# SL-2

## DUAL SUPERSLOT WIRELESS MODULE
### FOR 8-SERIES MIXER-RECORDERS
### USER GUIDE

**SOUND** DEVICES

## Legal Notices

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Read and fully understand this manual before operation.

**SOUND DEVICES**

## Manual Conventions

| SYMBOL | DESCRIPTION |
|---|---|
| > | This symbol is used to show the order in which you select menu commands and sub-options, such as: Main Menu > Outputs indicates you press the Menu button for the Main Menu, then scroll to and select Outputs by pushing the Knob. |
| [ ] | This symbol is used to convey selectable menu items. |
| * | This symbol is used to convey factory default settings. |
| + | A plus sign is used to show button or keystroke combinations. For instance, Ctrl+V means to hold the Control key down and press the V key simultaneously. This also applies to other controls, such as switches and knobs. For instance, MIC+HP turn means to slide and hold the MIC/TONE switch left while turning the Headphone (HP) knob. METERS+SELECT means to hold the METERS button down as you press the SELECT knob. |
| Note | A note provides recommendations and important related information. The text for notes appears italicized. |
| * | A cautionary warning about a specific action that could cause harm to you, the device, or cause you to lose data. Follow the guidelines in this document or on the unit itself when handling electrical equipment. The text for cautionary notes also appears italicized and bold in a different color. |

**SL-2 User Guide | Rev 7/2020**

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**This table provides the revision history and cross-reference links to "what's new" in this guide.**

| DATE | DESCRIPTION |
|---|---|
| 7/20 | Initial Release |

## Parts List

| |
|---|
| SL-2 Dual SuperSlot Wireless Module |
| SL-2 Product Sheet with DOC |
| Sound Devices Product Catalog |
| Promo Sticker (Black) |
| Promo Sticker (White) |
| 2x Black Rubber Slot Protectors |
| 2x Rear Keyhole Pegs |
| 6x Screw 6mm STEEL M3 low-profile (only needed for Scorpio) |
| SL-2 Front Bracket for Scorpio (only needed for Scorpio) |
| SL-2 Rear Bracket for Scorpio (only needed for Scorpio) |
| 2 mm Allen Wrench Hex 2-1/16"L |

# Welcome to the SL-2

Streamline your bag with the SL-2 Dual SuperSlot Wireless Module. This two slot-in wireless receiver integration system easily mounts to the top panel of any 8-Series mixer-recorder. UniSlot and SuperSlot™ wireless receivers from a variety of manufacturers are accepted, including Audio Ltd, Lectrosonics, Wisycom, and Sennheiser. The SuperSlot protocol supports up to four channels of wireless audio per slot.

An 8-Series mixer-recorder supplies power to the SL-2 and slotted-in receivers - no external DC connector needed. Analog or digital audio is sent from the receivers into the mixer-recorder via the expansion port, reducing messy cabling for power and audio connectivity. The SL-2 offers antenna distribution to slot-in receivers, spreading out the placement of antennas for better RF performance. The rear panel of the SL-2 is equipped with two TA3 connectors for an additional four inputs of AES3 audio and two 4-pin Hirose DC Outputs, each supplying up to 500 mA for powering additional equipment.

- Compatible with the 833, 888, and the Scorpio.
- Accepts two UniSlot or SuperSlot wireless receivers from Audio Ltd, Lectrosonics, Sennheiser, and Wisycom.
- Built-in antenna distribution with antenna powering for active antennas or boosters.
- Supports remote control of third party smart antennas.
- Two auxiliary MCX antenna ports for connecting other receivers or RF distribution.
- Two TA3 AES3 inputs for an additional 4 channels of digital audio.
- Two DC Outputs via Hirose 4-pin connectors, each supplying up to 500 mA.
- Powers via an 8-Series mixer-recorder.
- Accepts either analog or digital audio from slot-in receivers.
- Ability to set and monitor multiple functions of a SuperSlot-compatible receiver from the 8-Series mixer-recorder.
- RF Scan with visual representation of the RF spectrum.
- Monitor transmitter battery, receiver audio, and RF levels.
- Rugged, lightweight, and compact design.
- Mounts to the top of any 8-Series mixer-recorder.
- Same width as the 833.

**We are honored to be part of your kit.**

Sincerely,
Sound Devices
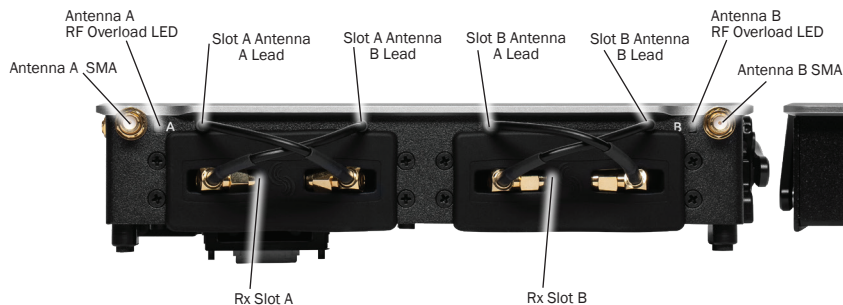
# About this User Guide

This SL-2 User Guide covers hardware explanations, device specifications, instructions for attaching the SL-2 to your 8-Series Mixer-Recorder, and the SL-2 Declaration of Conformity. Functionality, supported receivers, and details of using the 8-Series user interface to control SuperSlot receivers is covered in your respective 8-Series Mixer-Recorder's User Guide.
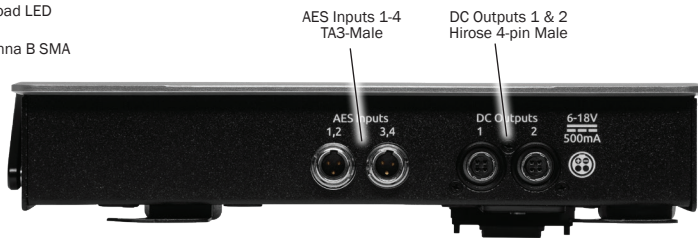
# Table of Contents

# Panel Views

Antenna A
RF Overload LED

Slot A Antenna
A Lead

Slot A Antenna
B Lead

Slot B Antenna
A Lead

Slot B Antenna
B Lead

Antenna B
RF Overload LED

Antenna A SMA

Antenna B SMA

AES Inputs 1-4
TA3-Male

DC Outputs 1 & 2
Hirose 4-pin Male

Rx Slot A

Rx Slot B

**ANTENNA A & B SMA CONNECTORS** Connects antenna to the SL-2. Both SMA antenna connectors can provide 12 V bias power up to 500 mA via a menu option. RF frequency range covers 470 - 1260 MHz. RF Filtering is available in the menus.

**RX SLOT A & B** Accepts Slot-in Unislot or SuperSlot receivers. Connects via DB-25 connector. SL-2 automatically locks the receiver in place. No screws are necessary to secure the receiver in the SL-2 slots. Cover empty slots with the included Rubber Slot Protector when not in use.

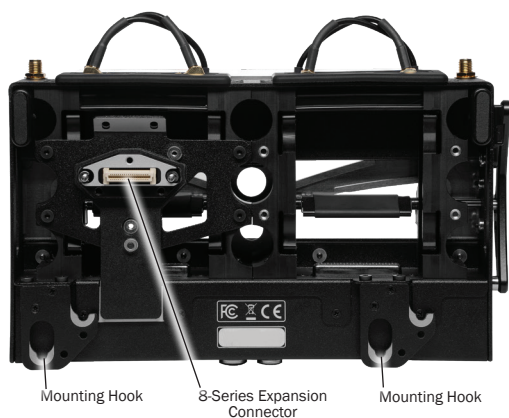**SLOT A & B ANTENNA A LEAD** Distributes Antenna A to the left SMA connector of your receiver.

**SLOT A & B ANTENNA B LEAD** Distributes Antenna B to the right SMA connector of your receiver.
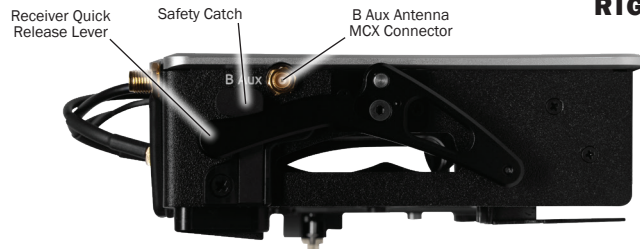
**AES INPUTS 1 - 4** Accepts up to four AES3 signals via the TA3-M input connectors. Each connector accepts two channels of AES3. Incoming signal can be routed to 8-Series Mixer-Recorder channels via the menus. Input type: AES3, balanced, TA3F connectors, Impedance: 110 ohms, Sensitivity: 200 mV or higher accepted
Wiring: pin 1 = ground; pin 2 = +; pin 3 = −.

**DC OUTPUTS 1 & 2** Each Hirose 4-pin male connector provides 6-18 V DC at 500 mA [pin-4=+, pin-1=-]. Useful for providing power to other pariperals such as RF equipment. Power can be defeated in the menus.

**ANTENNA A & B RF OVERLOAD LEDS** Each antenna input on the front panel of the SL-2 has an associated LED that displays incoming RF overload status. Red = Overload, Orange = approaching overload, Off = no overload.

A Aux Antenna
MCX Connector

A Aux

Receiver Quick
Release Lever

Safety Catch

B Aux Antenna
MCX Connector

B Aux

**A & B AUX ANTENNA MCX CONNECTORS** Distributes Antenna A and B to external receivers.

**RECEIVER QUICK RELEASE LEVER & SAFETY CATCH** To eject slotted in receivers, press in on the Safety Catch with one finger then push the lever down. Continue holding the lever down, then pull the receivers out of the slot with your other hand.

**8-SERIES EXPANSION CONNECTOR** Proprietary connector for attaching the SL-2 to the 8-Series. Provides all power, data, and audio signal needed for SL-2 and 8-Series functionality.

**MOUNTING HOOKS** These hooks are used to attach your 8-Series Mixer-Recorder. See Attaching the SL-2 for more details.

Mounting Hook

8-Series Expansion
Connector

Mounting Hook

# Attaching the SL-2

Power down the mixer-recorder and remove all power sources. Proper and complete assembly of the SL-2 is required for optimal RF emission performance. After removing the SL-2, it is important that you replace all original screws on the 8-Series mixer-recorder. See assembly instructions for the 8-Series model for which you will be attaching the SL-2.

## 833 & 888

The following instructions describe attaching the SL-2 to the 833 and 888. For this assembly you will need:
• 833 or 888 Mixer-Recorder (not included)
• SL-2
• 2x Rear Keyhole Pegs
• 2 mm Allen Wrench Hex 2-1/16"L
• #4 Phillips Screwdriver (not included)

**STEP 1** Remove the magnetic expansion port cover on the top of the 833/888 by prying up gently to break the magnetic connection. Attach the connector cover to the bottom of the 833/888 for safekeeping.



**STEP 2** Using a #4 Phillips Screwdriver, remove the two black phillips screws from the Scorpio top panel as shown in the image below. Keep these screws in a safe place as they need to be re-installed if the SL-2 is removed from the 833/888.
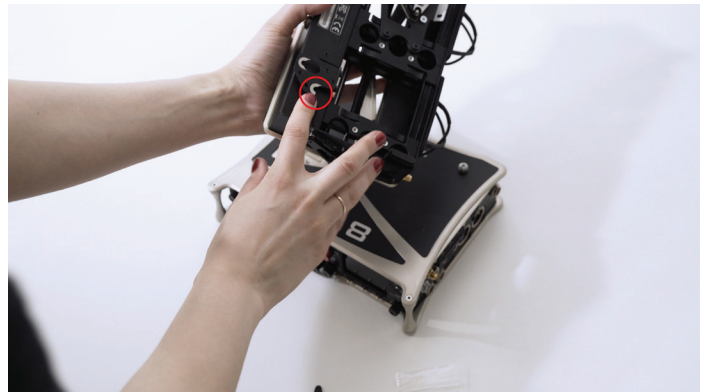


**STEP 3** Using the provided 2 mm Allen Wrench, screw in two Rear Keyhole Pegs into the threads where you removed the screws in Step 2.



**STEP 4** Align the SL-2's bottom panel hooks with the Rear Keyhole Pegs on the 833/888. The SL-2 should be tilted with the front panel slightly higher than the rear. Take care not to bump the SL-2 expansion connector against the 833/888 top panel. Once the SL-2's Bottom Panel hooks and Rear Keyhole Peg's machined grooves are aligned, slide the SL-2 towards the front panel.

On an 833, the back of the silver mount screws will rest against this indent.



On an 888, the silver mount screws will fit inside this hole.

**STEP 5** Make sure that the SL-2 Expansion Connector mates with the 833/888 Expansion Port. Then gently press down on the SL-2 to fully seat the pins of the connector.



**STEP 6** Using the supplied 2 mm Allen Wrench, secure the SL-2 to the 833/888 top panel with the two captive screws as shown in the image below.

## SCORPIO

The following instructions describe attaching the SL-2 to the Scorpio. For this assembly you will need:

- Scorpio Mixer-Recorder (not included)
- SL-2
- 2x Rear Keyhole Pegs
- 6x Screw 6 mm STEEL M3 low-profile
- Scorpio Front Bracket
- SL-2 Rear Bracket
- 2 mm Allen Wrench Hex 2-1/16"L
- #4 Phillips Screwdriver (not included)

**STEP 1** Remove the magnetic expansion port cover on the top of the Scorpio by prying up gently to break the magnetic connection. Attach the connector cover to the bottom of the Scorpio for safekeeping.



**STEP 2** Using a #4 Phillips Screwdriver, remove the black phillips screw from the Scorpio top panel as shown in the image below. Keep these screws in a safe place as they need to be re-installed if the SL-2 is removed from the Scorpio.



**STEP 3** Using the provided 2 mm Allen Wrench, screw in two Rear Keyhole Pegs into the threads where you removed the screws in Step 2.



**STEP 4** Position the Scorpio Front Bracket on the top panel of the Scorpio as shown in the image below. Secure the Scorpio Front Bracket with two 6 mm screws using the supplied 2 mm Allen Wrench.

**STEP 5** Position the SL-2 Rear Bracket on the rear panel of the SL-2 as shown in the image below. Secure the SL-2 Rear Bracket with two 6 mm screws using the supplied 2 mm Allen Wrench.
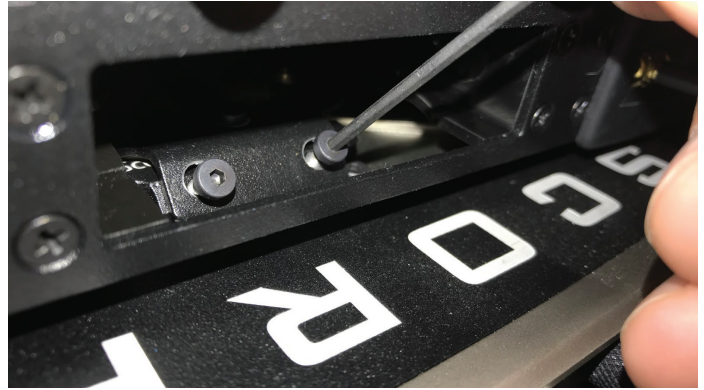


**STEP 6** Align the SL-2 Rear Bracket and the Rear Keyhole Peg on the Scorpio. The SL-2 should be tilted with the front panel slightly higher than the rear. Take care not to bump the SL-2 Expansion Connector against the Scorpio top panel. Lower the rear of the SL-2 Rear Bracket onto the Rear Keyhole Peg on the Scorpio. Once the SL-2 Rear Bracket and Rear Keyhole Peg's machined grooves are aligned, slide the SL-2 towards the front panel.



**STEP 7** Make sure that the SL-2 Expansion Connector mates with the Scorpio Expansion Port. Then gently press down on the SL-2 to fully seat the pins of the connector.



**STEP 8** Secure the SL-2 to the Scorpio Front Bracket with two 6 mm screws using the supplied 2 mm Allen Wrench.



**STEP 9** Secure the SL-2 to the Scorpio with two 6 mm screws on either side of the Expansion Connector as shown in the image below using the supplied 2 mm Allen Wrench.

# Inserting Receivers in the SL-2

It is important to turn off power to the SL-2 slot prior to removing and inserting receivers to avoid potential hardware damage. Slot power can be turned off in the Menu>System>Expansion Port menu, Menu>SuperSlot>Options>Slot Power, or by turning the 8-Series Mixer-Recorder Off.

**STEP 1** Remove the Uni Slot adapter plate from your receiver. This part can be called different things depending on the manufacturer of your wireless receiver. Wisycom refers to this part as a Flange and Lectrosonics refers to it as blue bezel. The SL-2 was designed with a locking mechnism that negates the use of a plate. This also reduces overall weight and allows for quick installation or removal of receivers.

**STEP 2** Remove the Rubber Slot Protector from the SL-2 slot and keep it in a safe place for future use. Reinsert the Rubber Slot Protector when removing the receiver.

**STEP 3** Insert the receiver with the DSub connector down to mate with the SL-2 DSub connector.

**STEP 4** Press in on the Saftey Catch and push the Receiver Quick Release Lever down. Continue to hold down the lever while firmly pushing the Rx into the slot. Then release the lever.

# Removing Receivers from the SL-2

Press in on the SL-2 Saftey Catch and push the Receiver Quick Release Lever down. Continue to hold down the lever while sliding the receiver out of the slot. Release the lever. Replace the Rubber Slot Protector to prevent against dust and debris.

# Specifications

Specifications are subject to change without prior notice.
For the latest information available on all Sound Devices products,
visit our website: www.sounddevices.com.

**POWERING**
All power supplied by host 8-Series machine
SL-2 idle power draw 1.3 W (without receivers or antenna)

**ANTENNA IMPEDANCE**
50 ohms

**ANTENNA POWERING**
12 V at 200 mA, menu selectable on/off
Serial remote control, Wisycom-compatible for ADFA and LFA powered
antenna etc.

**ANTENNA PRE-SELECT FILTERS**
Menu selectable:
Wideband/bypass (low pass filter, 1.7 GHz upper cut-off)
470-614 MHz
542-694 MHz
606-770 MHz
770-960 MHz

**INPUT RF ATTENUATORS**
0 to -18 dB, in 6 dB steps, menu selectable

**RF OUTPUTS**
Auxiliary Antenna Outputs for additional receiver

**DC OUTPUTS 1-2**
500 mA max (each), 6-18 VDC passed through from host 8-series
machine, depending on power source.
Hirose 4-pin connector: pin 4 = +, pin 1 = ground.

**AES INPUTS**
Two pairs for a total of four channels, AES-3 balanced, 110 ohms,
TA-3 connectors

**DIMENSIONS**
H x W x D
4.5 cm x 21.3 cm x 13.1 cm;
(1.8 in x 8.4 in 5.1 in)

**WEIGHT**
1.35 lbs (unpackaged)
0.61 kg (unpackaged)

## Declaration of Conformity

Manufacturer's Name:      Sound Devices, LLC
Manufacturer's Address:   E7556 State Road 23 and 33
                          Reedsburg, WI 53959  USA

**C E**

**Declares under sole responsibility that the product as delivered**

Product Name:        SL-2

Model Number:        SL-2

Description:         Dual SuperSlot Wireless Module

Product Options:     This declaration covers all options of the above product.

**is in conformity with the essential requirements of the following relevant Union harmonisation legislation:**

Radio Equipment Directive (RED)          2014/53/EU
Low Voltage Directive                    2014/35/EU
RoHS Directive                           2011/65/EU

The following harmonized standards and/or normative documents were applied:

Safety                        EN 62368-1:2014

EMC

                              EN 301 489-9 v2.1.1 2019
                              EN 301 489-1 v2.2.0 (Draft)

This Declaration of Conformity applies to the above-listed product(s) placed on the EU market after:

June 29, 2020

Date

Matt Anderson - Sound Devices, LLC President