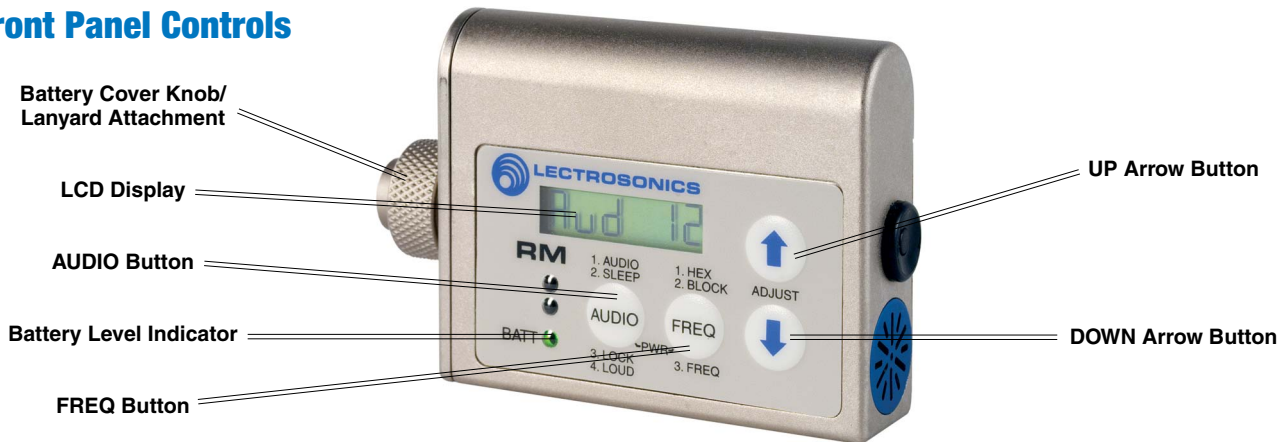**LECTROSONICS**®

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Operating Instructions

Front Panel Controls

Battery Cover Knob/
Lanyard Attachment

LCD Display

AUDIO Button

Battery Level Indicator

FREQ Button

UP Arrow Button

DOWN Arrow Button

The RM unit gives you remote control of SM Series Transmitters using an audible tone delivered to the microphone in the wireless system. Operating parameters on the wireless transmitter can be set by holding the speaker on the RM close to the microphone and pressing the pushbutton. A "dweedle" tone will play from the RM speaker into the microphone and the parameter on the transmitter will be set immediately. Adjustments can be made to set:

- Audio input gain
- Frequency
- Lock or Unlock Modes
- Sleep Mode ON/OFF

When the SM is in the power saving sleep mode, it uses one fifth the normal battery current. The math is straightforward: having the transmitter sleep for five hours is equivalent to using it normally for one hour.

Powering the RM on and off

To turn the RM on or off, press the AUDIO and FREQ buttons together briefly. The unit powers up on the page that was displayed when the unit was powered off last.

Principles of Operation

The RM user interface is organized into pages which are accessible via the AUDIO and FREQ buttons. Once on a page, settings can be adjusted with the UP and DOWN arrow buttons.

To change a transmitter's setting via the RM, it is necessary to dial in the new setting on the appropriate page on the RM, and then press the SEND button (on the side, near the speaker). The speaker should be uncovered and held within a few inches of the transmitter's microphone. (The longest usable range is about 6 feet, depending on the microphone and volume settings used.)

Only the specific function displayed is altered. For example, if the remote control is on the CH (channel) screen, pressing the send button will set the transmitter's channel but will not affect any other setting on the transmitter at that time.

RM Pages

The AUDIO button cycles through 4 pages:

1) Aud - set transmitter's audio level

2) SLEEP/unSLP - cause transmitter to sleep or wake up

3) Loc/unLoc - lock or unlock transmitter's buttons

4) Loud - adjust RM speaker volume (press SEND button for a sample tone)

The FREQ button cycles through 2 or 3 pages, depending on the settings:

1) CH - set transmitter's channel (using block-independent hex code)

2) b - select a block number (optional — uncovers next page)

3) 000.000 - set transmitter's frequency in MHz (avail. if a block is selected)

Speaker

SEND Button

When the SEND button is pressed, the selected RM setting is transmitted via the RM speaker to the microphone attached to the SM Transmitter.
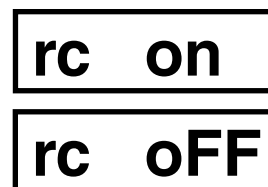
Operating Notes

- The SM's sensitivity to the remote control varies with the transmitter's audio level setting and the microphone used, but it's always possible to make it work, with a sufficiently loud remote signal at close range.

- If the SM is configured to respond to the remote control, it will do so even if the buttons are locked.

- When the SM is asleep, it can only be awakened by the remote control, or by removing and reinserting the battery.

- When the SM is asleep, the PWR led blinks green every few seconds.

- If a remote command is sent that would result in the same display being shown again on the SM (for example tuning to the channel already displayed), a row of dashes is displayed briefly, as a signal that the command was received, but it didn't change anything.

- If you are having trouble getting the SM to respond, make sure you aren't covering the RM's speaker with your thumb, and/or turn up the RM's speaker volume on the "Loud" page.

- If the RM is set to a different block number than the transmitter and an attempt is made to set the transmitter's frequency in MHz, the command will still work. The transmitter is simply set to the corresponding channel in the correct block, with a matching hex code.

- Since all SM transmitters respond to the same signals, take care that the remote control is presented only to the desired transmitter, with the minimum speaker volume necessary to do the job reliably.

RM Quick Reference

Power On/Off	AUDIO+FREQ
Set SM audio level	Aud page (via AUDIO)
Sleep or Wake SM	SLEEP/unSLP page (via AUDIO)
Lock or Unlock SM	Loc/unLoc page (via AUDIO)
Adjust RM volume	Loud page (via AUDIO)
Set SM channel (hex)	CH page (via FREQ)
Enable MHz display	b (block) page (via FREQ)
Set SM channel (MHz)	000.000 page (via FREQ)

The RM should be held close enough to the microphone to change the settings on the desired SM, but not be so loud as to affect other SM units nearby.

Configuring the SM for Remote Control Operation

The SM transmitter may be configured to respond to signals from the remote control or to ignore them. This setting is accessed by holding down the the Down arrow button while powering the transmitter on. Use the arrow keys to toggle between "rc on" (remote control on) and "rc oFF" (remote control off). The default setting is "rc on."

rc on

rc oFF

Remote Control Screens

If a remote control signal is detected but the transmitter is set to "rc oFF", the message "rc oFF" will be displayed briefly on the transmitter's LCD, to confirm that a valid signal was received, but that the transmitter is not configured to respond to it.

Functions available from the remote control are:

- Audio Level
- Frequency
- Lock/Unlock Buttons
- Sleep/Wake (power saving mode)

In sleep mode, the SM uses one fifth the normal amount of current. For example, in sleep mode it will drain the battery as much in five hours as it would do in one hour of normal operation. Sleep mode can only be invoked with the remote control, and can only be revoked with the remote control or by removing the battery. When in sleep mode, the PWR LED blinks green occasionally to indicate that the SM is asleep and not turned off.

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 liablility 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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