

Signature Series

Maximum Resilience Broadcast Audio



Signature HA6+ Six Stereo Headphone Amplifiers



HA6+ Front



HA6+ Rear

FEATURES

**6 x headphone
amplifiers**

**2 x stereo
inputs with separate
source mix controls**

**Stereo
or mono
operation**

**All outputs
available on
front and rear**

The Signature HA6+ is a broadcast specification, six way headphone amplifier, designed to operate in a mono or a stereo mode.

The HA6+ has 2 x XLR inputs that are used as the primary programme audio input, and 2 x XLR inputs that are used for the secondary aux audio input. These can be stereo, or, if a mono input, can be switched to appear on both sides of the headphones. There are left and right primary input gain controls on the rear panel, and they are on recessed screw terminals.

On the front panel there is a source control for each headphone output that allows a mix between the programme and aux input. Full left is programme only, full right is aux only, and anywhere in between is a variable mix.

Each of the six headphone amplifiers has its own volume level pot. There is also a master volume pot that controls the overall level of

all amplifiers. This can be defeated via a rear panel dip switch. Each of the six headphone outputs are available via front panel 6.35mm jack sockets, and in parallel on rear panel XLR connectors.

Rear panel inputs and outputs are electronically balanced on XLRs and can accommodate unbalanced connections if required.

Power is provided by an internal switch mode power supply, with a wide input range. There is also an input for external 12v DC power. The 12v DC input can be connected to the optional Signature PS1 external DC Master Power Station, for situations where a redundant power supply is desirable.

A bright front panel LED indicates that the unit is operational.



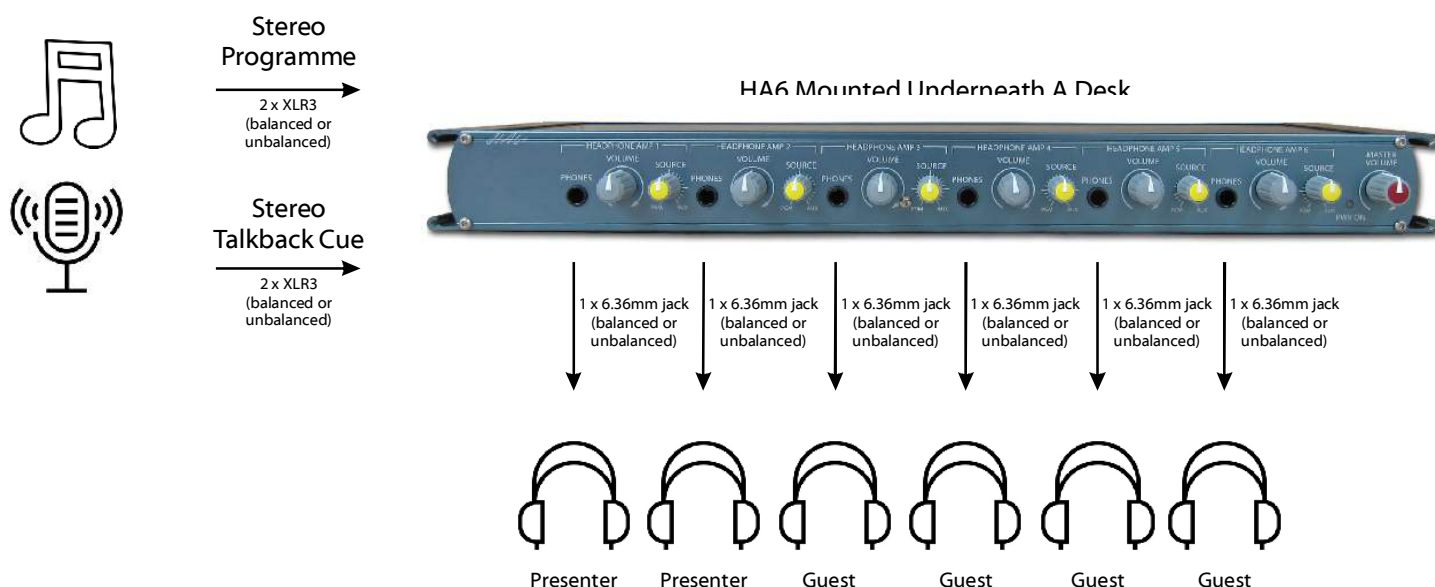
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Signature HA6+ Six Stereo Headphone Amplifiers

EXAMPLE APPLICATION

Radio Studio Co-Host & Guest Monitoring Headphone monitoring



Many broadcast mixers do not have as many headphone outputs as required. In this example the HA6+ is being used to provide extra headphone connections to co-presenters and a guests.

The HA6+ is mounted underneath a desk using the flush mounting side wings. This allows the users access to the level controls and front panel connections.

The main stereo programme comes from the broadcast mixer and connects into the HA6+ via 2 x XLR connections.

The stereo talkback cue feed from the broadcast mixer connects into the HA6+ via 2 x XLR connections.

All of the HA6+ users are in the main studio on a guests table. They connect their headphones into the front of the HA6+ and have separate level controls so they can now monitor the programme audio.

As the presenters are part of the radio station, they will also want to have access to the secondary talkback cue input so they can hear comments from an engineer or desk operator in the control room. They can adjust their rotary source control on the front panel so they can also hear this talkback cue.

The guests would have their headphone mix control turned full left, so that they would only hear the stereo programme audio.

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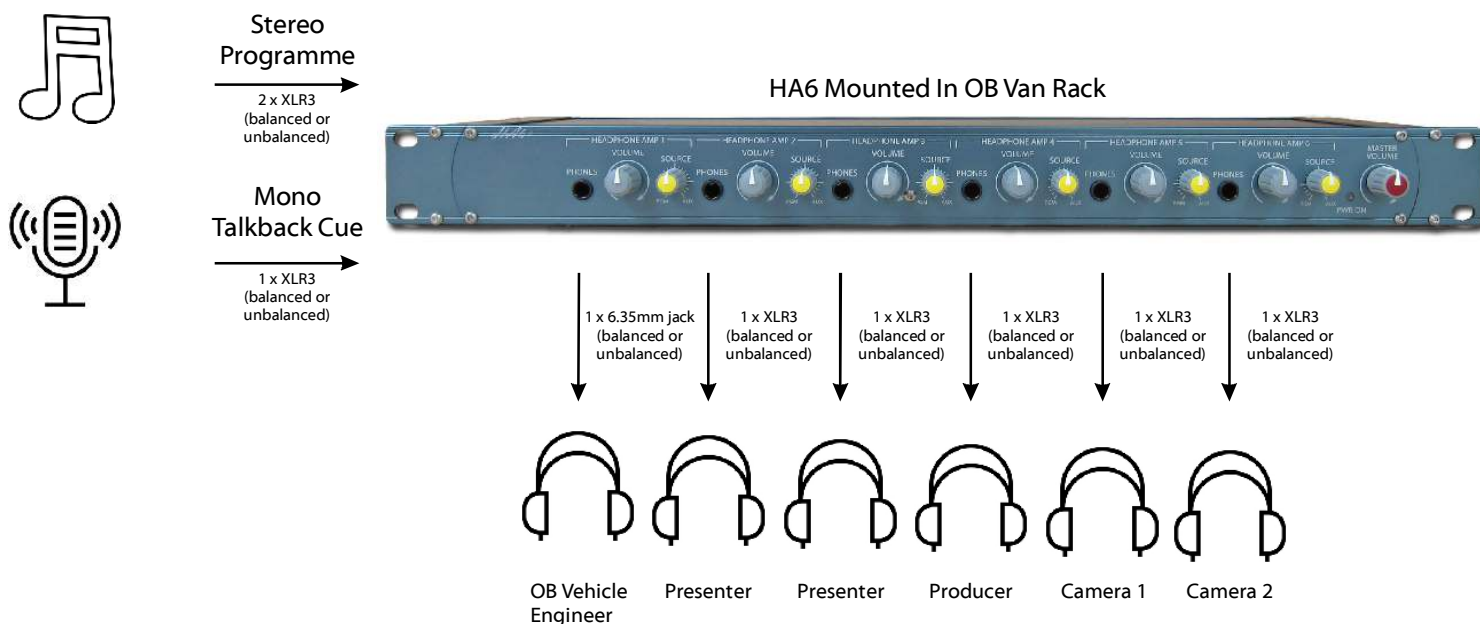
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EXAMPLE APPLICATION

Outside Broadcast Vehicle Headphone Monitoring



A small outside broadcast vehicle will often have to provide headphone monitoring for several different types of users.

In this example, the HA6+ is in the OB vehicle. The local engineer can plug in to the front of the HA6+. He can also provide headphone monitoring for 2 presenters, a producer, and 2 cameramen.

The engineer and the cameramen can set their source controls so that they mostly hear the talkback cue audio, with just a low level of the programme audio in the background for confidence.

The presenters have mostly the programme audio, with just a low level of talkback audio, and the producer can have a balanced mix between the programme and talkback audio.



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Signature HA6+ Six Stereo Headphone Amplifier

SPECIFICATION

AUDIO INPUTS

Maximum Input Level

+24dBu

Input Impedance

30k ohm

Programme Input Type

Sophisticated electronically balanced
(can be wired unbalanced)

Programme Input Circuit

Stereo or mono (via rear panel switch)

Programme Input Connectors

2 x Neutrik 3 pin XLR sockets

Cue Input Type

Sophisticated electronically balanced
(can be wired unbalanced)

Cue Input Circuit

Stereo

Cue Input Connectors

2 x Neutrik 3 pin XLR sockets

Coarse Gain Range

20 dB on programme input only

Front Panel Volume Pots Gain Range

75dB (-65dB to +10dB)

Front Panel Source Control Range

70dB (-70dB to 0dBu)

HEADPHONE OUTPUTS

Output Type

Sophisticated electronically balanced. They can accept mono or stereo jacks, with automatic level correction for low or high impedance headphones

Output Connectors

Front panel Neutrik A-gauge TRS 6.35mm (1/4") jack socket in parallel with rear panel Neutrik 3 pin XLR plug

Frequency Response

-2.0dB 20Hz, -0.5dB 20kHz

Maximum Output Level

+19dBu/67.07mW into 600 ohms and
+8dBu/6.2mW into 32 ohms

Distortion

<0.02% THD @ 100Hz & 0.005% @ 10kHz
Reference to +8dBu output

Noise

>-82.3dB @ line up unweighted
RMS (22Hz to 22kHz)

Headphone Impedance

32 - 1000 Ohms

Crosstalk

Programme to Aux Input 1k tone @ line up
-72dBu

POWER

Mains Input

Filtered IEC, 100 to 240VAC
47 - 63Hz

AC Consumption

4 Watts @ 230VAC

DC Input

4 Pin Neutrik XLR plug +/- 12V

DC Consumption

+12V=150mA, -12V=150mA

Internal Mains Fuse

20mm 1A Anti Surge

PHYSICAL

Size

445 x 123 x 44mm (LxDxH) no rack ears
482mm 19" (1RU) with rack ears

Weight

1.26kg

Mechanics

All aluminium construction, anodized and laser etched

Shipping Carton

Rugged export quality cardboard carton
610 x 420 x 130mm LxDxH

Shipping Weight

2.7kg



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Signature Series Standard Features

STANDARD FEATURES

19" Rack Mount Ears



A Signature unit can rack mount in a 1U 19" rack, regardless of the size of the unit. Rack ears are included as standard with every unit.

Front Or Rear Mounting



A Signature unit can be rack mounted via the front panel or if it is more convenient, via the rear panel by simply swapping the rack ears over.

Side Wings For Flat Surface Fixing



A Signature unit has side wings with mounting holes at the top and bottom, allowing flush fixing from above **OR** underneath.

Neutral Colour Scheme To Compliment Equipment Areas



Rack Screws Included



Modern Design



Internal Switch Mode AC Power Supply



A Signature unit has an internal switch mode AC power supply, allowing worldwide power connections from 100-240v via an IEC socket.

12V DC Power Connection



All Signature units (except PS1) have a 4 pin XLR $\pm 12V$ DC socket for connection to the PS1 Power Station. This can act as the primary or backup power source.

Quick Find Manual



A Signature unit has a QR code attached. This can be scanned to simply and quickly locate the manual and technical information.

CONTACT

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