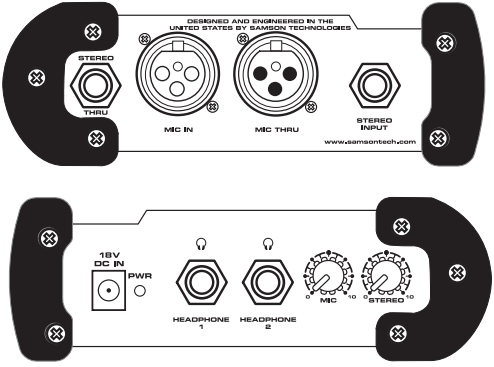
S Class Signal Processors

S·monitor



PERSONAL MONITOR MIXER/HEADPHONE AMP

Owners Manual

SAMSON
AUDIO

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A K-TEAM PRODUCTION

S monitor Introduction and Features

Introduction

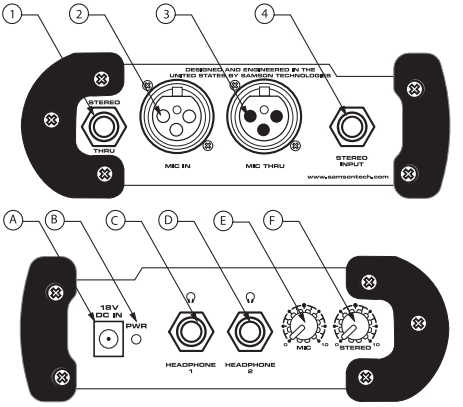
Thank you for purchasing the S monitor personal monitor system from Samson Audio!

S monitor provides an elegant solution for personal monitoring, either on stage or in the studio. The S monitor is a specially designed headphone amplifier that allows you to mix the balance between the signals from your microphone together with a stereo source. The S monitor also includes a Mic Thru output on an XLR connector for passing your microphone signal into the main PA or recording console. When designing a monitor system for multiple users, you can daisy-chain several S monitors together thanks to the convenient 1/4-inch MIX THRU connector. Individual controls for the Mic and the Mix Volume enable you to use the S monitor to set the balance between mic and mix that's just right for you. Two powerful headphone outputs (on 1/4-inch connectors) are included so you can share your personal mix with someone else. And just because this unit is miniature, don't be surprised with its great sound and reliability thanks to high quality components and solid build construction.

S monitor Features

- Personal monitor mixer/headphone amplifier
- Balanced XLR microphone input
- Balanced XLR microphone through output to send mic signal to main mixer
- 1/4-inch Stereo Input for feeding a stereo monitor signal from the main mixer
- 1/4-inch Stereo Thru for daisy-chaining, and sending the stereo monitor signal to additional units
- Microphone Volume control allows the user to set their individual mic monitor level
- Mix Volume controls the level of the Stereo Input monitor signal
- Two headphone outputs on standard 1/4-inch phone connectors
- Rugged aluminum extrusion chassis
- Large rubber bumper feet
- 18 Volt AC adapter included

S monitor Front and Rear Panel Layout



1 **STEREO THRU** - 1/4-inch TRS (TIP/RING/SLEEVE) connector to output main stereo signal.

2 **MIC INPUT** - Connect any dynamic or battery powered condenser microphone here.

3 **MIC THRU** - Parallel output for passing microphone signal to main mixer.

4 **STEREO INPUT** - 1/4-inch TRS (TIP/RING/SLEEVE) connector to input main stereo signal.(Tip = Left; Ring = Right)

A **DC POWER INPUT** - Connect the supplied power adapter here.

B **POWER LED -** Red LED will illuminate when power is on indicating the S monitor is ready for operation.

C **PHONE 1** - 1/4" output for connecting headphones.

D **PHONE 2** - 1/4" output for connecting headphones.

E **MIC VOLUME** - Control knob used to adjust the level of the MIC input signal.

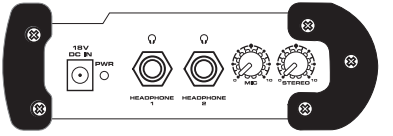
F **MIX VOLUME** - Control knob used to adjust the level of the Stereo input signal.

Operating the S monitor

Setting Up the S monitor

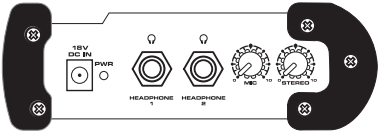
The basic procedure for setting up and using your S monitor is simple and takes only a few minutes. Remove all packing materials (save them in case of need for future service) and check to make sure that you remove the supplied AC power adapter.

Set the S monitors control knobs to the following default positions: all off.



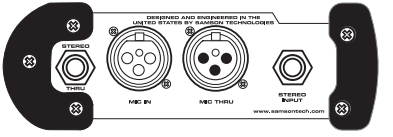
Powering the S monitor

Connect the supplied AC/DC adapter to the 18V DC Power Input on the rear panel of the S monitor then plug the adapter into any standard AC outlet.



Connecting a Microphone to the S monitor

Follow the steps below to connect your microphone to the S monitor and then to your main mixer.



Connect your microphone to the S monitor's MIC input using a standard balanced XLR microphone cable.

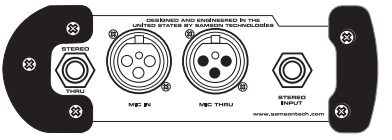
Using a second standard microphone cable, connect the S monitor's MIC THRU output to the input on your main mixer.

Operating the S monitor

Connecting a Stereo Monitor Signal

Now you're ready to connect the stereo monitor feed from your main mixer. You can use the headphone output from your mixer, one or two of your mixers AUX/MONITOR sends, or any stereo line level source to feed the STEREO monitor input.

Use a standard 1/4-inch TRS (Tip/Ring/Sleeve)(Tip=L; Ring=R) cable to connect the STEREO input.

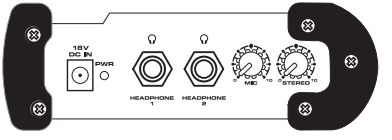


If you are using additional S monitors, use a standard 1/4-inch TRS cable to daisy-chain one unit to the next, and distribute the stereo monitor mix from unit to unit.

Connecting Headphones

IMPORTANT NOTE: *Before you install the headgear, be sure to double check that the MIC and STEREO level controls are turned to the all the way down (fully counter clockwise position). The S monitor is small, but powerful. It can generate loud signal levels into the connected headphone. We recommend that you exercise extreme caution and care for your ears. They're your most important tool, and instrument. Always start with the level controls all the way off and slowly raise the signal to a comfortable listening level.*

Now, connect your headphones to one of the S monitor's PHONE outputs.



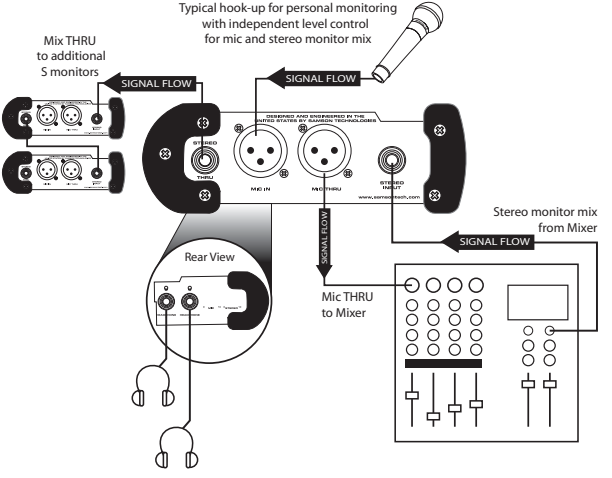
While speaking or singing into your mic, slowly raise the MIC level control until you reach a comfortable level. Then lower it just a bit.

Now, bring up your STEREO monitor send while singing or speaking into your mic. Try to speak and sing at the level that you expect to be at when performing and try to tuck the monitor mix just behind the MIC signal.

Use both the MIC and STEREO level controls to make fine adjustments to the balance of the MIC and STEREO inputs, dialing up the mix that's just right for you.

Typical Set-up

The diagram below shows a typical set-up for a small band using three S monitor mixer/headphone amplifiers for a sophisticated personal headphone monitoring system. The vocalist's microphone is connected to the MIC input and then passed through to the main mixer using the MIC THRU output. A stereo monitor feed is sent from the main mixer and connected to the S monitor's STEREO input. Using the S monitor's STEREO THRU output the monitor send can be passed from one S monitor to the next.



Creating a Mix

Now that you have connected your mic and monitor mix to the S monitor's inputs, you can begin to create your mix. The best way to do this is to adjust one channel at a time. Slowly raise the level control for the MIC input until you have reached the desired level. Now, repeat the same for STEREO input. You may want to go back and slightly raise or lower an individual channel until you have set the balance between all the connected inputs. Then, you have your perfect mix!

S monitor Specifications

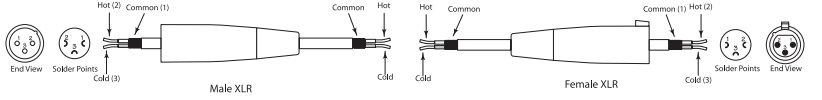
Frequency Response	10 Hz to 93 kHz
Noise Level	-100 dBu
THD+N	<0.004 %
Input Impedance	>10 kOhm
Output Impedance	100 Ohm
Stereo Input	1/4" jack unbalanaced
Mix Thru	1/4" jack unbalanaced

S monitor Specifications - continued

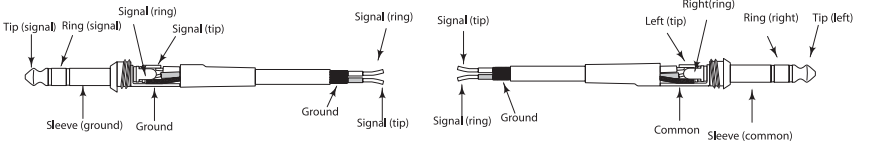
Mic Thru	XLR balanced out
Maximum Input Level	+20 dBu
Power Supply	18 V DC
Dimensions	5.65" L x 4.13" W x 2" H (144mm L x 105mm W x 51mm H)
Weight	16.5 oz., 419 gm.

S monitor Wiring Guide

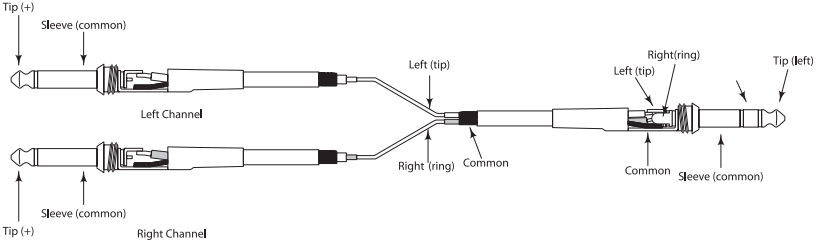
XLR MIC CABLE



TRS 1/4" Phone to TRS 1/4" Phone (STEREO) CABLE



TRS 1/4" Phone to two 1/4" Phones (STEREO) CABLE



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