



S SERIES

OPERATION MANUAL



S2V S3H S3V S5H S5V



CONGRATULATIONS!

...on the purchase of your new ADAM Audio S Series monitors. The result of several years of research and development, the S Series is designed to provide musical, extremely accurate reference monitoring for audio production to the highest possible standards, building on ADAM Audio's established reputation as a manufacturer of precision tools for audio professionals.

This manual will help you to connect, install and start using your speakers, and explain how to adjust them to best suit your working environment. It will also explain how to solve the most commonly occurring problems that users encounter when trying to install new monitors. Manufacturer contact information and a full technical specification are also included for reference purposes.

Nevertheless, if you encounter problems you can't solve, or have questions this manual doesn't provide answers to, please either contact your local dealer, or email our Berlin-based support team at support@adam-audio.de. We pride ourselves on remaining approachable and helpful to our customers at all times.

We wish you many years of happy listening with your new S Series monitors.

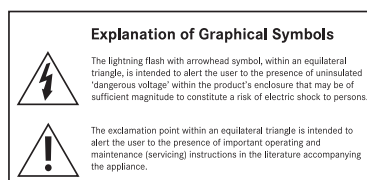
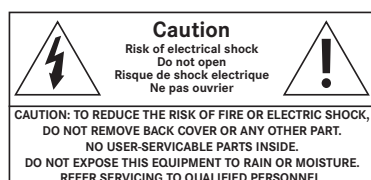
The Team at ADAM Audio

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1. IMPORTANT SAFETY INSTRUCTIONS

Please read the following safety instructions before setting up your system. Keep the instructions for further reference. Please heed the warnings and follow the instructions.



Caution: To reduce the risk of electric shock, do not open the loudspeaker. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.



This product, as well as all attached extension cords, must be terminated with an earth ground three-conductor AC mains power cord like the one supplied with the product. To prevent shock hazard, all three components must always be used.



Never replace any fuse with a value or type other than those specified. Never bypass any fuse.



Ensure that the specified voltage matches the voltage of the power supply you use. If this is not the case do not connect the loudspeakers to a power source! Please contact your local dealer or national distributor.



Always switch off your entire system before connecting or disconnecting any cables, or when cleaning any components.



To completely disconnect from AC mains, unplug the power supply from the power socket. The monitor should be installed near the mains connection and it should be easy to access the socket and disconnect the device if necessary.



Protect the power cord from being walked on or pinched particularly at plugs, sockets, and the point where it exits from the apparatus.



Unplug this apparatus during lightning storms or when unused for long periods of time. Always keep electrical equipment out of the reach of children.


















Do not expose this product to rain or moisture, never wet the inside with any liquid and never pour or spill liquids directly onto this unit. Please do not put any objects filled with liquids [e.g. vases, etc.] onto the speaker.



Use only with stands, tripods or brackets specified by the manufacturer, or sold with the apparatus. When moving the loudspeakers on a trolley, avoid injuries; take care and do not over-balance the trolley.



The speakers must be positioned on a solid surface or a stand.

-  Always use fully checked cables. Defective cables can harm your speakers. They are a common source for any kind of noise, hum, crackling etc.
-  Never use flammable or combustible chemicals for cleaning audio components.
-  Install in accordance with the manufacturer's instructions.
-  Never expose this product to extremely high or low temperatures. Never operate this product in an explosive atmosphere.
-  High SPLs may damage your hearing! Please do not get close to the loudspeakers when using them at high volumes.
-  Please note that the diaphragms emit a magnetic field. Please keep magnetically sensitive items at least 0.5 m away from the speaker.
-  Assure free airflow behind the speakers to maintain sufficient cooling by keeping a distance of at least 100 mm [4"] to the wall.
-  No naked flame sources, such as lit candles, should be placed on the speaker.
-  Do not use this apparatus near water.
-  Use a dry cloth for cleaning.
-  Do not install near any heat sources such as radiators, hot air vents, stoves, or other equipment [including amplifiers] that produces heat.
-  Do not disconnect the earth wire in an earthed plug. An earthed plug has live and neutral prongs, plus a third prong for grounding purposes which is included for your safety. If the provided plug does not fit into your socket, consult an electrician to have your socket replaced.
-  Only use attachments/accessories specified by the manufacturer.
-  S2V, S3H and S3V only: When using the wall or ceiling mount option, only mount this product onto dry and non-conducting wood/plaster panel walls. To prevent injury, this loudspeaker must be securely attached to the wall in accordance with the installation instructions of each separate mounting accessory.
-  Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, for example if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

2. WHY CHOOSE ADAM AUDIO?

For over 15 years, since its foundation in Berlin in 1999, ADAM Audio has been an internationally respected manufacturer of extremely accurate reference loudspeakers for the professional audio market. Following rapid recognition, success and growth in the early years of the 21st century, ADAM Audio now makes acclaimed products that can be found in the favorite studios of the world's finest producers, audio and mix engineers.

ADAM Audio's loudspeaker products are based on sound engineering principles and technological innovation in the skilled crafts of cabinet construction, power amplification, and driver design, including the refinement of the established folded accelerated ribbon tweeter concept into the high-performance, extremely accurate ART, X-ART and now S-ART treble drivers. The company proudly considers itself a contributor to Germany's much-admired heritage in the fields of precision tool making and advanced industrial design.

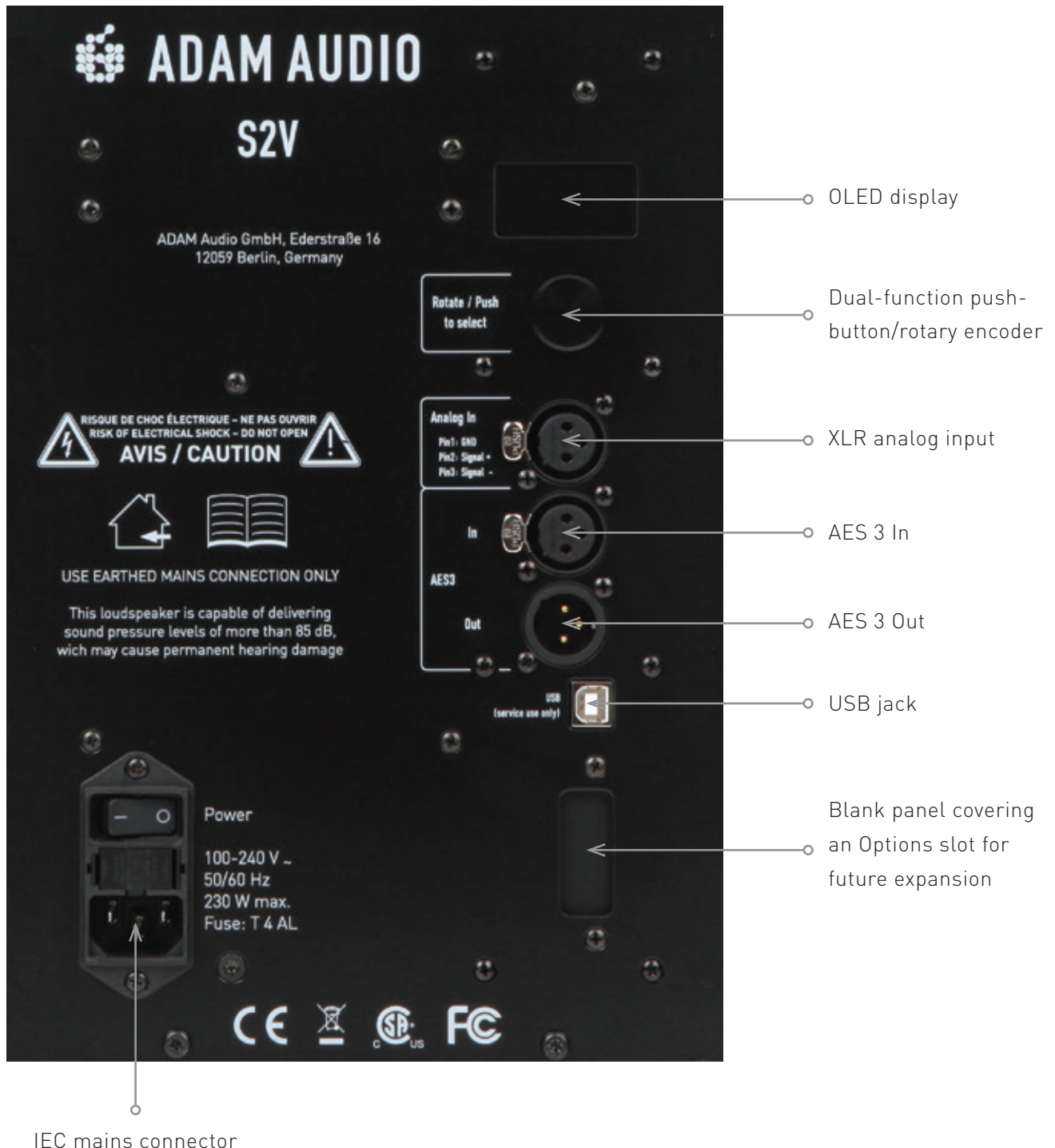
3. INTRODUCING S SERIES

The five-strong S Series, ADAM Audio's new flagship loudspeaker range, incorporates many technical innovations in the realms of electroacoustics and mechanical engineering, the results of taking the concept of the reference monitor back to the drawing board to create better products. There are totally new bass and mid-range drivers, new waveguides, and tightened manufacturing tolerances for ADAM Audio's unique high-frequency folded-ribbon driver, alongside digital connectivity and a newly developed, forward-thinking DSP engine. Even the cabinets and bass-reflex ports, which may seem familiar to existing users of ADAM Audio loudspeakers, have been completely redesigned. Custom-developed in Berlin without off-the-shelf speaker components, these are loudspeakers without compromise, offering an excellent dynamic response, extreme flexibility in operation, and a transparent, unfatiguing sound, making them essential equipment for audio professionals.

The range currently consists of the nearfield S2V, the larger S3V and S3H, and the S5V and S5H, the largest in the range. 'H' denotes a speaker designed optimally for horizontal use, 'V' the version designed for vertical use.

4. CONNECTIONS

Despite all the power and flexibility the S Series monitors have to offer, setting them up is very straightforward. The only choice you have to make is whether to drive them digitally or with a traditional analog signal. This selection is made via the rear-panel OLED display and its adjacent dual-function push-button/rotary encoder, which allow access to the S Series DSP settings [see page 11].



In addition to a standard IEC mains connector, the simple S Series rear panel features traditional AES XLR analog inputs and AES3 digital Input and Thru connectors [the latter are for multi-channel arrays where multiple speakers are being driven using the same signal]. There's also a USB jack to facilitate internal software upgrades and the use of computer-based remote setting software, and a blank panel covering an Options slot that will hold two RJ45 connectors for future expansion options.

NOTE: Always use AES/EBU-compatible, shielded twisted-pair cables for digital connections.

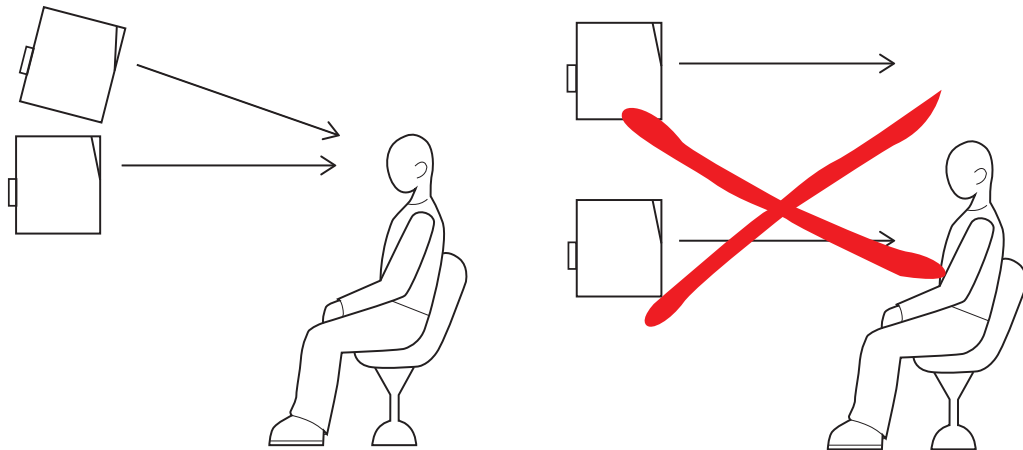
5. GETTING STARTED

Before using your new speakers, you should let them settle at the ambient temperature of your listening environment by leaving them in position for an hour or so after unpacking them. We recommend that the S Series speakers are driven on a solid, stable surface for best results. For more on optimal placement, see page 8. Please also be aware that before optimum performance can be attained, it always takes some hours of continuous usage to 'break in' factory-fresh reference monitors.

With the speakers connected to your audio source but turned off, and with the audio input to the monitors turned all the way down, the amplifiers should be connected to AC mains power via the supplied standard IEC cable. The switched-mode power amplifiers in the S Series loudspeakers can handle mains electricity from anywhere in the world, with a voltage and frequency range of 100-240 volts AC, 50/60 Hz, so you can plug the monitors in without having to worry about mains transformers or overheating. Then simply turn on the loudspeakers, start your playback audio, and gradually increase the output level of your audio source. You should now start to hear sound through your S Series speakers. If this is not the case, turn to page 19 and the section on troubleshooting.

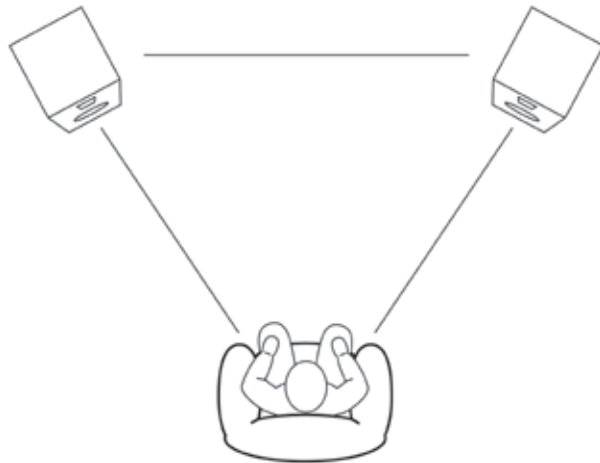
6. ACHIEVING OPTIMUM LOUDSPEAKER PLACEMENT

Assuming your room has been acoustically treated to a reasonable degree to remove the worst effects of unwanted reflections and room modes, much of loudspeaker placement is common sense, but there are a few basic points that should be followed:



- Ensure that all your speakers are level with one another in the vertical plane [except subwoofers, for which placement is much less critical], and that the tweeters are roughly level with your ears. If a speaker needs to be placed higher or lower due to spatial constraints, it should be angled accordingly, but tilts of 15 degrees or more should be avoided [see diagram]. Angles that result in reflections from your mixing console or other significant studio furniture should also be avoided.
- Make sure that nothing partially or totally obscures your monitors. You should have a clear line of sight to them; this will also guarantee that nothing comes between them and your ears.
- Place each of your monitors at least 400 mm [16 inches] from the nearest wall to minimize back reflections, which can adversely affect your chances of accurately monitoring low-frequency information. If at all possible, avoid placing loudspeakers near room corners for the same reason: with two reflective surfaces in close proximity, the chances of unwanted reflections affecting your low-frequency audio are even greater.

→ For stereo audio production, your ears should be placed as near as possible to one corner of an equilateral triangle, with the two speakers at the other corners [see below].



→ Precise idealized placements of speakers for surround audio production depend on the number of channels [and therefore speakers] you are using, and whether your audio is being produced for musical or film use. The International Telecommunication Union recommendations on ideal loudspeaker placement for a variety of audio formats and applications can be found in detail at their web site, www.itu.int. However, as general guidance and in common with stereo placement, a symmetrical listening position is recommended, with all speakers a) situated at least 400 mm [16 inches] from the nearest wall to minimize back reflections, and b) pointing as much as possible toward the listener's ears.

7. LOUDSPEAKER VOICING OVERVIEW

Once your S Series speakers are correctly positioned, you may wish to slightly adjust their frequency response to suit your personal audio preferences and specific monitoring environment. All professional studios undertake this process, often known as tuning or voicing, when they install new reference monitors; the acoustics of every room are slightly different, and even in well-constructed, acoustically treated rooms that have been custom-designed to exclude unwanted resonances, users will all have slightly differing ideas about how their speakers should optimally sound.

NOTE: Adjustments to voicing with the built-in S Series EQs should be carried out with caution, as the overall sound of your monitors in your room may be significantly affected. We recommend making small incremental adjustments and auditioning as you go with a variety of your favorite audio reference material.

The advanced DSP engine in the S Series offers a comprehensive array of voicing options. Via the rotary encoder and OLED display on the rear panel of the monitors, control is offered over overall output level, and a pair of shelving filters may be applied to the output [one for the low end, the other for the highs]. Six further fully parametric EQs with variable Q, center frequency and gain may also be dialed up via the display and encoder interface to boost or cut level at specific frequencies.

Five memories are also provided to store voicing/EQ presets. On most S Series models, two of these are non-editable factory settings. The remaining three are available to store users' own personal voicing presets. On the S3H, the situation is slightly different: the non-editable ADAM Audio factory settings occupy the first three presets, and the final two are available for user presets. The third memory, 'Classic', emulates the on-axis frequency response of what is possibly ADAM Audio's best-known monitor, the highly regarded S3A.

Of course, if you'd rather not make any voicing adjustments at all, you have the option of leaving the EQs set 'flat' by selecting the so-called 'Pure' preset – that is, to neither boost nor cut.

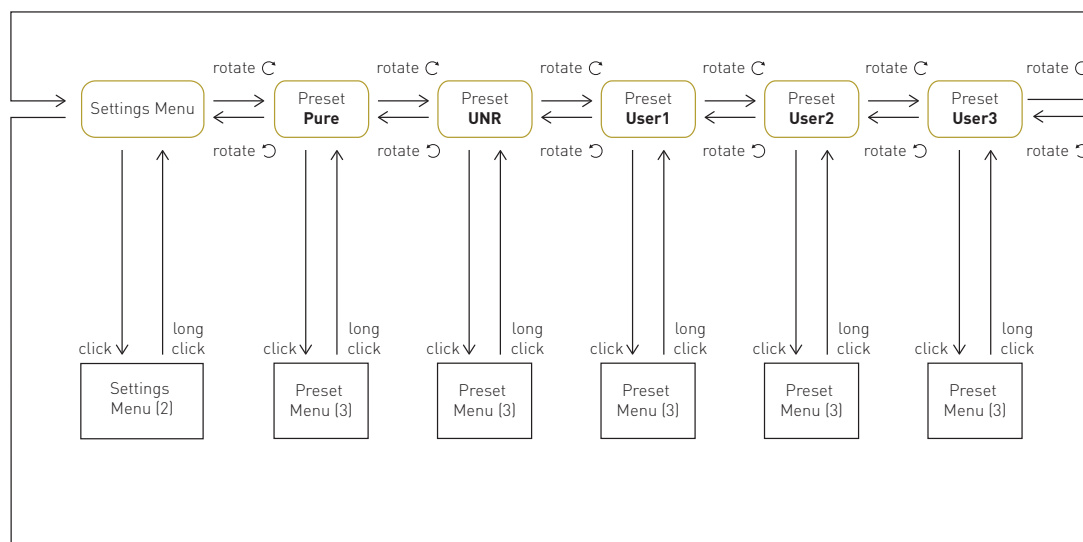
8. S SERIES DSP FUNCTIONS IN FULL

With the exception of the extra 'Classic' voicing preset in the S3H noted on the previous page, the DSP functions on all S Series models are the same. In each case, the functions are accessed from within nested menus on the rear-panel, five-line OLED display by means of the adjacent dual-function rotary encoder/button.

8.1 Navigation & Parameter Editing

Throughout the S Series DSP interface, tapping the encoder briefly moves DOWN through the menu structure [or confirms the selection of a parameter, as we will see], while clicking and holding the encoder down for more than half a second steps back UP through the nested levels.

When you turn the speakers on, the heading for a general system-wide Settings menu appears on the display. If you tap the encoder while 'Settings' is displayed, you descend into the list of individual options in the Settings menu, of which more in a moment. If you instead simply rotate the encoder while 'Settings' is displayed, you leave the Settings menu behind and step instead through the headings for the numbered voicing/EQ presets 1 to 5 [after 'Preset 5' is reached on the display, one more turn of the encoder loops you back to the 'Settings' menu heading, where you came in when the monitors were powered up]. The individual parameters for the voicing presets can be viewed [and, in the case of the user presets, edited] by descending into those presets: so to access Preset 4, you rotate the encoder until 'Preset 4' is shown on the display, and then tap the encoder to activate the preset and bring up the parameters, whose values you may then edit.

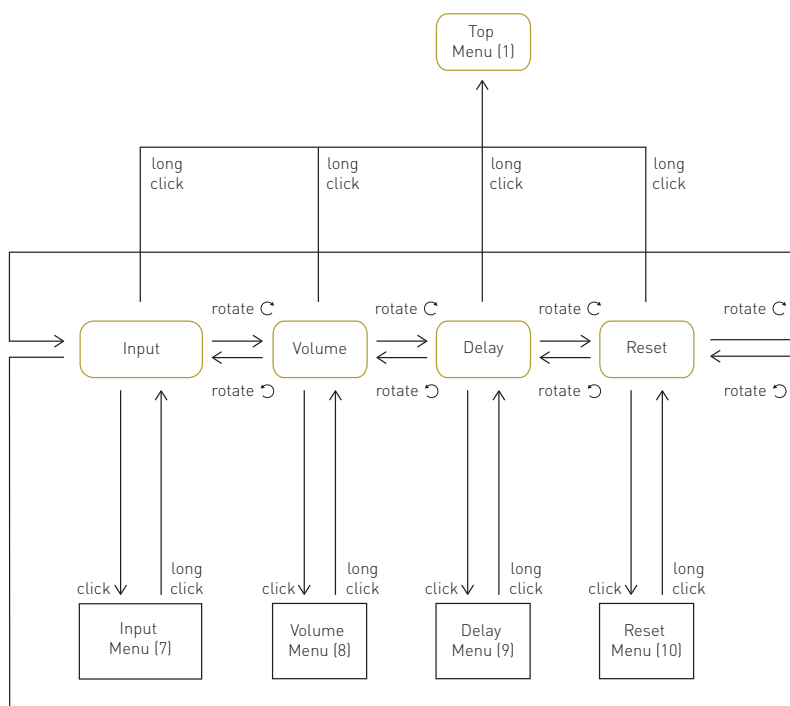


Top Menu [1]: The highest level of the S Series DSP module menus, offering access to the Settings Menu and the five EQ presets.

Throughout the DSP user interface, once you're happy with the value you've selected for a given parameter, tapping the rotary encoder one more time will store the new value. A small star will then appear briefly at the top of the display to indicate that your change has been written into memory. If before storing the new value, you press and hold the encoder for more than half a second, indicating that you want to step up out of editing the currently selected parameter, the display will show that the parameter has returned to its previously stored value. So don't forget to store your changes by briefly tapping the encoder once you've adjusted parameters to your satisfaction, and to check that the star appears at the top of the display to indicate that your changes have been stored before moving on.

8.2 Settings Menu

As explained above, tapping the rotary encoder when 'Settings' is shown in the display offers access to the most important system settings for the S Series, in the following order: Monitor input selection [i.e. analog or digital AES3], overall output Volume, and system Delay. There's also a Factory Reset option. Again, once the desired option – for example Volume – is shown in the display, tapping the encoder takes you down into the editable parameters for that option, whose values may then be changed by rotating the encoder. Sometimes, of course, there is only one editable parameter per system setting, as with Volume and Delay.

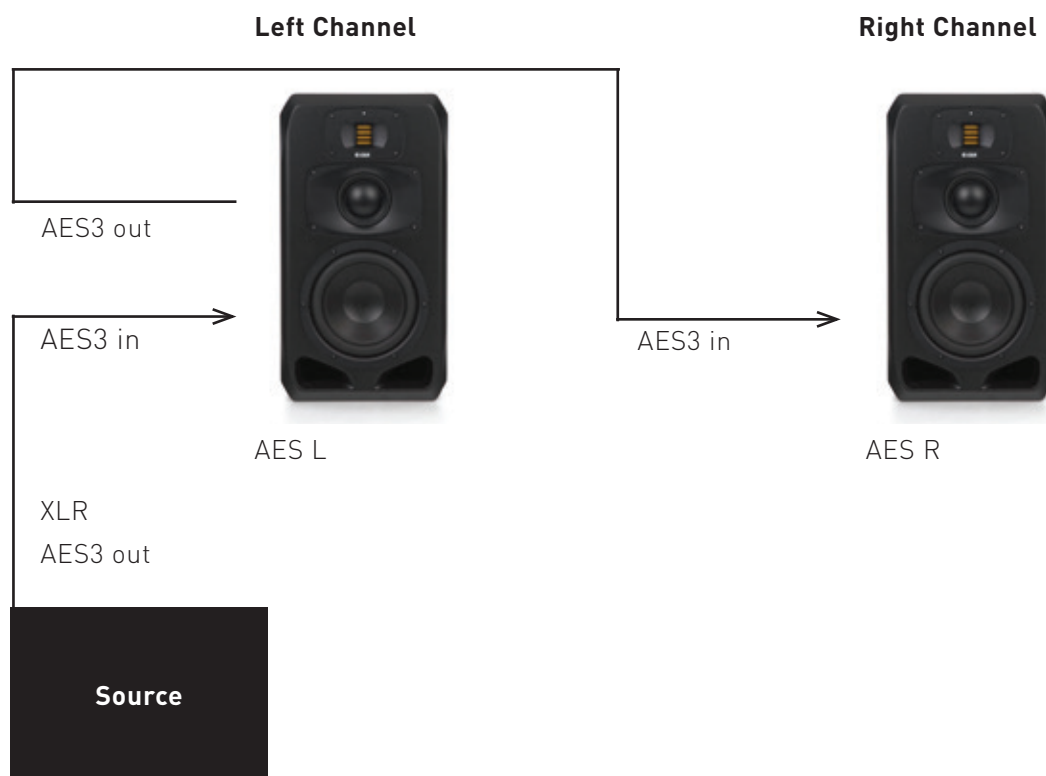


Settings Menu [2]: Input, Volume, Delay & Reset options in the Settings Menu.

Input Selection

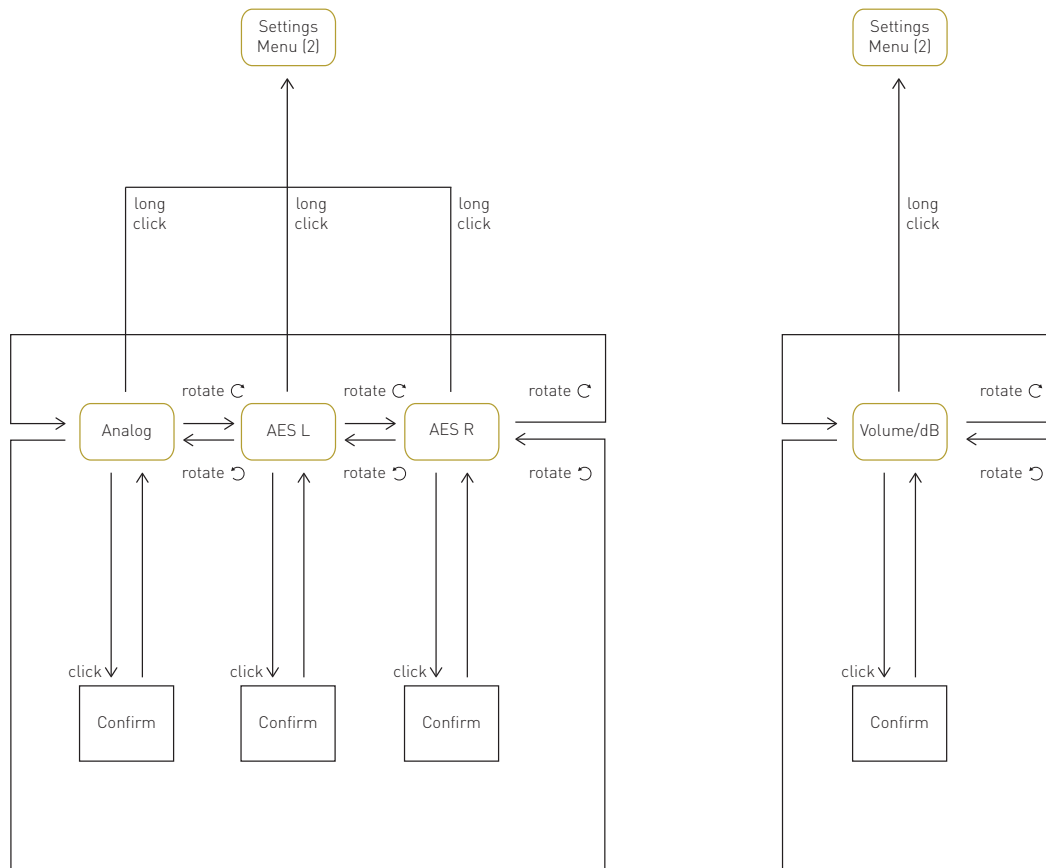
In addition to their traditional analog inputs, the S Series models all have AES3 digital inputs. This setting allows users to choose which inputs are currently active, and cycles between 'Analog' and 'AES L' and 'AES R' in the display. The latter two settings allow you to define which of your speakers is the Left and which the Right when driving them with an AES3 digital input in a 'daisy-chain' configuration [see diagram below].

AES3 Setup



Volume

The overall monitor output level is adjustable from -60 to +12 dB in 0.1 dB increments.



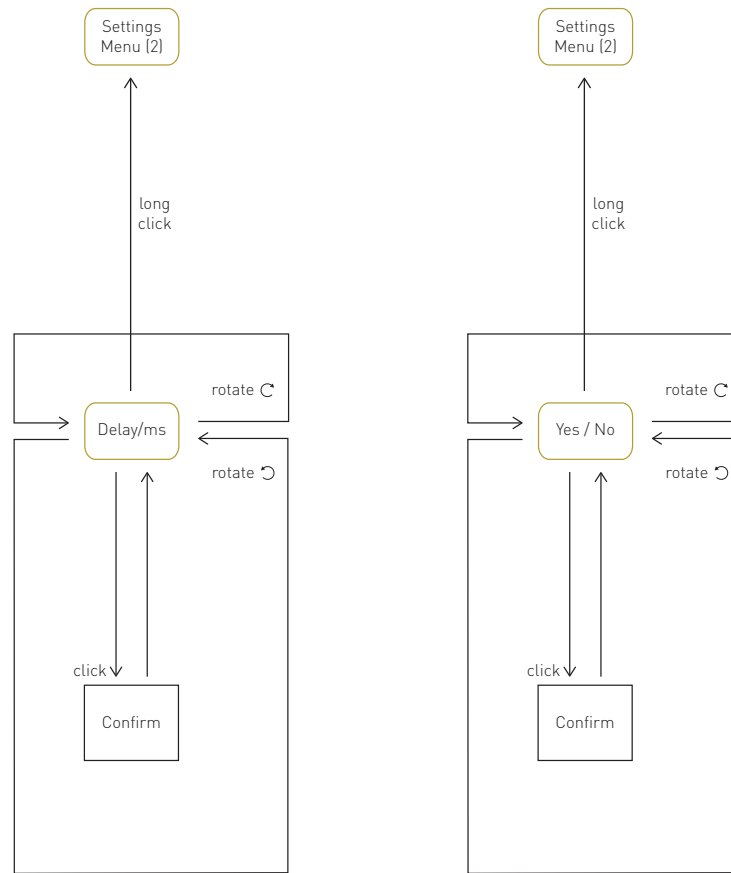
The Input Selection Menu [7, left] and Volume Menu [8, right].

Delay

Monitor output can be delayed by up to 5 milliseconds in 0.1 ms increments, which can be useful when compensating for latency and other delays in your recording and monitoring environment.

Factory Reset

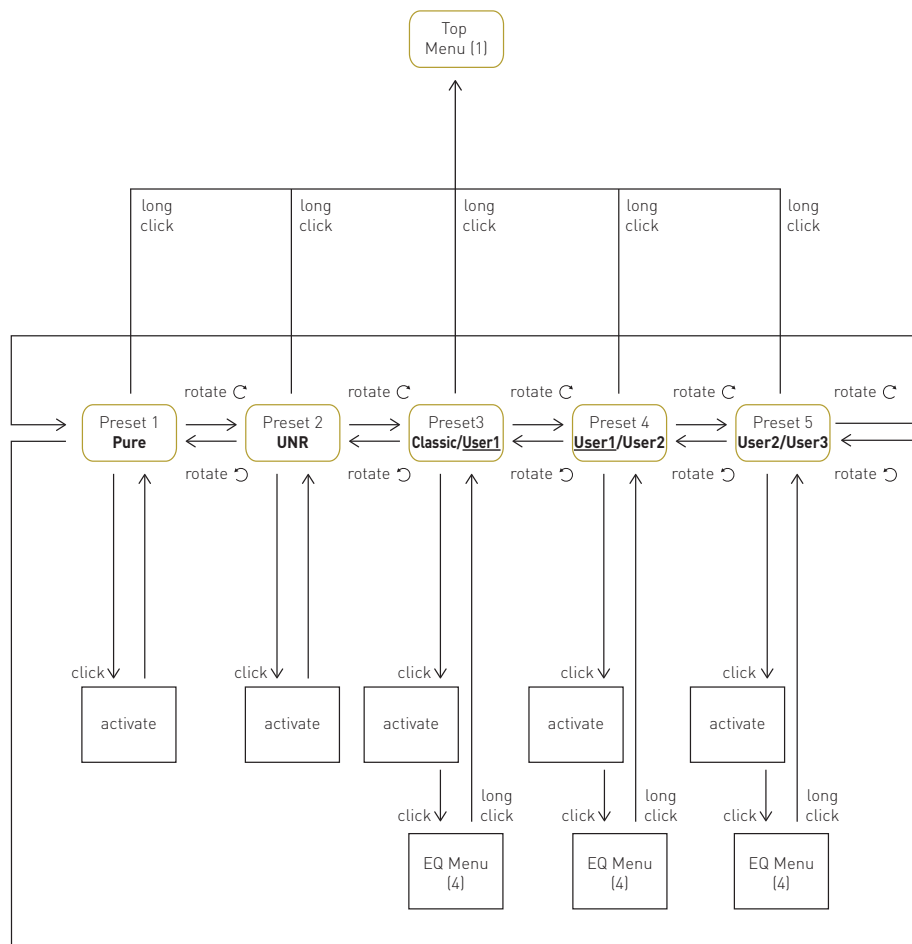
The final item in the Settings menu is a Reset option. There are just two options here, 'Yes' and 'No', and rotating the encoder cycles between them. If you tap the encoder while 'Yes' is displayed, all of the parameters in your monitor will be restored to their original factory settings.



The Delay Menu [9, left] and Reset Menu [10, right].

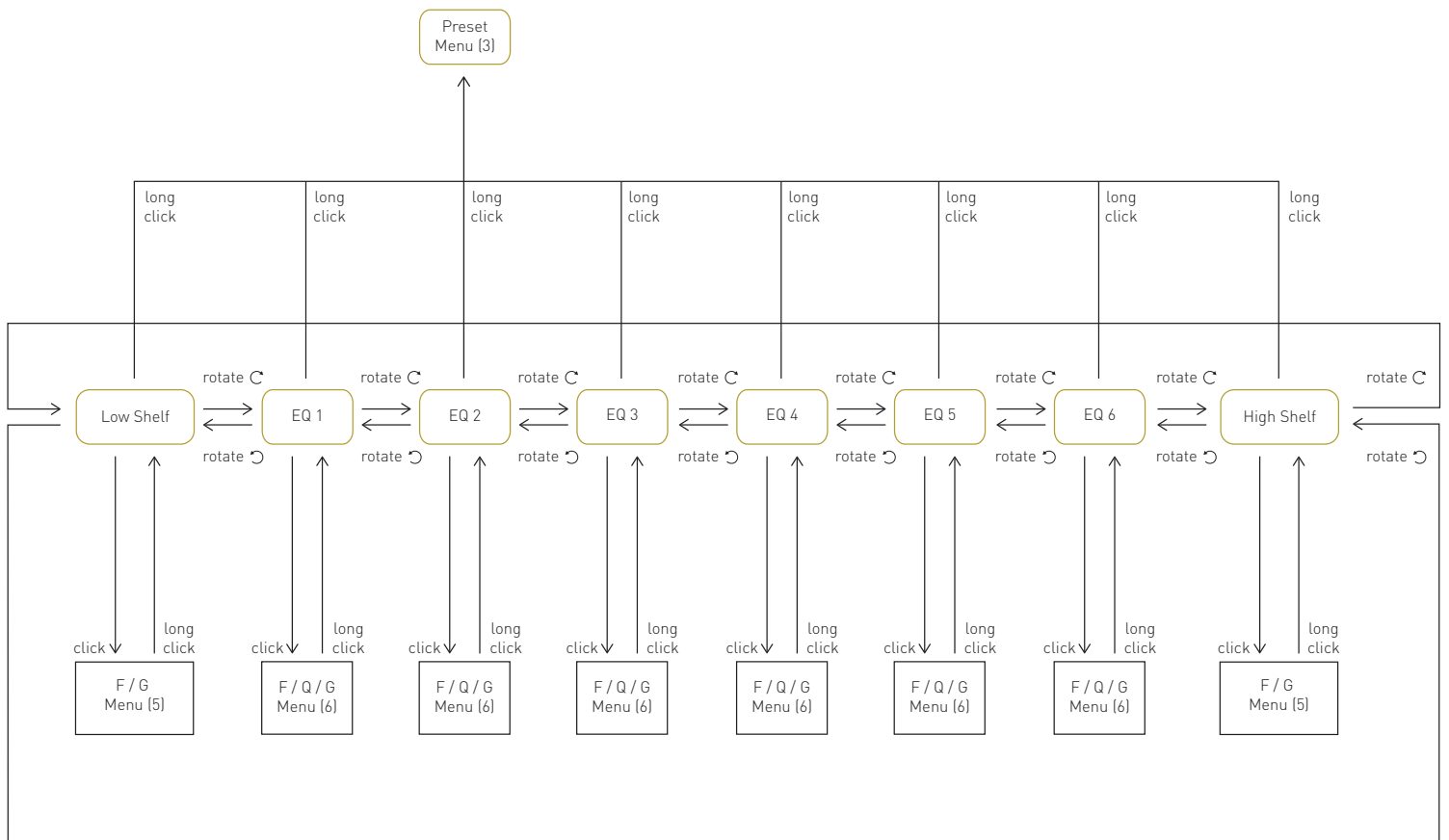
8.3 Voicing Presets

As discussed earlier, if you rotate the encoder while 'Settings' is shown on the display after power-up, you leave the Settings menu behind and step instead through your monitor's five voicing presets. As explained on page 11, on all S Series models, the first two of these are factory presets: the first, 'Pure' is the highly accurate ADAM Audio factory response. The second, entitled 'UNR' [Uniform Natural Response™] is a dynamic, natural-sounding response curve of ADAM Audio's own design. On the S3H, as already noted, the third preset emulates the response of the classic ADAM S3A monitor, while the final two memories are entirely user-editable. On the S Series models other than the S3H, the final three memories are all user-editable.

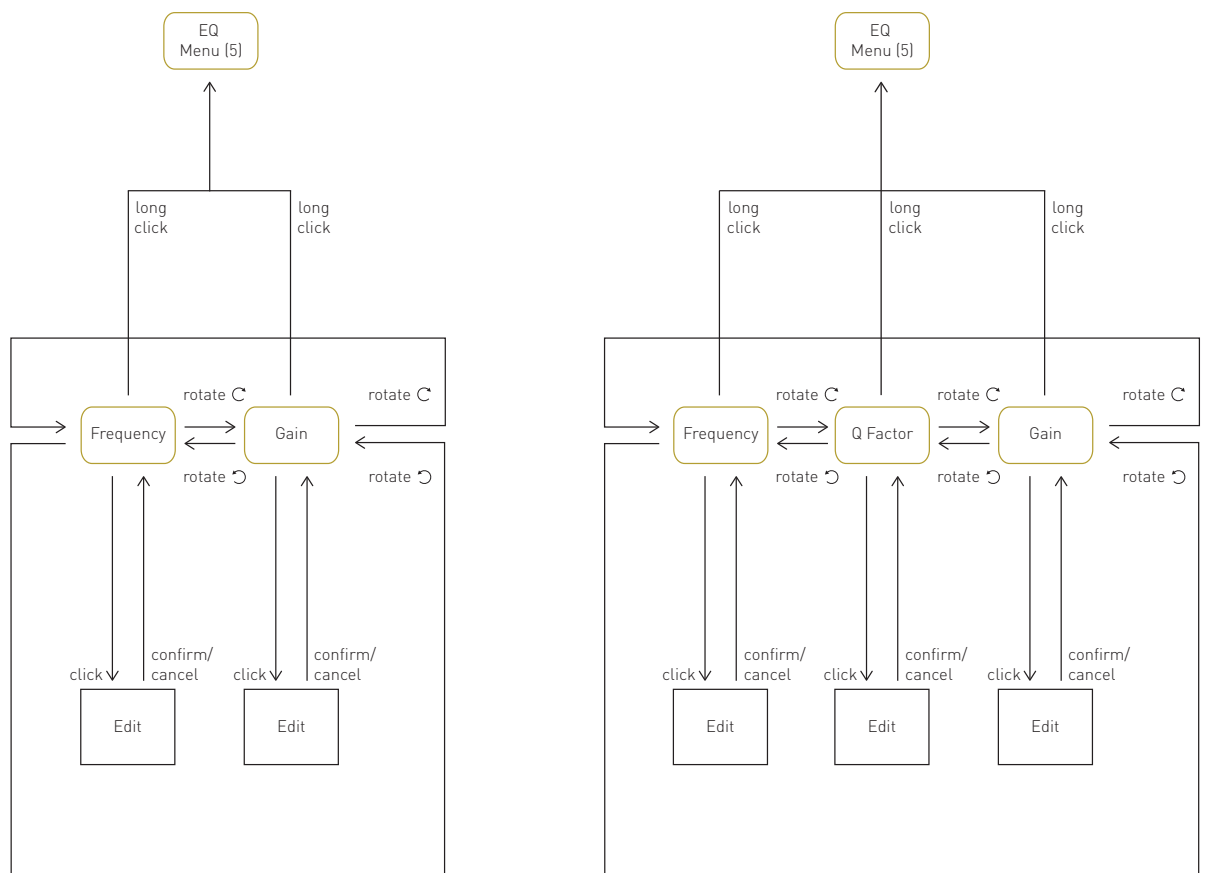


Preset Menu [3]: The EQ Preset selection menu. Note that Preset 3 is the S3A-emulating 'Classic' preset on the S3H, but is User Preset 1 on all the other S Series models.

When one of the user presets is shown in the display, tapping the encoder activates that preset. A second tap on the encoder accesses the next menu layer down, where the specific EQ settings for that preset may be adjusted. Rotating the encoder at this level brings up the low shelving filter, then each of the six parametric EQs in turn [logically numbered EQ 1, EQ 2 and so on], and finally the high shelving filter. Selecting one of these filters takes you down to the lowest levels of the menu interface, where the individual parameters for each filter can be changed. Selecting one of the shelving filters leads to options for corner frequency in Hz and a Gain [Boost or Cut] setting, calibrated from -12 to +12 dB in 0.5 dB increments. Of course, when you select one of the six parametric EQs, there is also a Q [bandwidth] setting in addition to the turnover frequency and Gain settings. As always, once these parameters have been set to your satisfaction, pressing the rotary encoder stores the selected settings [accompanied by the brief appearance of the star at the top of the display], while pressing and holding the encoder down for a short time moves you back up one level in the menu structure.



EQ Menu [4]: This is where users access the two shelving and six parametric EQs. On this diagram, F = Frequency, G = Gain and Q = Q Factor on the parametric EQs.



Schematics for the Shelving EQ Menu [5, left] and Parametric EQ Menu [6, right]

Finally, it's worth noting that you don't have to physically adjust all of these DSP settings from the back panel of your monitors. The USB connection next to the monitor inputs allows you to connect your S Series monitors to a Mac or PC and make changes to your speaker settings via editing software available for download from the ADAM Audio website [www.adam-audio.com]. This option is particularly handy for users who wish to soffit-mount their S Series monitors; these users will not usually have access to the rear panel of their monitors.

9. TROUBLESHOOTING

Should you experience problems with your monitors, for example loss of signal, unwanted interference or noise, it's worth running through the following basic checks before contacting the team here at ADAM Audio or our local representatives.

→ In the event that your speakers are producing no signal, or only a distorted signal:

- a] Consider where the problem is. If all of your speakers are exhibiting the same lack of signal or distorted signal, it's more likely that the problem lies with the audio source. If, on the other hand, only a single loudspeaker is affected, the problem is more likely to lie with that specific speaker.
- b] Check your wiring and cables, if possible swapping them for others that you know are working without any problems. If you only have a pair of cables, see if the fault changes speakers when you swap the cables over. If so, the problem is likely to be found in the cable.
- c] Check your signal source, connecting the speakers as directly as possible to the source. Could the fault lie with another component, for example a mixer or processor which is usually connected before the speakers in the signal path?

→ In the event that your speakers are producing a signal, but it is affected by occasional unwanted noise, such as buzzing, humming or crackling:

- a] Check cables, as above, swapping them or replacing them where possible, and see if the fault is also affected.
- b] Check that there are no sources of electromagnetic interference close to the speakers that could be causing problems [mobile phones, wireless routers, power supplies, electrical motors or heaters, and so on].

If none of the above can be identified as the source of the problem, your speakers may be defective, in which case contact ADAM Audio or the local representative/distributor [see www.adam-audio.com for a list].

10. MAINTENANCE

- Please switch off your monitors before cleaning them.
- Please be aware that the speaker drivers generate a significant electromagnetic field. Magnetically sensitive items should be kept at a distance of at least half a meter [20 inches].
- Please ensure that no liquids enter the cabinet. Wet cloths should not be used for cleaning, and cleaning fluids should not be sprayed near the loudspeakers.
- Flammable or acidic chemicals should not be used for cleaning either.
- If at all possible, do not touch the loudspeaker cones [they may be dusted lightly, using a very soft brush].
- We recommend a lint-free, damp [not wet] cloth for general cleaning.

11. SHIPPING

We recommend that you keep your loudspeaker packaging if at all possible, in case your monitors ever need to be sent for repair. It is extremely difficult to protect your loudspeakers so that they can be shipped without damage if the original packaging is not available. We cannot accept responsibility for damages arising due to improper packaging being used when the loudspeakers are in transit.

12. ENVIRONMENTAL INFORMATION

All ADAM Audio products comply with international directives on the Restriction of Hazardous Substances [RoHS] in electrical/electronic equipment and the disposal of Waste Electrical/Electronic Equipment [WEEE].

We hope you won't be throwing your S Series speakers away for many years – but when the time eventually comes, please consult your local authorities for further information on how to safely dispose of them.

13. EU DECLARATION OF CONFORMITY

We, **ADAM Audio GmbH** whose registered office is situated at Rudower Chaussee 50, 12489 Berlin, Germany declare under our sole responsibility that the products: **S2V, S3H, S3V, S5H, S5V** comply with the EU Electro-Magnetic Compatibility [EMC] Directive 89/336/EEC, in pursuance of which the following standards have been applied:

EN 55032 incl. EN 61000-3-2/3, EN 55103-2



and complies with the EU General Product Safety 2001/95/EC, in pursuance of which the following standard has been applied: DIN EN60065 7th.ED/A1/A2

This declaration attests that the manufacturing process quality control and product documentation accord with the need to assure continued compliance. The attention of the user is drawn to any special measures regarding the use of this equipment that may be detailed in the owner's manual.

Christian Hellinger
Managing Director ADAM Audio GmbH

14. WARRANTY TERMS

- This warranty complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.
- Neither other transportation, nor any other costs, nor any risk for removal, transportation and installation of products is covered by this warranty.
- Products whose serial number have been altered, deleted, removed or made illegible are excluded from this warranty.
- The regular warranty lasts two years and is valid from the date of purchase. For a product registration via www.adam-audio.com/en/my-adam/, the beneficiary is given an additional three-year guarantee [36 months] on the registered products.
- The warranty will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable:
 - a] for damages caused by incorrect installation, connection or packing,
 - b] for damages caused by any use other than correct use described in the user manual,
 - c] for damages caused by faulty or unsuitable ancillary equipment,
 - d] if repairs or modifications have been executed by an unauthorized person,
 - e] for damages caused by accidents, lightning, water, fire heat, public disturbances or any other cause beyond the reasonable control of ADAM Audio.

How To Claim Repairs Under Warranty

Should service be required, please contact the ADAM Audio dealer where the product was purchased.

If the equipment is being used outside the country of purchase, the international shipping costs have to be paid for by the owner of the product.

Service may be supplied by your ADAM Audio national distributor in the country of residence. In this case, the service costs have to be paid for by the owner of the product, whereas the costs for parts to be repaired or replaced are free of charge. Please visit our website at www.adam-audio.com to obtain the contact details for your local distributor.

To validate your warranty, you will need a copy of your original sales invoice with the date of purchase.

15. TECHNICAL DATA

	S2V	S3V	S3H	S5V	S5H
ELE™-Woofer					
Quantity	1	1	2	1	2
Diameter	182 mm [7"]	223 mm [9"]	182 mm [7"]	320 mm [12"]	223 mm [10"]
Voice coil OD	39 mm [1.5"]	50 mm [2"]	39 mm [1.5"]	76 mm [3"]	76 mm [3"]
Diaphragm material	Hexacone	Hexacone	Hexacone	Hexacone	Hexacone
DCH™ Mid-range					
Quantity		1	1	1	1
Diameter		100 mm [4"]	100 mm [4"]	100 mm [4"]	100 mm [4"]
Voice coil OD		60 mm [2.4"]	60 mm [2.4"]	60 mm [2.4"]	60 mm [2.4"]
Diaphragm material		Carbon-Composite	Carbon-Composite	Carbon-Composite	Carbon-Composite
Tweeter					
Quantity	1	1	1	1	1
Type	S-ART	S-ART	S-ART	S-ART	S-ART
Radiating area	4 in² [2420 mm²]	4 in² [2420 mm²]	4 in² [2420 mm²]	4 in² [2420 mm²]	4 in² [2420 mm²]
Corresponding dome area	56 mm [2.2"]	56 mm [2.2"]	56 mm [2.2"]	56 mm [2.2"]	56 mm [2.2"]
Transformation factor	4:1	4:1	4:1	4:1	4:1
Moving mass	0.17 g	0.17 g	0.17 g	0.17 g	0.17 g
Built-In Amplifiers					
Woofer	1	1	2	1	1
Type	Class D	Class D	Class D	Class D	Class D
Output power	300 W	500 W	500 W [x2]	700 W	700 W
Mid-range		1	1	1	1
Type		Class D	Class D	Class D	Class D
Output power		300 W	300 W	300 W	300 W
Tweeter	1	1	1	1	1
Type	Class A/B	Class A/B	Class A/B	Class D	Class D
Output power	50 W	50 W	50 W	100 W	100 W

S2V	S3V	S3H	S5V	S5H
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Control Options					
Input sensitivity	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
EQ parametric	6x	6x	6x	6x	6x
High-shelf room compensation EQ	1x	1x	1x	1x	1x
Low-shelf room compensation EQ	1x	1x	1x	1x	1x
Preset memories	5x	5x	5x	5x	5x
Delay	0 – 5 ms	0 – 5 ms	0 – 5 ms	0 – 5 ms	0 – 5 ms
Input Connectors					
Analog input	XLR	XLR	XLR	XLR	XLR
Input impedance	48 kΩ	48 kΩ	48 kΩ	48 kΩ	48 kΩ
Max. input level	+24 dBu	+24 dBu	+24 dBu	+24 dBu	+24 dBu
Digital input	AES3	AES3	AES3	AES3	AES3
General Data					
Frequency response	35 Hz – 50 kHz	32 Hz – 50 kHz	30 Hz – 50 kHz	25 Hz – 50 kHz	22 Hz – 50 kHz
THD > 100 Hz	< 0,4%	< 0,4%	< 0,4%	< 0,3%	< 0,3%
Max peak SPL at 1m per pair	≥ 120 dB	≥ 124 dB	≥ 126 dB	≥ 128 dB	≥ 131 dB
X-over frequency	3 kHz	250 Hz / 3 kHz	250 Hz / 3 kHz	250 Hz / 3 kHz	250 Hz / 3 kHz
Weight	11.0 kg / 24.2 lb	25.0 kg / 55.0 lb	26.6 kg / 58.6 lb	52 kg / 114.5 lb	72.6 kg / 160 lb
Dimensions height x width x depth	346 x 222 x 338 mm 13.6 x 8.7 x 13.3 "	536 x 293 x 380 mm 21.1 x 11.5 x 15.0 "	280 x 585 x 380 mm 11.0 x 23.0 x 15.0 "	698 x 390 x 520 mm 27.5 x 15.4 x 20.5 "	430 x 885 x 500 mm 16.9 x 34.8 x 19.7 "

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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