

Soundcraft<sup>®</sup>  
by HARMAN

***MINI STAGEBOX 32i***

**User & Installation Guide**



## **IMPORTANT**

**Please read this manual carefully before using  
your unit for the first time.**

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Harman International Industries Limited

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# INTRODUCTION

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## SAFETY NOTICES

For updated safety and certification information, go to: <http://www.soundcraft.com/safetyandcertifications>.

FOR YOUR OWN SAFETY AND TO AVOID INVALIDATION OF THE WARRANTY PLEASE READ THIS SECTION CAREFULLY.

## SAFETY SYMBOL GUIDE

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For your own safety and to avoid invalidation of the warranty all text marked with these symbols should be read carefully.

### WARNINGS



The lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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### CAUTIONS



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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### NOTES



These notes contain important information and useful tips on the operation of your equipment.

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### HEADPHONES SAFETY WARNING



These notes contain important information and useful tips on headphone outputs and monitoring levels.

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### ESD WARNING



The crossed-out hand symbol is intended to alert the user to devices sensitive to electrostatic discharge. Please refer to the instructions on page 6.

## IMPORTANT SAFETY WARNINGS

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**THIS APPARATUS MUST BE EARTHED.** Under no circumstances should the safety earth be disconnected from the mains lead.

The mains supply disconnect device is the mains plug. It must remain accessible so as to be readily operable when the apparatus is in use.

If any part of the mains cord set is damaged, the complete cord set should be replaced. The following information is for reference only.


The wires in the mains lead are coloured in accordance with the following code:

Earth (Ground): Green and Yellow (US - Green/Yellow)

Neutral: Blue (US - White)

Live (Hot): Brown (US - Black)

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol. 

The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N.

The wire which is coloured Brown must be connected to the terminal in the plug which is marked with the letter L.

Ensure that these colour codes are followed carefully in the event of the plug being changed.

This unit is capable of operating over a range of mains voltages as marked on the rear panel.

**The internal power supply unit contains no user serviceable parts. Refer all servicing to a qualified service engineer, through the appropriate Soundcraft dealer.**

## ELECTROSTATIC DISCHARGE (ESD)

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Many semiconductor components are sensitive to electrostatic discharge (ESD). The lifespan of assemblies containing such components can be drastically reduced by improper handling during maintenance and repair. Please observe the following rules when handling ESD sensitive components:

- ESD sensitive components should only be stored and transported in the packing material specifically provided for this purpose.
- When performing a repair by replacing complete assemblies, the removed assembly must be sent back to the supplier in the same packing material in which the replacement assembly was shipped. If this should not be the case, any claim for a possible refund will be null and void.
- Unpacked ESD sensitive components should only be handled in ESD protected areas (EPA, e.g. area for field service, repair or service bench) and only be touched by persons wearing a wrist band connected to the ground potential of the repair or service bench by a series resistor. The equipment to be repaired or serviced as well as all tools and electrically semi-conducting work, storage, and floor mats should also be connected to this ground potential.
- The terminals of ESD sensitive components must not come in uncontrolled contact with electrostatically chargeable or metallic surfaces that would result in a puncture voltage and a discharge shock hazard.
- To prevent the components from undefined transient stress and possible damage due to inadmissible voltages or compensation currents, electrical connections should only be established or separated when the equipment is switched off and after any capacitor charges have decayed.

## IMPORTANT SAFETY INSTRUCTIONS

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Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with a dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of a polarised or grounding type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**NOTE: It is recommended that all maintenance and service on the product should be carried out by Soundcraft or its authorised agents. Soundcraft cannot accept any liability whatsoever for any loss or damage caused by service, maintenance or repair by unauthorised personnel.**



**WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not expose the apparatus to dripping or splashing and do not place objects filled with liquids, such as vases, on the apparatus. No naked flame sources, such as lighted candles, should be placed on the apparatus.**

**Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths, curtains etc.**

## WORKING SAFELY WITH SOUND

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Although your new unit will not make any noise until you feed it signals, it has the capability to produce sounds which when monitored through a PA system or headphones can damage hearing over time.

The table below is taken from the US Department of Labor directive on occupational noise exposure (1926.52):

### PERMISSIBLE NOISE EXPOSURE

DURATION PER DAY, HOURS	SOUND LEVEL dBA SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.5	110
<0.25	115

Conforming to this directive will minimise the risk of hearing damage caused by long listening periods. A simple rule to follow is – the longer you listen, the lower the average volume should be.

Please take care when working with your audio. If you are manipulating controls which you don't understand (which we all do when we are learning), make sure your monitors are turned down.

Most importantly – don't be afraid to experiment to find out how each parameter affects the sound – this will extend your creativity and help you to get the best results.

Recommended headphone impedance is 50-600 ohms.



## FEATURES

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The Mini Stagebox 32i is ideal for expanding the I/O capabilities of any of the Vi or Si range of Soundcraft consoles regardless of whether that I/O is needed locally or at a distance.

The Soundcraft Mini Stagebox 32i requires only 3U of rack space, and in this tiny footprint, provides 32 recallable mic/line inputs and 12 balanced line outputs, all lifted directly from the Soundcraft console family.

The Mini Stagebox 32i is connected to a host console using a CAT5 cable and RJ45 connectors. Using two cables to a single console offers redundant MADl capability when the mode switch is set to "RED".

Audio can be supplied to two different consoles by using the Main and Aux connections simultaneously. In this instance, one console should be nominated to have control of the Mic input gains and phantom power. Set the switch to Main or Aux according to which console you have selected to have control.

The efficient design of the Mini Stagebox 32i negates the need for a fan making it ideal for applications where silent operation is critical.

## MINI STAGEBOX 32i FRONT PANEL



1. MIC/LINE IN 1-16
2. MIC LINE IN 17-32
3. LINE OUT 1-12
4. MADI CONNECTIONS
5. POWER INDICATORS

## MINI STAGEBOX 32i REAR PANEL



1. AC INLET

## **MOUNTING MINI STAGEBOX 32i**

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When installed in a 19" rack mount ensure all four mounting holes are used.

If mounted with other equipment that may get hot it is recommended to leave a 1U gap between the equipment.

In all scenarios, the air vents must not be obstructed. The Mini Stagebox 32i must not be mounted in a fully sealed enclosure.

## **MADI LINK CONNECTIONS**

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The Mini Stagebox 32i RJ45 connections provide digital audio and control connections to the console through Cat-5 MADI links.

The corresponding MADI card connections in Soundcraft consoles transmit the clock for the Mini Stagebox 32i through the MADI stream.

Each card on Si Consoles can only control a single Mini Stagebox mic pre's functionality.

The second (AUX) connector can be used to provide a redundant connection to the console, or to connect to a second console. The MAIN/AUX switch changes the mode of the mic preamp control and redundancy setting.

- When the switch is set to "MAIN", the console connected to the MAIN port will have the mic preamp control.
- When the the switch is set to "AUX" the console connected to the AUX port will have the mic preamp control.
- When the switch is set to "REDUNDANT" the console will operate in REDUNDANT mode.



The MADI mode light indicates its clock status with the 'LOCK' LED.

**It is possible to connect two different consoles to the MAIN and AUX ports, and provide a split of the mic inputs to the two consoles. However, be aware of which console has control of the preamp gains and is able to send signals to the Mini Stagebox 32i outputs.**

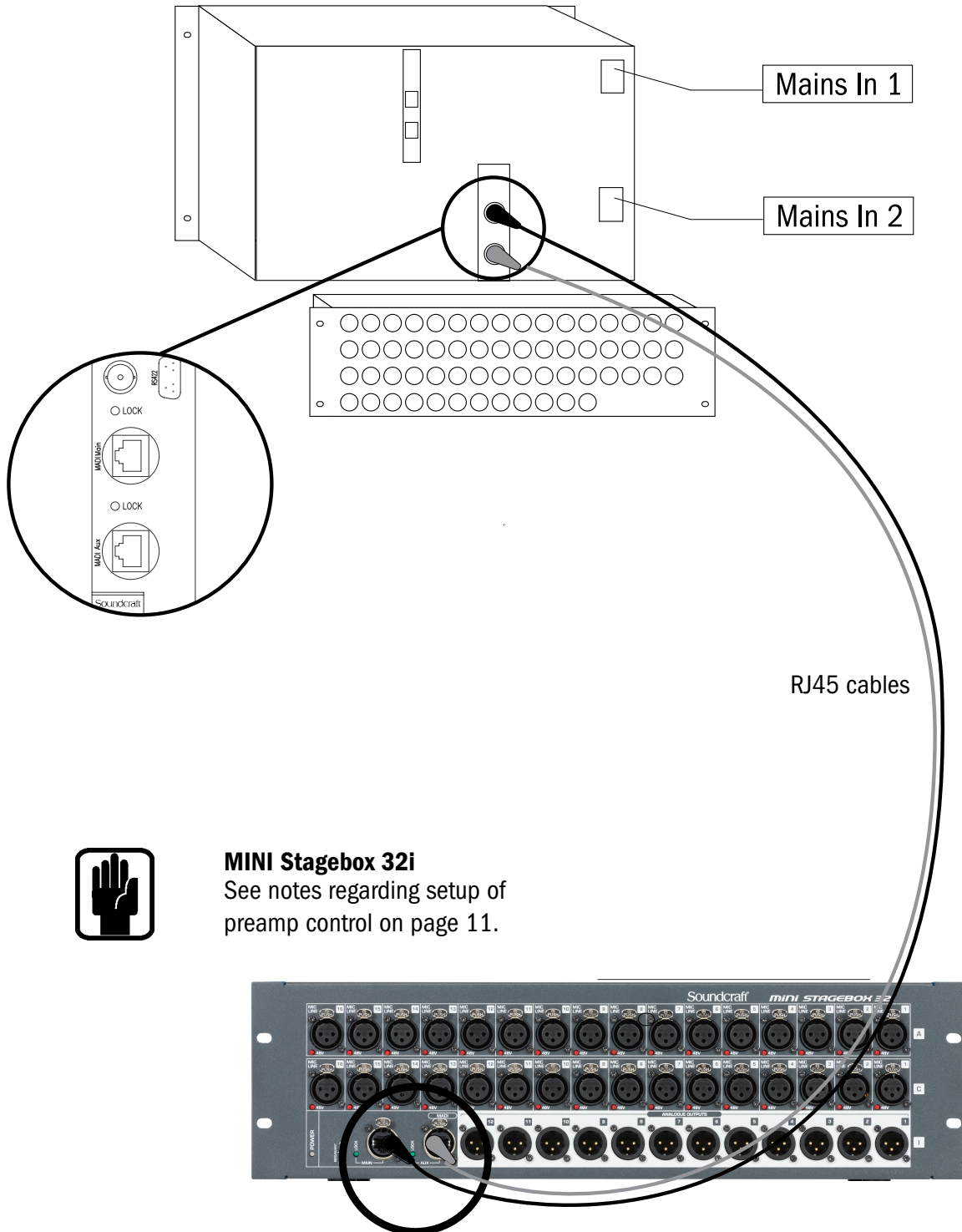
**The main console is determined by the Main/Aux/Redundant switch.**

## CONNECTING IT UP

### MINI Stagebox 32i Connecting to VI-Range Consoles Note:

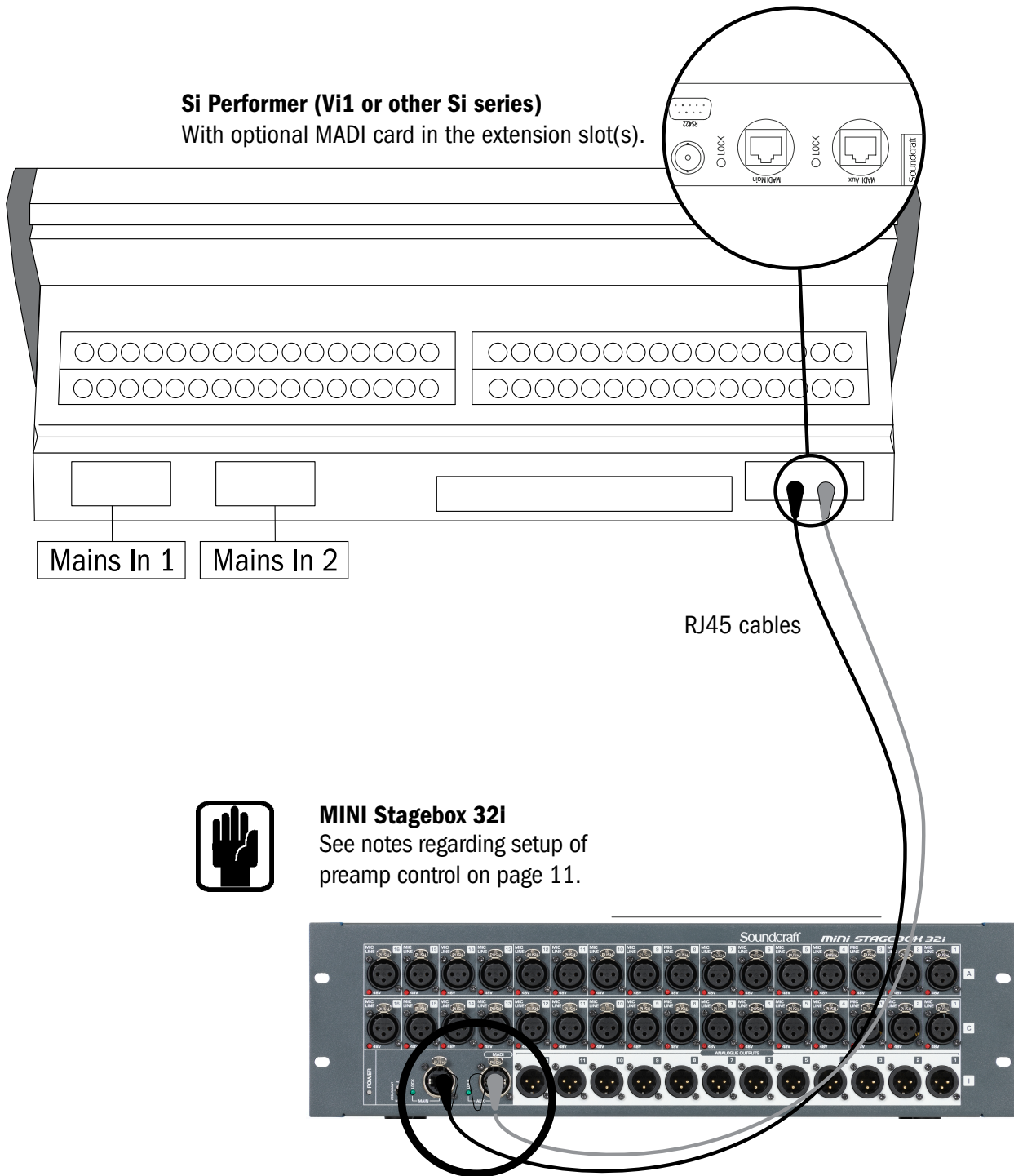
Connections from the local rack to the Mini Stagebox 32i may vary depending on actual flight case and breakout panel options.

#### Local Rack



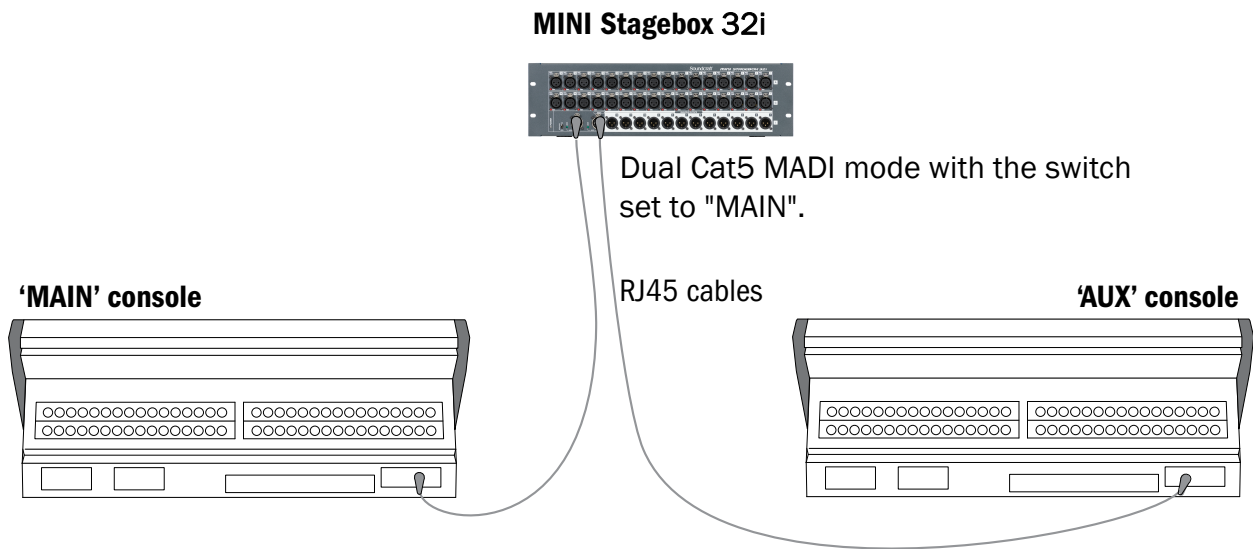
## MINI STAGEBOX 32i CONNECTING TO Si OR Vi1 CONSOLES

- Connections from the console to the MINI Stagebox 32i may vary depending on actual flight case and breakout panel options.



## MINI STAGEBOX CONNECTING TO TWO CONSOLES

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This console will control preamp gain and will be able to access the Mini Stagebox outputs.

# MINI STAGEBOX 32i TYPICAL SPECIFICATIONS

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## Frequency Response

Signal path: Stagebox Mic input to Stagebox line output, 4dBu input signal, 4dB input Mic gain. 20Hz – 20kHz

+0.5dB /- 0.5dB

## THD & Noise

Signal path: Stagebox Mic In (at minimum gain, -5dB) to Stagebox Line Output.

Measurement is taken with 8dBu, 1kHz input signal, 20Hz – 20kHz filters applied, unweighted.

0.004%

Signal path: Mic In with 50dB gain to Stagebox Line Output

Measurement is taken with -40dBu, 1kHz input signal 20Hz – 20kHz filters, unweighted.

<0.02%

## THD Only

Signal path: Stagebox Mic In (at minimum gain, -5dB) to Stagebox Line Output.

Measurement is taken with 8dBu, 1kHz input signal, 20Hz – 20kHz filters applied, unweighted.

0.002%

Signal path: Mic In with 50dB gain to Stagebox Line Output

Measurement is taken with -40dBu, 1kHz input signal 20Hz – 20kHz filters, unweighted.

<0.015%

## Mic Input E.I.N.

Mic input is fitted with 150 Ohm Termination jack. Signal is routed to console AES output.

Measurement is taken with 22Hz – 22kHz bandwidth, unweighted.

Input signal of -40dBu.

Max Gain = (Output level (dBFS) + clip point in dBu) – Input level (dBu))

E.I.N = Max Gain – (noise floor(dBFS) + clip point in dBu)

126dBu

## Residual Noise (Noise floor)

Master output; no inputs routed, Mix fader @0dB

<-87dBu

## Crosstalk

10dB input gain, -22dBu 10kHz input signal, Adjacent channels

<-80dB

## Digital Format

Sampling Frequency 48kHz

Converter Resolution 24 bit

## Latency

MSB In -> Mixer -> MSB Out

1.5ms

## Internal Clock

Accuracy

+25ppm

## Input & Output Levels

Mic inputs

23.5dBu max

Bus Outputs

21.5dBu max

Nominal Operating Level

0dBu (-22dBFs)

## Mains Voltage Operating Range

90-264VAC, 47-63Hz

## Mains Power Consumption

50W

## Temperature/Humidity Range

Operating Temperature Range

0 to +50 C

Relative Humidity

0 to 90%

Storage temperature range

-10 to +50 C



## WARRANTY

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- 1 Soundcraft is a trading division of Harman International Industries Ltd.  
End User means the person who first puts the equipment into regular operation.  
Dealer means the person other than Soundcraft (if any) from whom the End User purchased the Equipment, provided such a person is authorised for this purpose by Soundcraft or its accredited Distributor.  
Equipment means the equipment supplied with this manual.

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  - 2 If within the period of 36 months from the date of delivery of the Equipment to the End User it shall prove defective by reason only of faulty materials and/or workmanship to such an extent that the effectiveness and/or usability thereof is materially affected the Equipment or the defective component should be returned to the Dealer or to Soundcraft and subject to the following conditions the Dealer or Soundcraft will repair or replace the defective components. Any components replaced will become the property of Soundcraft.

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  - 3 Any Equipment or component returned will be at the risk of the End User whilst in transit (both to and from the Dealer or Soundcraft) and postage must be prepaid.

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  - 4 This warranty shall only be valid if:
    - a) the Equipment has been properly installed in accordance with instructions contained in Soundcraft's manual; and
    - b) the End User has notified Soundcraft or the Dealer within 14 days of the defect appearing; and
    - c) no persons other than authorised representatives of Soundcraft or the Dealer have effected any replacement of parts, maintenance adjustments or repairs to the Equipment; and
    - d) the End User has used the Equipment only for such purposes as Soundcraft recommends, with only such operating supplies as meet Soundcraft's specifications and otherwise in all respects in accordance with Soundcraft's recommendations.

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  - 5 Defects arising as a result of the following are not covered by this Warranty: faulty or negligent handling, chemical or electro-chemical or electrical influences, accidental damage, Acts of God, neglect, deficiency in electrical power, air-conditioning or humidity control.

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  - 6 The benefit of this Warranty may not be assigned by the End User.

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  - 7 End Users who are consumers should note their rights under this Warranty are in addition to and do not affect any other rights to which they may be entitled against the seller of the Equipment.
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### PRODUCTS UNDER WARRANTY

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UK customers should contact their local dealer.

Customers outside the UK are requested to contact their territorial distributor who is able to offer support in the local time zone and language. Please see the distributor listings on our website ([www.soundcraft.com](http://www.soundcraft.com)) to locate your local distributor.

### OUT-OF-WARRANTY PRODUCTS

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For all out-of-warranty services, please contact the appropriate territorial distributor.

When mailing or faxing please remember to give as much information as possible. This should include your name, address and a daytime telephone number. Should you experience any difficulty please contact Customer Services Department (e-mail: [soundcraft.csd@harman.com](mailto:soundcraft.csd@harman.com)).

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