

Heritage 3000

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Heritage 3000 Specifications

Ultimate Flexibility: The Heritage 3000 is a unique live performance mixing console that brings complete flexibility to the live console arena. At home in a theatre, an Outside Broadcast Truck, on stage or at front of house, the H3000 offers a unique, easy to use, three position switching system that changes the consoles output functions according to the application.

Interchangeable Modules: The H3000 is easily serviceable due to its fully modular design. Stereo modules can be easily swapped with mono modules in any input position within the frame.

Frame Sizes: The H3000 has frame sizes from 48 to 56 input frames.

Improved XL4 Mic pre Amp: The H3000 features a new mic amplifier which further improves on the XL4 design giving a CMR improvement of +30dB whilst retaining the XL4's constant HF bandwidth topology which assures excellent amplifiers stability, RF rejection and noise performance at all gains.

Equaliser: The warm, responsive and friendly four band fully parametric XL4 Equaliser design. Enough said.

Direct Outputs: Every input module is fitted with a direct output as standard with its own level control and front panel switching which selects the source from pre / post equaliser.

24 Mix Sends: The 24 mix sends can be easily configured dependant on the required application. Each pair of outputs can either be 2 audio sub groups or 2 aux sends or a stereo aux send (level / pan). These settings are memorised on power down.

Inserts: Each channel has a half normalised fully balanced insert send and return point which can be switched in or out from the front panel and set as either pre or post equaliser.

Spacial Image System (SIS™): Each input module is fitted with the Midas Spacial Image System (SIS™) for use with Left, Centre, and Right loudspeaker systems. When SIS is active, the unique image control rotary fader modifies the action of the pan control allowing the input to be fed into all 3 outputs. This can be particularly useful for distributing the load of high energy, centre panned sounds across all FOH loud speaker arrays.

VCA Groups and Mute Groups: Each channel can be controlled by any combination of the 10 VCA master faders and 10 mute masters. Assignment of these busses can be under automation control. A safe switches can disconnect the channel from all mute groups and / or VCA control.

Link capability: Direct inputs on all outputs allow the possibility to link consoles together or to a sidecar / extender.

Matrix: As standard the 8 matrix outputs derive their signals from the 24 mix sends, left, right and mono masters creating a 27 X 8 matrix.

Automation: The automation system can store and recall up to 500 scenes. VCA sub group routing is automated as well as all input and major output mutes. Input channels and VCA sub group levels can be also controlled via the automation system.

Mechanical and Electronic Design Modules: All modules are extruded to provide exceptional modular strength.

PCB Material: Military specification PCB material (FR4).

Frame: Zinc plated steel chassis in 3 box sections to provide exceptional strength. The audio is separated from digital automation control by the steel chassis along the length of the console. Any interconnections between the two are filtered on both ends of the cable to ensure audio purity.

Faders: P&G faders used throughout.

Amp Design: Low noise summing amplifiers.

Buss design: Hum / noise cancelling busses.

Potentiometers: High cost, hermetically sealed Alps potentiometers used throughout.

Components: Tight tolerance resistors and capacitors used throughout. Stable circuitry design that banishes oscillation.

Warranty: Midas has confidence in their products resulting in an industry beating 3-year warranty.

Weights and Dimensions (WxDxH):

- 48 channel 44 mono/4 stereo 215kg (473.9lbs)* 2268mm (89.29" x 1054mm (41.49") x 599mm (23.58")
- 48 channel Bob Tail 44 mono/4 stereo 205kg (451.94lbs)* 2138mm (84.17") x 1054mm (41.49") x 599mm (23.58")
- 56 channel 52 mono/4 stereo 253kg 564.4lbs* 1054mm x 2529mm 41.49" x 99.57"
- 16 extender user specified 64kg (141.1lbs)* 657mm (25.88") x 1054mm (41.49") x 599mm (23.58")

*These weights are approximate and taken out of flight case.

Also available as a bob-tail.

Frames: 16 Extender, 24, 32, 40, 48, and 56 (please note the 16 extender cannot be used with consoles greater than 48 channel).

Stereo: All inputs wired for stereos

EQ: 4 band fully-parametric (XL4)

Direct Output (front panel switchable and level control)SIS panning with IMAGE control

24 Mix Outputs (front panel configurable per application)

10 VCAs

10 Automute groups

27 x 8 matrix

Automation: snapshot automation of VCA routing, mutes and all channel and VCA levels

Specifications:

Technical Overview

30 buss console with an additional 27 x 8 output matrix. The busses are as follows:

24 stereo or mono configurable groups = 24

1 stereo master = 2

1 mono master = 1

1 stereo AFL = 2

1 mono PFL = 1

TOTAL = 30

10 automute sub groups and 10 VCA sub groups which include VCA sub group muting.

52 input channels plus an additional 26 direct inputs on the group and master modules.

Total XLR input count of 95 as follows:

52 channel mic inputs

24 group direct inputs

8 matrix bus inject inputs

3 solo bus inject inputs

2 master direct inputs

2 external inputs (2 track return)

1 master bus inject

1 talk mic input

1 talk external input

1 test bus input

Total XLR output count of 89 as follows:-

44 input channel direct outputs

24 audio group outputs
8 matrix outputs
3 master outputs
3 solo outputs
6 local outputs
1 talk external output

Total of 180 balanced 1/4 inch jacks for inserts as follows:-

52 input channel insert sends
52 input channel insert returns
24 audio group insert sends
24 audio group insert returns
8 matrix insert sends
8 matrix insert returns
3 master insert sends
3 master insert returns
3 local insert sends
3 local insert returns

58 long throw faders for mix control with fader position recall and virtual fader functions.

1043 automated switch functions as follows:-

480 input channel VCA sub group virtual assign switches
480 input channel mute sub group virtual assign switches
48 input channel mute switches
24 audio sub group mute switches
8 matrix mute switches
3 master mute switches

89 peak program meters with 20 LED segments on all outputs and 11 LED segments on input channels.

Technical Specifications

Input Impedance
Mic 2k Balanced
Line 20k Balanced

Input Gain (all faders at 0dB)
Mic continuously variable from +15dB to +60dB
Mic + Pad continuously variable from -10dB to +35dB
Line Level Inputs 0dB

Maximum Input Level Mic +6dBu
Mic + Pad +31dBu
Line Level Inputs + 21dBu

CMR at 1kHz
Mic (gain + 40dB) > 80dB
Mic + Pad (gain 0dB) >50dB
Line >50dB

Frequency Response (20 to 20kHz)
Mic to Mix (gain + 60dB) +0dB to -1dB

Noise (20 to 20kHz)
Mic EIN ref. 150 Ohms (gain + 60dB) -129dBu

System Noise (20 to 20kHz)
Summing Noise (48 channels routed with faders down) -80dB
Line to Mix Noise (48 channels routed at 0dB, pan centre) -75dB

Distortion at 1kHz
Mic to Mix (+60dB gain, 0dBu output) <0.03%

Crosstalk at 1kHz
Channel to Channel <-90dB
Mix to Mix <- 90dB
Channel to Mix <-90dB
Maximum Fader attenuation >80dB

Output Impedance All Line Outputs 50 Ohms Balanced Source to drive > 600 Ohms
Headphones To drive >8 Ohms

Maximum Output Level

All Line Outputs +21dBu
Headphones +21dBu

Nominal Signal Level
Mic - 60dBu to +10dBu
Line 0dBu
Headphones +10dBu

Equaliser

Hi pass slope 12dB / Oct
Hi pass frequency continuously variable - 3dB point from 20Hz to 400Hz
Treble Gain continuously variable +15 dB to -15dB centre detent = 0dB
Treble Shelving Freq continuously variable - 3dB point from 1k to 20k
Treble Bell Freq continuously variable centre from 1k to 20k
Treble Bell Bandwidth continuously variable 0.1 Oct. to 2 Oct centre detent = 0.5 Oct
Hi Mid Gain continuously variable +15 dB to -15dB centre detent = 0dB
Hi Mid Freq continuously variable centre from 400Hz to 8k
Hi Mid Bandwidth continuously variable 0.1 Oct. to 2 Oct centre detent = 0.5 Oct
Lo Mid Gain continuously variable +15 dB to -15 dB centre detent = 0dB
Lo Mid Freq continuously variable centre from 100Hz to 2k
Lo Mid Bandwidth continuously variable 0.1 Oct. to 2 Oct centre detent = 0.5 Oct

Options

XLINTX** Input Transformer per channel

XLOUTX** Output Transformer per channel

XLFS** Fader Start per channel

** These options are not readily retrofittable and should be specified with product order.