

SSM/E01**Micro Bodypack Transmitter****Quick Start Steps**

- 1) Install good batteries and turn power on.
- 2) Set the compatibility mode to match the receiver.
- 3) Connect the signal source and adjust input gain for optimum modulation level (see pages 9 and 10).
- 4) Set **Step Size** and frequency to match receiver. Also see receiver manual for scanning procedure to find a clear operating frequency.
- 5) Turn on the receiver and verify that solid RF and audio signals are present (see receiver manual).

WARNING: Moisture, including talent's sweat, will damage the transmitter. Wrap the SSM/E01 in a plastic baggie or other protection to avoid damage.



Fill in for your records:

Serial Number:

Purchase Date:



Rio Rancho, NM, USA
www.lectrosonics.com

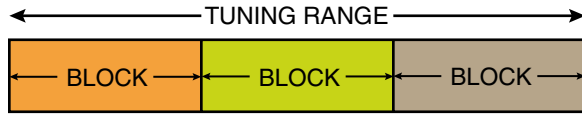
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Introduction

Three Block Tuning Range

The SSM transmitter tunes across a range of over 76 MHz. This tuning range covers three standard Lectrosonics frequency blocks.



Four tuning ranges are available covering standard blocks as follows:

Range	Blocks Covered	Freq. MHz
A1	470, 19, 20	470.1 - 537.5
B1	21, 22, 23	537.6 - 614.3
B2	22, 23, 24	563.2 - 639.9
C1	24, 25, 26	614.4 - 691.1
606*		606.0 - 631.5
D1**	27, 28, 29	691.2 - 767.9

*See Down Button Menu for more information

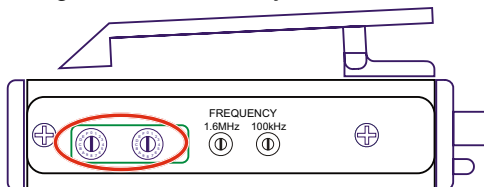
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To simplify backward compatibility with earlier Digital Hybrid Wireless® equipment, block numbers are presented along with frequencies in LCD screens.

About Frequency Blocks

A 25.6 MHz band of frequencies, referred to as a **Block**, came about with the design of the first frequency tunable Lectrosonics wireless products. These products provided two 16-position rotary switches to select frequencies as shown in the illustration below. A logical method of identifying the switch positions was using 16 character hexadecimal numbering. This naming and numbering convention is still used today.

The 16 switch positions are numbered **0** (zero) through **F**, presented in a two-character designation such as B8, 5C, AD, 74, etc. The first character indicates the position of the left hand switch and the second character indicates the position of the right hand switch. This designator is commonly called a “hex code.”



On older transmitter models, the left hand switch makes steps in 1.6 MHz increments, the right hand switch in 100 kHz increments.

Each block spans a 25.6 MHz band. A simple formula is used to name the blocks according to the lowest frequency in each one. For example, the block starting at 512 MHz is named Block 20, since 25.6 times 20 equals 512.

About Digital Hybrid Wireless®

US Patent 7,225,135

All wireless links suffer from channel noise to some degree, and all wireless microphone systems seek to minimize the impact of that noise on the desired signal. Conventional analog systems use companders for enhanced dynamic range, at the cost of subtle artifacts (known as “pumping” and “breathing”). Wholly digital systems defeat the noise by sending the audio information in digital form, however, it is often at the cost of one or more issues regarding power, bandwidth, operating range and resistance to interference.

The Lectrosonics Digital Hybrid Wireless system overcomes channel noise in a dramatically new way, digitally encoding the audio in the transmitter and decoding it in the receiver, yet still sending the encoded information via an analog FM wireless link. This proprietary algorithm is not a digital implementation of an analog compander but a technique which can be accomplished only in the digital domain.

Since the RF link between transmitter and receiver is FM, channel noise will increase gradually with increased operating range and weak signal conditions, however, the Digital Hybrid Wireless system handles this situation elegantly with rarely audible audio artifacts as the receiver approaches its squelch threshold.

In contrast, a purely digital system tends to drop the audio suddenly during brief dropouts and weak signal conditions. The Digital Hybrid Wireless system simply encodes the signal to use a noisy channel as efficiently and robustly as possible, yielding audio performance that rivals that of purely digital systems, without the power, noise and bandwidth problems inherent in digital transmission. Because it uses an analog FM link, Digital Hybrid Wireless enjoys all the benefits of conventional FM wireless systems, such as excellent range, efficient use of RF spectrum, and long battery life.

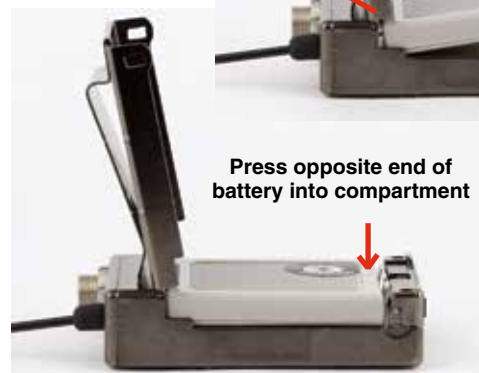
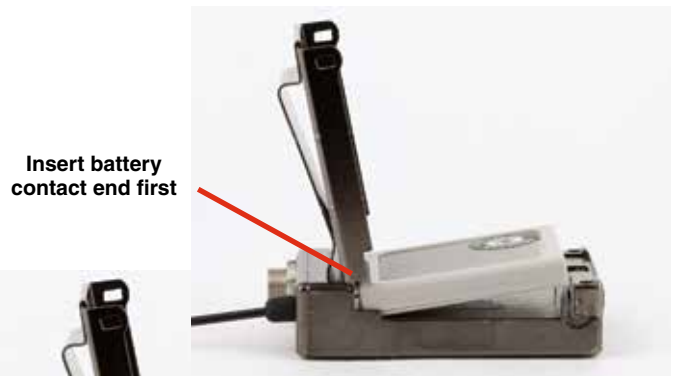
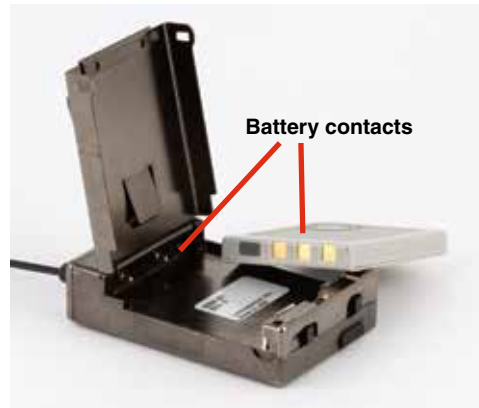
Battery

The transmitter operates from a 3.6 V rechargeable battery that will provide about four hours of operation per charge. Battery life can be monitored from the timer function built into current Lectrosonics receivers.



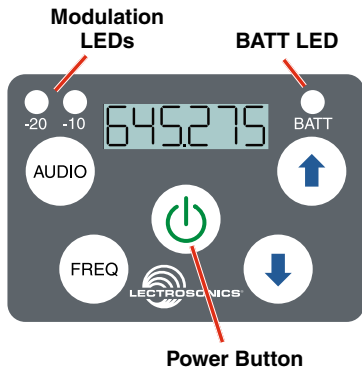
Battery Installation

The battery compartment and door catch are designed for simple and quick battery changes, yet prevent the door from being opened accidentally. Battery life can be monitored from the timer built into the latest Lectrosonics receiver.



If the battery is inserted incorrectly, the door will close but the unit will not operate.

Controls and Functions



Modulation LEDs

Proper input gain adjustment is critical to ensure the best audio quality. Two bicolor LEDs will glow either red or green to accurately indicate modulation levels. The input circuitry includes a wide range DSP controlled limiter to prevent distortion at high input levels.

It is important to set the gain (audio level) high enough to achieve full modulation during louder peaks in the audio. The limiter can handle over 30 dB of level above full modulation, so with an optimum setting, the LEDs will flash red during use. If the LEDs never flash red, the gain is too low. In the table below, +0 dB indicates full modulation.

Signal Level	-20 LED	-10 LED
Less than -20 dB	● Off	● Off
-20 dB to -10 dB	● Green	● Off
-10 dB to +0 dB	● Green	● Green
+0 dB to +10 dB	● Red	● Green
Greater than +10 db	● Red	● Red

LCD Screen

The LCD is a numeric-type Liquid Crystal Display with screens for adjusting output power, frequency, audio level, low frequency audio roll-off and various modes and options. The transmitter can be powered up with or without the RF output turned on. A brief press on the power button turns the unit on in a Standby Mode with the output turned off to allow adjustments to be made without interfering with other wireless systems in the vicinity.

BATT LED

This LED glows green when the battery is good. The color changes to red when there is only a few minutes of operation left. The LED will blink briefly, just before the unit powers down.

The exact point at which the LED turns red will vary with battery brand and condition, temperature and current drain. The LED is intended to simply catch your attention, not to be an exact indicator of remaining time.

AUDIO Button

The AUDIO button is used to adjust the audio output level and low frequency roll-off. Each press of the button will toggle between the two settings.

FREQ Button

The FREQ Button displays the selected operating frequency and toggles the LCD between displaying the actual operating frequency in MHz and a two-digit hexadecimal number that corresponds to the equivalent Lectrosonics Frequency Switch Setting.

Power Button

Turns the unit on and off. A brief press turns power on in a Standby Mode to make settings without interfering with other wireless systems in the vicinity. Pressing and holding the button until a counter on the LCD completes a sequence turns the power on with the RF output turned on. Pressing and holding for the duration of a countdown turns the unit off.

UP and DOWN Arrow Buttons

The Up and Down arrow buttons are used to select the values on the various setup screens and to lock out the control panel. Press and hold both buttons until a countdown is completed to lock the keypad. Remove the battery to unlock the keypad.

Turning LEDs ON and OFF

These arrow keys also turn the LEDs on and off. With no other button pressed, the UP arrow turns the LEDs on and the DOWN arrow turns them off. When the LEDs are tuned off, the LCD will display a reminder every few seconds.

See Setup Screens and Operating Instructions for complete information.

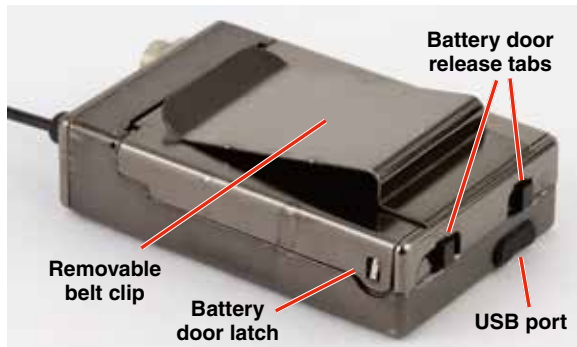
Connectors and USB Port

The housing is machined out of a solid aluminum billet for a rugged, lightweight assembly.



The antenna is a flexible whip made of galvanized steel, permanently attached to the transmitter to prevent damage from heavy use. The IR port is capped with a translucent dome material to broaden the reception angle. The input jack is a rugged 3-pin LEMO connector with a threaded locking sleeve.

The opposite end of the transmitter contains the battery door latches and release tabs, and the USB port, which is used for firmware updates.



The battery door itself is made of stainless steel to allow a thin wall thickness, but retain the strength to withstand heavy use.

Attaching and Removing the Microphone

Align the ridges on the plug with the grooves in the jack and insert the plug.



Slide the threaded sleeve onto the jack and rotate it clockwise to tighten it.



Operating Instructions

Powering On in Operating Mode

Press and hold the Power Button  for several seconds until a counter on the LCD progresses from 1 through 3, followed by a display of the model, firmware version, frequency block and compatibility mode.



When you release the button, the unit will be operational with the RF output turned on and the Main Window displayed.

Powering On in Standby Mode

A brief press of the Power Button , releasing it before the counter has reached 3, will turn the unit on with the RF output turned off. The LCD will display a reminder that the RF output of the transmitter is turned off.



In this Standby Mode the menus can be browsed to make settings and adjustments without the risk of interfering with other wireless systems nearby.

After settings and adjustments are made, press the power button again to turn the unit off.

Powering Off

Holding the Power Button  in and waiting for the completion of the countdown will turn the power off.



If the power button is released before the countdown is completed, the unit will remain turned on and the LCD will return to the same screen or menu that was displayed previously.

Setup Screens

Two different setup menus are accessed by holding either the UP or DOWN arrow button while powering the unit on. See the opposite page for a complete listing of the menus and how to navigate them.

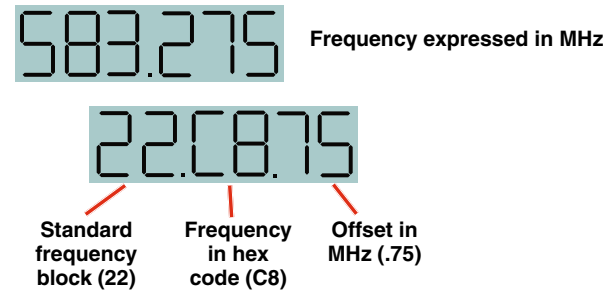
Screens Used in Normal Operation

When the transmitter is turned on with the RF output on, the LCD will display the frequency, audio gain or LF roll-off point.

Audio gain is expressed in dB.



Frequency is displayed in one of two ways:



LF roll-off is expressed in Hz.



To make changes to the settings, press either button to display the desired screen, then use the UP and DOWN arrows to select the value. The changes take effect immediately when you release the buttons.

Setup Steps

The setup menus are accessed by holding either the UP or DOWN arrow while powering the unit on. Refer to **Setup Screens** on the previous page for details of each setup parameter.

The following list outlines the steps necessary to set up the transmitter for normal use.

- 1) Install a charged battery.
- 2) Set the compatibility mode to match the receiver to be used.
- 3) Adjust the step size and frequency to match the receiver. The frequency is normally determined using the receiver to identify one within clear operating spectrum. Refer to the receiver instructions for details on using features such as scanning.

NOTE: Some Lectrosonics receivers include an IR (infrared) port to transfer settings from the receiver to the transmitter. Refer to the section on IR (infrared) Sync for details.

- 4) Connect the microphone or audio source to be used. Select the correct input configuration.
- 5) Adjust the input gain. Refer to **Adjusting the Input Gain** on the following page for details.
- 6) Turn on the receiver and verify that solid RF and audio signals are present (see receiver manual)

WARNING: Moisture, including talent's sweat, will damage the transmitter. Wrap the SSM/E01 in a plastic baggie or other protection to avoid damage.

Setup Screens

DOWN Button Menu

Hold the DOWN button while powering up the unit. Then press the AUDIO button repeatedly to scroll through the following settings. Use the UP and DOWN arrows to select the available options under each setting.

- **rc** - remote control operation; selections: **on**, **oFF**
- **PbAc** - power-back-on after power loss; selections: **0** (stay turned off), **1** (turn back on)
- **bL** - back light duration; selections: **5** (minutes), **30** (seconds), **on** (always on)
- **b, c** - For accessing the 606 band, b1 or c1, 606b or 606c, Contact the factory for details

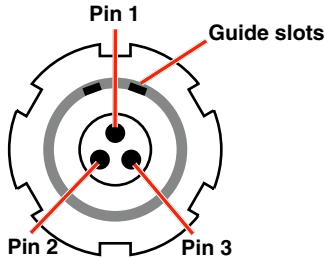
UP Button Menu

Hold the UP button while powering up the unit. Then press the AUDIO button repeatedly to scroll through and select the following settings (bulleted). Use the UP and DOWN arrows to select the available options under each setting.

- **CP** - compatibility mode; press the UP and DOWN arrows to select one of the following:
 CP Hbr Digital Hybrid mode
 CP IFb IFB Series mode; IFBR1/1a receivers
 CP 3 Mode 3; Contact the factory for details
- **Pr** - RF power output; selections: 25, 50
- **In** - Input configuration; press the UP and DOWN arrows to select one of the following:
 In dYn bIAS 0, rES 0; use for dynamic microphones
 In 152 bIAS 4, rES 0; same as otH; listed for easy selection on Lectrosonics 152 and similiar mics
 In SEn bIAS 4, rES 0; same as otH; listed for easy selection on Sennheiser MKE 2 and similiar mics
 In SEt Press the AUDIO button for manual setup of input for explicit control over bias voltage, input resistance and audio polarity. Press the AUDIO button to select the following parameters, then use the UP and DOWN arrows for each item to set the values.
 bIAS - bias voltage on the input; selections **0**, **2** or **4**
 rES - input impedance; selections: **0** (300 ohms), **Lo** (approx. 4 k ohms) or **HI** (approx. 100 k ohms)
 AP - audio polarity (aka "phase"); selections: **P** for positive, **n** for negative (reversed)
 NOTE: When you press AUDIO after setting the polarity, the screen will leave this submenu and return to the In menu. To return to this submenu, press AUDIO repeatedly and scroll through the list again.
- **StP** - Frequency tuning step size in kHz; selections: 25 kHz or 100 kHz

Microphone Wiring

Looking into the 3 pin Lemo mic connector from the outside of the transmitter, the pin centered in the two guide slots is pin 1 (ground). Pin 2 is a 1k resistor to ground. Pin 3 is the audio/bias connection for two-wire microphones and line inputs.



Voltages, polarity, impedance and line level for all signal sources are selected by menus. Menu selections include presets for popular microphones, and a sub-menu for manual setup. Refer to the section entitled **Setup Screens** on the previous page for details.

Two-wire electret lavalier:

Pin 1 - Ground (shield)

Pin 3 - Audio and Bias

Sanken COS-11 lavalier

Recommended Wiring:

Pin 1 - Shield (ground)

Pin 2 - White (source load)

Pin 3 - Black (bias and audio)

NOTE: The COS-11 can also be wired in a two-wire configuration. Contact Plus24/Sanken for details.

The Sanken CUB-01 is not supported.

Line Input Wiring and Use

The line input has been updated to increase the maximum input level. The configurations differ depending on serial number:

New Configuration:

Pin 1: Shield (ground)

Pin 2: Audio

NOTE: This line input configuration is found on the following serial numbers and higher:

Band A1 S/N 2885 and higher

Band B1 S/N 2920 and higher

Transmitter Settings:



Unlike the old configuration, the new line input configuration requires no fixed gain setting. The gain setting can be adjusted as needed for the specific input level used.

Old Configuration:

Pin 1: Shield (ground)

Pin 3: Audio and bias

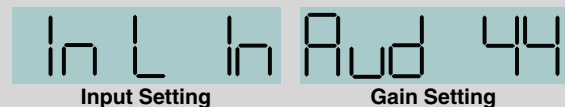
NOTE: This line input configuration is found on the following serial numbers and lower:

Band A1 S/N 2884 and lower

Band B1 S/N 2919 and lower

Band C1 all S/N's

Transmitter Settings:



Note: This gain setting may seem “backwards” or illogical, however, it is correct due to the unique nature of the SSM input circuitry. Input Jack Configuration

Input Jack Configuration

Looking into the 3 pin Lemo mic connector from the outside of the transmitter, the pin centered in the two guide slots is pin 1 and is ground. At 7 o'clock is pin 2 with a 2k resistor to ground. That 2k is a source load for the Sanken COS-11 to save putting a resistor in the connector. At 4 o'clock is pin 3, the servo audio input.

Pin 1 - ground

Pin 2 - 2k source load to ground

Pin 3 - servo input

Voltages, phase, impedance, and line level for all mics signal sources are selected by menus. Pin 3 is the only connection for all mics except for the aforementioned Sanken COS-11. Countryman, DPA, Sanken COS-11 and standard two wire mics can be configured in the menus. The Sanken CUB-01 is not supported.

Locking the Controls

The keypad can be locked to prevent inadvertent changes to be made to the transmitter. Press and hold both the UP and DOWN arrow buttons for several seconds until a countdown is completed on the LCD. The display will show **unloc 3...2...1** and then **Loc** will appear. To unlock, remove the batteries.

NOTE: This function is **NOT** affected, either locked or unlocked, by turning the power off.

Remote Control

Remote control signals ("dweedle tones") may be used to control the transmitter. The tones are played back into the microphone to avoid the need to reach and handle the transmitter when making changes to the following adjustments and settings:

- Input Gain
- Sleep/Unsleep
- Lock/Unlock
- Tx power output
- Frequency

A smart phone app is available in the App Store and in Google Play to implement this control. Search for the title **LectroRM**.

Adjusting the Input Gain

The two bicolor Modulation LEDs on the control panel provide a visual indication of the audio signal level entering the transmitter. The LEDs will glow either red or green to indicate modulation levels as shown in the following table.

Signal Level	-20 LED	-10 LED
Less than -20 dB	● Off	● Off
-20 dB to -10 dB	● Green	● Off
-10 dB to +0 dB	● Green	● Green
+0 dB to +10 dB	● Red	● Green
Greater than +10 dB	● Red	● Red

NOTE: Full modulation is achieved at 0 dB, when the "-20" LED first turns red. The limiter can cleanly handle peaks up to 30 dB above this point.

It is best to go through the following procedure with the transmitter in the standby mode so that no audio will enter the sound system or recorder during adjustment.

- 1) With a charged battery in the transmitter, power the unit on in the standby mode (see previous section **Powering On in Standby Mode**).
- 2) Press and hold the AUDIO button with **Aud** and a numeral on the display (e.g. **Aud 22**).
- 3) Prepare the signal source. Position a microphone the way it will be used in actual operation and have the user speak or sing at the loudest level that occur during use, or set the output level of the instrument or audio device to the maximum level that will be used.
- 4) Use the ⬆ and ⬇ arrow buttons to adjust the gain until the **-10 dB** glows green and the **-20 dB** LED starts to flicker red during the loudest peaks in the audio.
- 5) Once the audio gain has been set, the signal can be sent through the sound system for overall level adjustments, monitor settings, etc.
- 6) If the audio output level of the receiver is too high or low, use only the controls on the receiver to make adjustments. Unless the microphone or its position changes, or a different instrument is being used, leave the transmitter gain adjustment set according to these instructions. Use the audio output level control on the receiver to make adjustments for the desired level being delivered to the connected mixer, recorder, etc.

LectroRM

By New Endian LLC

LectroRM is a mobile application for iOS and Android smart phone operating systems. Its purpose is to make changes to the settings on select Lectrosonics transmitters by delivering encoded audio tones to the microphone attached to the transmitter. When the tone enters the transmitter, it is decoded to make a change to a variety of different settings such as input gain, frequency and a number of others.

The app was released by New Endian, LLC in September 2011. The app is available for download and sells for about \$20 on the Apple App Store and Google Play Store.

The settings and values that can be changed vary from one transmitter model to another. The complete list of available tones in the app is as follows:

- Input gain
- Frequency
- Sleep Mode
- Panel LOCK/UNLOCK
- RF output power
- Low frequency audio roll-off
- LEDs ON/OFF

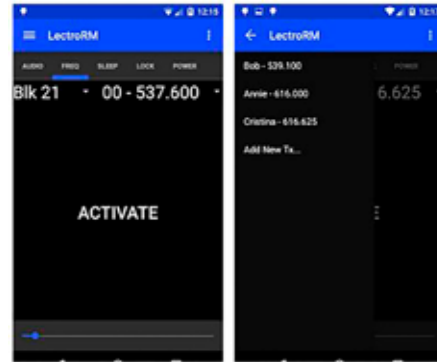
The user interface involves selecting the audio sequence related to the desired change. Each version has an interface for selecting the desired setting and the desired option for that setting. Each version also has a mechanism to prevent accidental activation of the tone.

iOS



The iPhone version keeps each available setting on a separate page with the list of options for that setting. On iOS, the “Activate” toggle switch must be enabled to show the button which will then activate the tone. The iOS version’s default orientation is upside-down but can be configured to orient right-side up. The purpose for this is to orient the phone’s speaker, which is at the bottom of the device, closer to the transmitter microphone.

Android



The Android version keeps all settings on the same page and allows the user to toggle between the activation buttons for each setting. The activation button must be pressed and held to activate the tone. The Android version also allows users to keep a configurable list of full sets of settings.

Activation

For a transmitter to respond to remote control audio tones, the transmitter must meet certain requirements:

- The transmitter must be turned on.
- The transmitter must have firmware version 1.5 or later for Audio, Frequency, Sleep and Lock changes.
- The transmitter microphone must be within range.
- The remote control function must be enabled on the transmitter.

Please be aware this app is not a Lectrosonics product. It is privately owned and operated by New Endian LLC, www.newendian.com.

IR (infrared) Sync

An IR (infrared) link between an associated receiver and the transmitter can be used to shorten setup time and ensure that the correct settings in the transmitter are made. The dome on the side panel of the transmitter is the port used for the IR link. The receiver is normally used to identify a clear operating frequency. Once step size, frequency and compatibility mode are set in the receiver, the settings can be sent to the transmitter via this IR link.



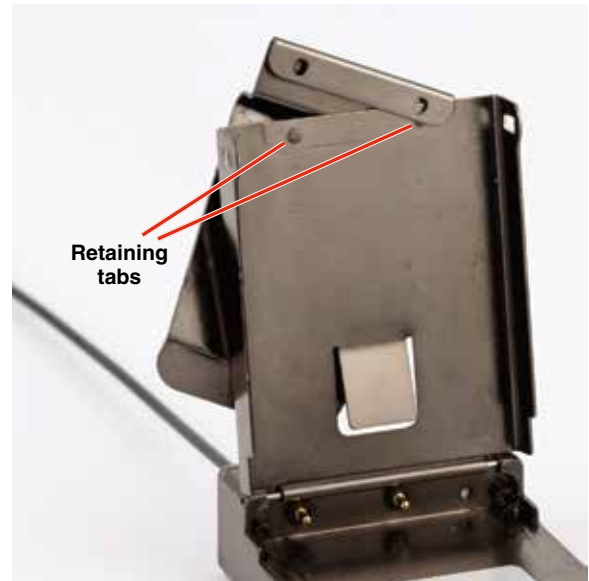
Place the transmitter close to the IR enabled receiver with the ports facing each other within a foot or two apart. Send the settings with the trigger on the receiver. If the settings are successfully transferred, a confirmation message will appear on the transmitter LCD.

Ir Sync

NOTE: If a mismatch exists between the receiver and transmitter, an error message will appear on the transmitter LCD stating what the problem is.

Removable Belt Clip

The belt clip may be removed by sliding it off the retaining tabs on the battery door.



When mounting the belt clip onto the battery door, carefully align the openings with the retaining tabs on the door. If they are not precisely aligned, the door may not close and latch properly.

Align the openings and tabs precisely.



Accessories

Replacement belt clip

P/N 26995 slide-on belt clip for SSM transmitter



Specifications

Operating Frequencies:

Band A1:	470.100 - 537.575
Band B1:	537.600 - 614.375
Band B2:	563.200 - 639.975
Block 606:	606.000 - 631.500
Band C1:	614.400 - 691.175

Frequency Selection Steps:

Selectable; 100 kHz or 25 kHz

RF Power output:

Selectable; 25 or 50 mW

Pilot tone:

25 to 32 kHz; 3 kHz deviation
(Digital Hybrid mode)

Frequency Stability:

± 0.002%

Deviation:

± 50 kHz max. (Digital Hybrid mode)

Spurious radiation:

60 dB below carrier

Equivalent input noise:

-120 dBV (A-weighted)

Input level:

Nominal 2 mV to 300 mV, before limiting
Greater than 1V maximum, with limiting.

Input impedance:

- Mic: 300 or 4.5 k ohm; selectable
- Line: greater than 100 k ohm

Input limiter:

DSP controlled, dual envelope "soft" limiter
with greater than 30 dB range

Gain control range:

44 dB; digital control

Modulation indicators:

Dual bicolor LEDs indicate modulation of
-20, -10, 0 and +10 dB referenced to full
modulation

Audio Performance (Digital Hybrid mode)

Frequency Response:

70 Hz to 20 kHz (+/-1dB)

Low frequency roll-off:

-12 dB/octave; 70 Hz

THD:

0.2% (typical)

SNR at receiver output:

	SmartNR	No Limiting	w/Limiting
OFF		103.5	108.0
NORMAL		107.0	111.5
FULL		108.5	113.0

Note: The dual envelope "soft"
limiter provides exceptionally good
handling of transients using variable
attack and release time constants.

Once activated, the limiter compresses
30+ dB of transmitter input range into 4.5 dB of receiver output range, thus
reducing the measured figure for SNR without limiting by 4.5 dB

Controls:

Side panel membrane switches with LCD
interface for power on/off and all setup and
configuration controls

Audio Input Jack:

LEMO 00 Series 3-pin

Antenna:

Galvanized steel, flexible wire

Battery:

Lithium-ion 3.6 V rechargeable

Battery Life:

4 hours per charge

Weight:

2.3 ounces (65.2 grams) including lithium battery
pack

Dimensions (housing):

2.3 x 1.5 x .56 in. (58.4 x 38 x 14.2 mm)

Emission Designator:

180KF3E

Service and Repair

If your system malfunctions, you should attempt to correct or isolate the trouble before concluding that the equipment needs repair. Make sure you have followed the setup procedure and operating instructions. Check the interconnecting cables.

We strongly recommend that you **do not** try to repair the equipment yourself and **do not** have the local repair shop attempt anything other than the simplest repair. If the repair is more complicated than a broken wire or loose connection, send the unit to the factory for repair and service. Don't attempt to adjust any controls inside the units. Once set at the factory, the various controls and trimmers do not drift with age or vibration and never require readjustment. **There are no adjustments inside that will make a malfunctioning unit start working.**

LECTROSONICS' Service Department is equipped and staffed to quickly repair your equipment. In warranty repairs are made at no charge in accordance with the terms of the warranty. Out-of-warranty repairs are charged at a modest flat rate plus parts and shipping. Since it takes almost as much time and effort to determine what is wrong as it does to make the repair, there is a charge for an exact quotation. We will be happy to quote approximate charges by phone for out-of-warranty repairs.

Returning Units for Repair

For timely service, please follow the steps below:

- A.** DO NOT return equipment to the factory for repair without first contacting us by e-mail or by phone. We need to know the nature of the problem, the model number and the serial number of the equipment. We also need a phone number where you can be reached 8 A.M. to 4 P.M. (U.S. Mountain Standard Time).
- B.** After receiving your request, we will issue you a return authorization number (R.A.). This number will help speed your repair through our receiving and repair departments. The return authorization number must be clearly shown on the **outside** of the shipping container.
- C.** Pack the equipment carefully and ship to us, shipping costs prepaid. If necessary, we can provide you with the proper packing materials. UPS or FEDEX is usually the best way to ship the units. Heavy units should be "double-boxed" for safe transport.
- D.** We also strongly recommend that you insure the equipment, since we cannot be responsible for loss of or damage to equipment that you ship. Of course, we insure the equipment when we ship it back to you.

Lectrosonics USA:

Mailing address:

Lectrosonics, Inc.
PO Box 15900
Rio Rancho, NM 87174
USA

Web:

www.lectrosonics.com

Shipping address:

Lectrosonics, Inc.
561 Laser Rd., Suite 102
Rio Rancho, NM 87124
USA

E-mail:

service.repair@lectrosonics.com
sales@lectrosonics.com

Telephone:

+1 (505) 892-4501
(800) 821-1121 Toll-free US and Canada
Fax +1 (505) 892-6243

Lectrosonics Canada:

Mailing Address:

720 Spadina Avenue,
Suite 600
Toronto, Ontario M5S 2T9

Telephone:

+1 (416) 596-2202
(877) 753-2876 Toll-free Canada
(877) 7LECTRO
Fax (416) 596-6648

E-mail:

Sales: colinb@lectrosonics.com
Service: joeb@lectrosonics.com



P.O. Box 15900 - Rio Rancho, NM - 87174 - USA
 Phone: (800)821-1121 or (505)892-4501 - Fax: (505)892-6243
 web: www.lectrosonics.com - email: sales@lectrosonics.com

Declaration of Conformity

LECTROSONICS, INC.
 581 Laser Road
 Rio Rancho, NM 87124 USA

Declare under our sole responsibility that the following product:

SSM/E01 Micro Bodypack Transmitter

Models:

SSM/E01-A1, SSM/E01-B1, SSM/E01-C1, SSM/E01-D1

to which this Declaration relates, is in conformity with the directives and standards listed below,

Radio Spectrum R&TTE 1999/5/EEC

Standard: EN 300 422-2 v1.4.1 (2015-06)
 Test report: R1502274-422

EMC Directive 2004/108/EC

Standard: EN 301 489-1 v1.9.2 (2011-09)
 Standard: EN 301 489-9 v1.4.1 (2007-11)
 Test report: R1502274-12

Safety/Low Voltage Directive 2006/95/EC

Standard: EN 60065: 2002 + A12: 2011
 Test report: R1502274-3
 Standard: EN 62311: 2008
 Test report: R1502274-SAR

and is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 (RoHS Recast).

The product carries the CE mark: **CE1313**

Robert Cummings
 V.P. Engineering
 Lectrosonics, Inc.

21 March 2016



P.O. Box 15900 - Rio Rancho, NM - 87174 - USA
 Phone: (800)821-1121 or (505)892-4501 - Fax: (505)892-6243
 web: www.lectrosonics.com - email: sales@lectrosonics.com

EU Declaration of Conformity

LECTROSONICS, INC.
581 Laser Road
Rio Rancho, NM 87124 USA

Declares under our sole responsibility that the following product:

Model: SSM/E01-B2

Wireless microphone transmitter

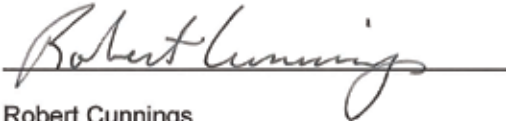
is in conformity with the provisions of the following EC directive(s) (including applicable amendments) and are designed and manufactured in accordance with the harmonized standards:

Document	Description	Date/Version
RL 2014/53/EU	Radio Equipment Directive 2014/53/EU (RED)	2014-04
	Radio Spectrum (article 3.2 of R&TTE)	
EN 300 422-1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers	V2.1.2 (2017-01)
	Electromagnetic Compatibility (article 3.1.b of R&TTE)	
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Common Technical Requirements	V2.2.0 (2017-03)
EN 301 489-9	Specific Conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	V2.1.1 (2017-03)
	Safety and Health	
EN 60065-1	Audio, video and similar electronic apparatus – Safety Requirements	2014
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)	2008
RL 2011/65/EU	RoHS Directive 2011/65/EU: Restriction of the use of certain hazardous substances (RoHS Recast)	2011

The EU type examination was performed by notified body Bay Area Compliance Laboratories.

Software version of SSM/E01-B2: v1.06

Rio Rancho, NM USA, 25 May 2017

A handwritten signature in black ink, reading "Robert Cummings", is written over a horizontal line.

Robert Cummings
V.P. Engineering
Lectrosonics, Inc.

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.

