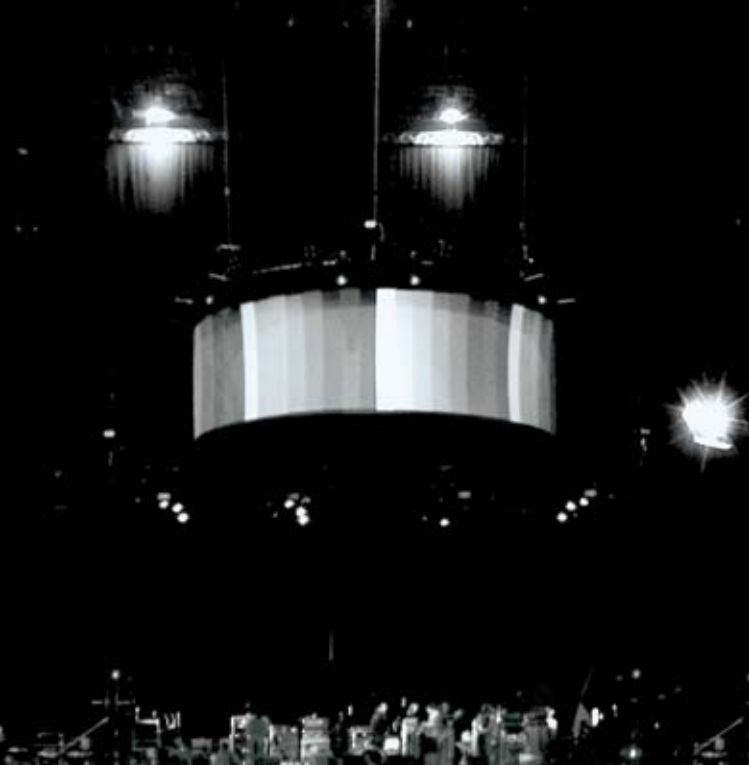


Midas Consoles Pocket Guide

Innovation. Design. Performance.





Introduction

Midas has been designing and manufacturing live performance mixing consoles for the world's most demanding sound engineers, performers and production rental companies since the early 1970s. The evolution of Midas consoles throughout the history of this classic marque has always paralleled, and often led, increasingly sophisticated audio innovations for the world-wide entertainment technology industry.

Raising the standards of sonic quality through continual research and development has always been - and still remains - our overall aim. Equally important to us is the design and implementation of many new areas of control functionality and user-friendly desk operation. This allows us to anticipate and accommodate the rapidly changing and expanding needs of audio professionals who specify Midas consoles for their major tours, festivals, international events, broadcast projects and prestigious fixed installations.

Midas' design pedigree has been founded upon a track record of achieving a unique working relationship with sound engineers from around the world who respect and endorse our proven technology.

Our current range exemplifies the ethos of designed for a pure performance through innovation.

Midas products are represented by an international network of appointed distributors, all of whom are authorised to sell and provide technical support for our products. Full contact details for all our distributors are available from the website at www.midasconsoles.com, however please contact the factory direct for information if necessary.

MIDAS XL8

a new standard for live mixing

The XL8 Live Performance System is truly revolutionary and heralded Midas' entry into the digital mixing realm. However, this is not merely another digital mixing console. XL8 offers an incomparable

design combining exemplary sound quality, flexibility and reliability with an ease and familiarity of use unrivalled by other digital control surfaces.



XL8 was the first of a new generation of open-architecture, cross-platform, integrated audio control and distribution systems, which brings control of not only audio, but other aspects of a live performance to a single, intuitive control centre.

As well as offering classic Midas audio quality and superb reliability, XL8 actually improves upon the performance of the analogue consoles, which have established Midas as the number one choice of sound engineers the world over. XL8 represents a new generation of networked systems, requiring only mics, amps and speakers to provide a complete audio system.

The XL8's open architecture ensures that both third-party hardware and software, including "plug-ins" can be easily integrated into the system. The very latest in high-speed networking technology ensures that XL8 will conform to all the classic Midas brand values of sound quality, reliability and longevity; it will not be obsolete in a few years.

- ➔ Failure-tolerant of any single failure of hardware or software
- ➔ Proven, stable, Linux operating system
- ➔ Dual redundant master control processors
- ➔ Five individual bay control processors
- ➔ 24/7 global telephone support
- ➔ Three year factory warranty
- ➔ Rugged design, tolerant of physical abuse
- ➔ XL8 Dimensions
 - Width 1875mm 73.82"
 - Height 420.8mm 16.57"
 - Depth 1054.27mm 41.51"
 - Weight* 159kg 350.53lbs

*weights are approximate and out of flight case

Standard XL8 Live Performance System consists of:

- ➔ One XL8 Control Centre
- ➔ Ten DL471 DSP Engines
- ➔ Two DL461 Audio System Signal Routers
- ➔ Five DL451 Audio System Modular I/O
- ➔ Four DL431 Audio System Input Splitters
- ➔ One DN9331 Klark Teknik Helix RAPIDE



MIDAS DL461

audio system signal router

The DL461 is a 3U 19" rack unit, which performs the stage-to-console link using a single Cat-5e cable (under 100 metres) or fibre-optic link (up to 500 metres).



In addition to audio and control connections to the ten DSP modules. It features ten fully dual redundant AES50 connections for local I/O, as well as BNC and AES3 word clock interfaces and Ethernet tunnel. Dual redundant DL461s are supplied with each XL8 system.

- Two DL461s included in a XL8 live performance system
- Integrated open-architecture AES50 digital audio distribution
- Fully duplicated network for redundancy
- Up to 100 metres of dual redundant connectivity between hardware elements (copper); up to 500m using optical fibre
- Automatic integral delay management system - audio outputs time and phase coherent
- Flexible, expandable hardware system
- Ethernet TCP-IP for third parties

MIDAS DL471

audio system signal processor

The DL471 is a 1U 19" rack unit, which forms part of the modular DSP engine.



It features its own discrete power supply, AES50 and Ethernet interfaces, as well as a dual, ultra high-speed, contra-rotating data loop for direct processor to processor communications.

Each XL8 system includes ten DL471 units of which one is a redundant spare (n+1 resilience model).

- ➔ Ten DL471s included in a XL8 live performance system
- ➔ Dual redundant AES50 ports
- ➔ Dual redundant Ethernet ports
- ➔ Linux operating system
- ➔ Advanced FPGA architecture
- ➔ 4.8 Gigafllops of processing power per DL471

MIDAS PRO6

digital, with Heritage

The Midas PRO6 Live Audio System is the second networked digital audio system from Midas. Employing technologies developed from the class-leading XL8, the PRO6 offers the same exemplary sample - synchronised audio performance in a compact package.

Although the PRO6 standard system comprises a Control Centre with a footprint similar to that of a 32 channel Verona and only two 7U 19" rack units, it's

diminutive size belies its ability to provide up to 80 simultaneous input processing channels and up to 32 (+3) discrete mixes in monitor mode, all of which feature EQ and a choice of many dynamics processing options. By adding additional I/O hardware the PRO6's network can be expanded up to 264 inputs and 264 outputs. These connections can be patched and routed on a scene-by-scene basis, by use of the PRO6's powerful snapshot automation.



- ➔ Dual "Daylight Visible" Screens with 3-way KVM switch
- ➔ XL8-Style "Fast Zones"
- ➔ XL8-Style Dual Operator "Channel Strips"
- ➔ 10 VCAs
- ➔ 6 POPulation Groups
- ➔ Configurable "Area B"
- ➔ 16 Input Faders
- ➔ Up to 80 simultaneous mix channels
- ➔ 16 Group/Aux & 16 Matrix - 32 Mixes in "monitor" mode
- ➔ Surround panning including LCRS, Quad and 5.1
- ➔ Dual-Redundant Linux Control Computers
- ➔ Dual-Redundant HyperMac (192x192) digital snake included
- ➔ 8 Fully-assignable FX engines – with new FX options
- ➔ Up to 36 KT Graphic EQs - with optional DN9331 Rapide control
- ➔ 3 AES50 Ports on the Control Centre for I/O expansion and XL8 connectivity
- ➔ 24 Configurable inputs on the Control Centre*
- ➔ 24 Configurable outputs on the Control Centre*
- ➔ Three year factory warranty

*Dependant on I/O card options fitted

Weights and Dimensions:

Control Centre - 1365mm x 924mm

Weight - 95Kg / 209.4lbs*

DL371 - 7U, 22Kgs / 48.5lbs*

DL351 - 7U, 27Kgs / 59.5lbs*

*weights are out of flight case

System Packaging:

1 x PRO6 Control Centre, 1 x DL351, 1 x DL371 in a standard system

Ships with 2 x 100 metre Cat-5e cables.

Control Centre is supplied in a 'Touring' flightcase.

DL371 and DL351 are shipped in a 16U 'Touring' flightcase.

packaging may vary by territory



MIDAS DL371

audio system engine

The DL371 is a 7U 19" rack mount unit, which houses the 5 audio processing modules and routing hardware. Employing advanced FPGA

architecture, It has three integral power supplies, only two of which are required for full operation. The PSUs are auto-voltage sensing, auto-standby, auto-switchover,



hot-swappable, are fitted with locking AC connectors and are interchangeable with the PSUs in the PRO6 Control Centre.

The engine has dual-redundant HyperMac ports (both Cat-5e and Optical) which provides the digital equivalent of a 384-way (192+192) multi-core between the stage and FOH. There are also eight AES50 ports, which facilitate connections to the PRO6's DL351 stagebox, and/or other AES50 I/O

hardware. It is also possible to use the PRO6 with XL8 I/O hardware (DL431, DL451 and the Klark Teknik DN9696 High Resolution Audio Recorder).

The processing engine is loaded with 5 modules as standard with an option for a sixth redundant spare module. Provision is made for a seventh module, allowing expansion/addition at a later date.

- ➔ One DL371 included in a PRO6 Live Audio System
- ➔ N+1 PSU redundancy
- ➔ Dual redundant HyperMAC ports

- ➔ Eight AES50 ports
- ➔ Advanced FPGA architecture
- ➔ N+1 DPS redundancy option

MidasNET

MidasNET uses the physical connectivity of Ethernet (Ethercon connectors and Cat-5e cable), but NOT the data protocol, which is too slow for high-quality, low-latency real time audio distribution.

MidasNET connections carry digital audio, control data, and standard Ethernet traffic, bi-directionally, down a single cable. Cat-5e for "local" (24 channel) connections, and a single Cat-5e (or fibre-optic) for the digital "snake", which is the equivalent of a 384 channel analogue multicore!

All digital audio is transmitted using the AES50 protocol (implemented as SuperMAC) and the HyperMAC high-capacity system. AES50 is an open-architecture protocol and HyperMAC is a standards candidate. These protocols benefit from extremely low latency, robust feed-forward error correction, and advanced system clocking. The use of this AES standard means simple, straightforward interfacing with ANY 3rd party hardware which feature this connection.

The benefit of combining audio, control, clock and third party Ethernet data into one single network means that all Midas digital network hardware interfaces on a single RJ45 connection.

MidasNET also runs self diagnostic software in the background in real time measuring important hardware performance such as processor temperatures, error correction rates and connection integrity. Any unusual variances are instantly notified to the user before any audible issues occur.

MidasNET runs at 96kHz sample rate. Each network link has a latency of only 70µs. Comprehensive management of delays are provided, including automatic compensation for external analogue insert points.



MIDAS DL431

audio system input splitter

The DL431 is a 6U 19" rack unit which features 24 mic/line inputs. Each input feeds three separate preamps, two with separate gain controls, the third being fixed gain.



The two variable-gain preamps feed separate ADCs which then pass 96kHz digital audio to the AES50 ports. Four discrete AES50 outputs supply dual redundant digital audio to AES50 networks, and allow for easy connection to any AES50 device (eg HD recorder).

Two balanced analogue splits (sourced post each mic amp) are provided on the rear panel. The third, fixed gain, preamp feeds a transformer isolated split on the front panel for recording or broadcast applications. Front-panel controls and local monitoring with integral headphone amplifier make the DL431 useable as a stand-alone device. Integral dual-redundant power supplies ensure peace of mind at all times.

- Front-panel control and local monitoring (can be used as a stand alone unit)
- Integral headphone amplifier
- Dual integral power supplies
- Integrated three way analogue mic splits
- Four AES50 ports

MIDAS DL451

audio system modular I/O

The DL451 is a 3U 19" rack unit, which provides a maximum of 24 audio inputs and 24 audio outputs.



It has a user-configurable card format, which can be configured as 8 analogue mic/line in (XLR), 8 analogue out (XLR), 8 analogue line in and out (TRS), or 8 digital in and out (4 AES/EBU XLR pairs).

Midi in, out and through, and GPIO connections are supplied as standard. Digital audio interface is via dual-redundant AES50 connections. All functions can be controlled remotely via MidasNET.

- Four card options of:
 - Analogue mic/line in (XLR)
 - Analogue out (XLR)
 - Analogue TRS in and out
 - Digital in and out (AES/EBU)
- MIDI
- GPIO

MIDAS DL351

audio system modular I/O

The DL351 is a 7U 19" rack unit, which provides a maximum of 64 audio inputs and 64 audio outputs. It has the same user-configurable card format as the DL451 but has the capacity to house up

to 8 cards, which can be any combination of 8 analogue mic/line in, 8 analogue out (XLR), 8 analogue TRS in and out, or 8 digital in and out (4 AES/EBU pairs).



Midi in, out and through, and GPIO connections are supplied as standard. Digital audio interface is via 4 AES50 ports, one of which can be configured as a spare redundant connection. Dual redundant power supplies with locking IEC connectors are fitted as standard.

- ➔ 64 audio inputs *
- ➔ 64 audio outputs *
- ➔ Four AES50 ports

The DL351 can be used with both the Midas XL8 and PRO6 digital mixing systems, or as a stand-alone AES50 audio interface.

- ➔ Four card options of:
 - Analogue mic/line in (XLR)
 - Analogue out (XLR)
 - Analogue TRS in and out
 - Digital in and out (AES/EBU)
- ➔ MIDI
- ➔ GPIO

*depending on card options

MIDAS DL I/O Card Options

audio system modular I/O

Audio connections on analogue consoles are comparatively inexpensive, a mixing console will have as many insert points

and direct outputs as there are input channels. Not so with digital mixing consoles.



Analogue Output



Analogue Mic/Line Input



AES/EBU Input and Output



8 analogue line in and 8 analogue line out (1/4"TRS)

Insert points and direct outputs require A-D and D-A converters, as well as physical connections, so most manufacturers limit the number of these to a mere handful of options. One advantage of Midas' network approach to digital mixing is that the number and configuration of I/O's can be easily expanded for complex applications, but easily streamlined for less demanding, more straightforward duties.

The modular construction of the I/O system means that the right number and correct type of connections are always available, and always in the right location. Midas modular I/O cards are interchangeable between different hardware housings, and all feature Midas audio performance and reliability, plus some extended usability features such as the connection locator LED found on all XLR I/O cards.

KLARK TEKNIK DN9331 RAPIDE

graphic controller

The DN9331 is a 6U 19" rack unit and is the motorised fader remote control for the Midas digital onboard Graphic EQs. It connects using a single Ethernet cable and provides instant real-time control of all onboard assignable graphic equalisers, via the Solo Tracking System (STS).

A flexible user interface allows custom remote channel assignments across four banks of thirty two channel selection buttons. Four freely assignable group buttons and a global 'all channels' button allow relative adjustment of channels. This is especially important when the priority is to stop on-stage feedback first and determine the source second.

- ➔ Simultaneous control of Midas digital onboard Graphic EQs and Klark Teknik digital EQ units
- ➔ 4 banks of 32 channels
- ➔ 4 user configurable GEQ groups
- ➔ Global Mode
- ➔ Rack mounting or free standing



KLARK TEKNIK DN9696

high resolution audio recorder

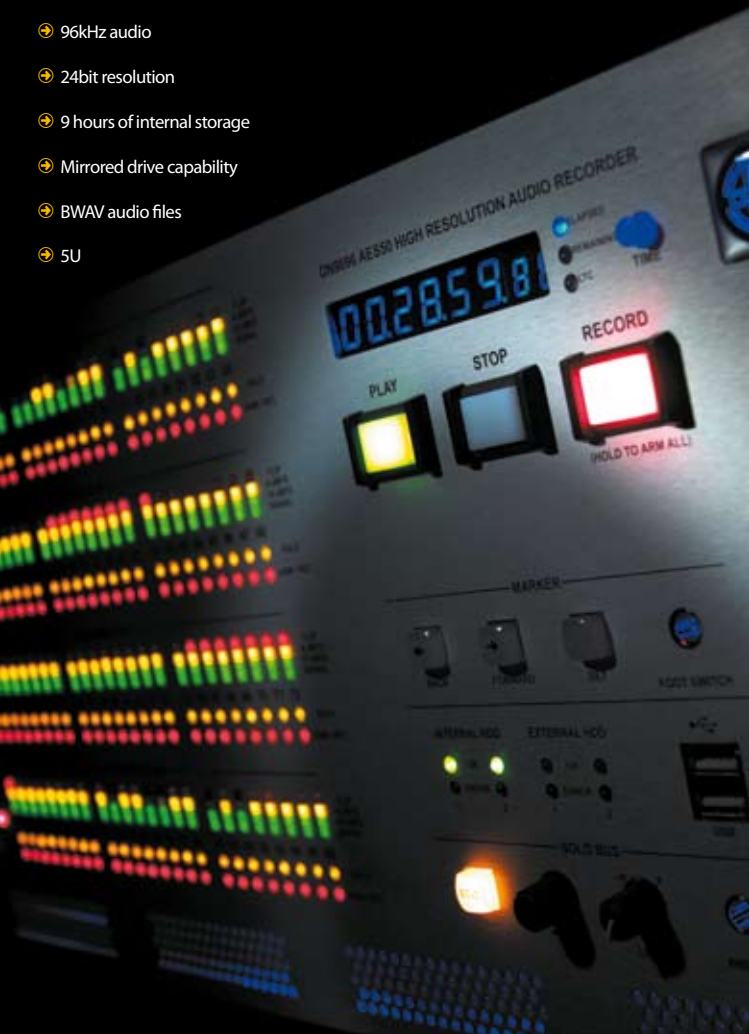
Klark Teknik has engineered an extremely easy to use, simple to setup, standalone hard disk recorder - the DN9696. This High Resolution Audio Recorder offers 96 tracks of 96kHz audio at 24bit, with a massive nine hours of internal storage. There is now no need for external computers linked to multiple non-roadworthy systems with complicated interconnections, just a simple plug and play unit with dedicated Play, Stop and Record front panel transport controls.

The screen based software interface offers in-depth control of both recording and playback

functions. There are echoes of the unique features of Midas' digital audio system within the DN9696, such as the use of POPulation groups to view, colour and edit tracks along with an 'Input Sheet' for quickly naming all tracks as well as 'dual operator' control of the system. These have all been designed to make the users life easier.

The DN9696 occupies only 5U of rack space with very simple cable requirements and does not demand the expense of a dedicated recording technician. After all, all you really need is Record, Stop and Play.

- ➔ Simple transport controls
- ➔ 96 tracks
- ➔ 96kHz audio
- ➔ 24bit resolution
- ➔ 9 hours of internal storage
- ➔ Mirrored drive capability
- ➔ BWA V audio files
- ➔ 5U



MIDAS HERITAGE 4000

monitor evolution

The Midas Heritage 4000 is an evolution of the award winning Heritage 3000 with an additional 16 more busses, which has

resulted in what many would regard as the ultimate analogue stage monitor console.



As monitor applications have become more demanding, specifically with the increased usage of in-ear systems, it is now common to see multiple consoles bussed together, in order to achieve the required amount of outputs. The Heritage 4000 allows an engineer to run up to 40 mixes (plus stereo masters) from a single console, benefiting from the world-renown Heritage buss flexibility, and "road proven" digital assistance.

As with all Heritage, Legend and Siena consoles the Heritage 4000 can be linked as well as the XL8 to the Klark Teknik Helix system allowing instant access to the EQ for any input or output simply by pressing the solo key on the desk. A beautifully elegant solution.

➔ **48 channel - 44 mono/4 stereo**

Width 2268mm (89.29") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 275kg (606.3lbs)

➔ **56 channel - 52 mono/4 stereo**

Width 2559mm (100.79") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 313kg (690.1lbs)

➔ **64 channel - 60 mono/4 stereo**

Width 2815mm (110.82") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 338kg (745.2lbs)

*weights are approximate and out of flight case

➔ **Frames: 48, 56, and 64**

➔ **Stereo: All inputs wired for stereos**

➔ **EQ: 4 band fully-parametric**

➔ **Direct Output: Front panel switchable and level control**

➔ **SIS™ panning with IMAGE control**

➔ **24 Mix Outputs: front panel configurable per application**

➔ **8 Stereo aux outputs**

➔ **10 VCAs**

➔ **10 Automute groups**

➔ **27 x 8 matrix**

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



MIDAS HERITAGE 3000

the industry standard

The Heritage 3000 has established itself as the international industry standard in concert sound for Front of House and monitor applications. Defined not only by its striking colour but also by all those things that make it so unmistakably Midas, the Heritage 3000 has proved to be a runaway success from day one.

Firstly, it's flexible - 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.

Secondly it has all of the hallmarks which make it sound so distinctly Midas. They include a mic amplifier which further improves on the XL4 design giving a CMR improvement of +30dB whilst retaining the XL4's constant HF bandwidth topology, assuring excellent amplifier stability, RF rejection and noise performance at all gains, plus the legendary fully parametric XL4 EQ.



This powerful desk is available in frame sizes from 24 to 64 inputs and is as tough as they come. With its vast range of features plus the Midas assurance of quality, it is little wonder this desk is the darling of the rental market.

➔ **24 channel - 20 mono/4 stereo**

Width 1484mm (58.42") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 140kg (308.6lbs)

➔ **32 channel - 28 mono/4 stereo**

Width 1756mm (69.13") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 165kg (363.8lbs)

➔ **40 channel - 36 mono/4 stereo**

Width 2012mm (79.21") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 188kg (414.5lbs)

➔ **48 channel - 44 mono/4 stereo**

Width 2268mm (89.29") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 215kg (473.9lbs)

➔ **48 channel Bob Tail - 44 mono/4 stereo**

Width 2138mm (84.17") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 205kg (451.94lbs)

➔ **56 channel - 52 mono/4 stereo**

Width 2559mm (100.79") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 253kg (564.4lbs)

➔ **64 channel - 60 mono/4 stereo**

Width 2815mm (110.82") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 260kg (573.2lbs)

➔ **16 extender - user specified**

Width 657mm (25.88") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 64kg (141.1lbs)

*weights are approximate and out of flight case

➔ **Frames: 16 Extender, 24, 32, 40, 48, 56, and 64**

(please note the 16 extender cannot be used with consoles greater than 48 channel)

➔ **Stereo: All inputs wired for stereo**

➔ **EQ: 4 band fully-parametric**

➔ **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, all channel and VCA levels**



MIDAS HERITAGE 2000

dedicated front of house

The Heritage 2000 offers all the superb audio performance and automation features of the Heritage 3000 in a package that is entirely dedicated to FOH duties.

It is suitable for a variety of applications from rock and roll to theatre to large-scale conferences and conventions and of course OB vehicles. As with all consoles in the Heritage range, the Heritage 2000 sports the Midas Heritage mic preamp, as well as the EQ section.

Sophisticated automation via the on-board computer enables the console to memorise all of the input fader positions to be recalled at a later date, and also memorises the mute status of the board.



Another feature shared with the Heritage 3000 is the Stereo Imaging System (SIS) with true LCR panning and an image width control device that is unique to Midas.

For applications where monitoring capabilities are not required, the Heritage 2000 enables customers to benefit from all the features of a Heritage 3000 at an extremely advantageous price.

➔ **24 channel - 20 mono/4 stereo**

Width 1484mm (58.42") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 133kg (293.2lbs)

➔ **32 channel - 28 mono/4 stereo**

Width 1756mm (69.13") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 155kg (341.7lbs)

➔ **40 channel - 36 mono/4 stereo**

Width 2012mm (79.21") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 173kg (381.4lbs)

➔ **48 channel - 44 mono/4 stereo**

Width 2268mm (89.29") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 200kg (440.9lbs)

➔ **48 channel Bob Tail - 44 mono/4 stereo**

Width 2138mm (84.17") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 190kg (418.9lbs)

➔ **56 channel - 52 mono/4 stereo**

Width 2559mm (100.79") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 231kg (509.3lbs)

➔ **64 channel - 60 mono/4 stereo**

Width 2815mm (110.82") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 245kg (540lbs)

➔ **16 extender - user specified**

Width 657mm (25.88") Depth 1054mm (41.49") Height 599mm (23.58")
Weight* 64kg (141.1lbs)

*weights are approximate and out of flight case

➔ **Frames: 16 Extender, 24, 32, 40, 48, 56, and 64**

(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**

➔ **Direct Output: Front panel switchable and level control**

➔ **SIS™ panning with IMAGE control**

➔ **12 Aux Sends, 12 Audio Sub Groups, 10 VCAs, 10 automute groups**

➔ **15 x 8 matrix**

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



MIDAS HERITAGE 1000

pc control of automation

The Heritage 1000 brings the unmistakable sound and legendary engineering quality of the Midas brand in a light and compact modular frame.

Its sophisticated automation (like a mini XL4) makes it suitable for a variety of applications, but especially for theatres where space is often at a premium.



On top of this Midas' Heritage 1000 Library Manager software allows sound designers the option of creating hundreds of scene snapshots in the comfort of their own home before rehearsals have even started. The standard 8-way matrix, which can be fed from auxiliaries, groups and masters, can be expanded to suit the largest zoning requirements.

The Heritage 1000 also enables traditional Midas customers to use their preferred brand of console for their smaller events, or even link to existing stocks of Heritage consoles for big, complex shows where large numbers of inputs are required (matrix outputs can be swapped for inputs).

For smaller rental companies, the Heritage 1000 is the perfect vehicle for introducing Midas values and performance to a more price-sensitive area of the market.

➔ **24 channel - 20 mono/4 stereo**

Width 1540mm (60.62") Depth 810mm (31.9") Height 340mm (13.39")
Weight* 85kg (187.4lbs)

➔ **32 channel - 28 mono/4 stereo**

Width 1789mm (70.43") Depth 810mm (31.9") Height 340mm (13.39")
Weight* 115kg (253.5lbs)

➔ **40 channel - 36 mono/4 stereo**

Width 2039mm (80.28") Depth 810mm (31.9") Height 340mm (13.39")
Weight* 130kg (186.6lbs)

➔ **48 channel - 44 mono/4 stereo**

Width 2289mm (90.12") Depth 810mm (31.9") Height 340mm (13.39")
Weight* 151kg (332.9lbs)

➔ **56 channel - 52 mono/4 stereo**

Width 2379mm (93.66") Depth 810mm (31.9") Height 340mm (13.39")
Weight* 160kg (352.7lbs)

*weights are approximate and out of flight case

Please note: the matrix outputs are fully expandable therefore, the data above is only a guide.

➔ **Frames: 24, 32, 40, 48, and 56**

➔ **Stereo: All inputs wired for stereos**

➔ **2 Inputs per channel (A/B)**

➔ **EQ: 4 band semi-parametric (XL3)**

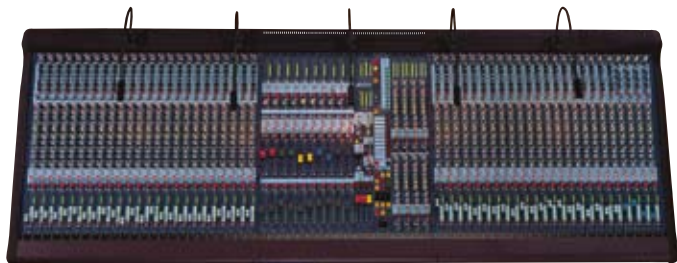
➔ **Direct Output**

➔ **SIS™ panning**

➔ **10 Aux Sends, 10 Audio Sub Groups, 10 VCAs, 10 automute groups**

➔ **15 x 8 matrix: outputs can be expanded to suit**

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



HERITAGE 1000 LIBRARY MANAGER



The Heritage 1000 library manager software is one of the Add-Ins available for the Midas and Klark Teknik ELGAR software shell. This award winning piece of software enables engineers to create scene settings on a PC which can then be uploaded to the Heritage 1000 as well as edit scene data downloaded from the console. As a result much of the console programming can be done offline in advance of the show, leaving more time for fine tuning during rehearsals which can then be downloaded to the PC to keep the settings in the show file current.

As a result the Heritage 1000, with its small footprint and powerful automation system, coupled with the Library Manager software provides an extremely effective creative tool for a number of applications but in particular theatrical productions.

The library manager can be used online during a performance to provide a visual overview of the consoles settings. For example when snapshot scenes are recalled by the console the library manager automatically updates the PC.

Library manager can edit offline the following functions:

- ➔ Mute states for input, output and group channels
- ➔ Fader levels for the VCA groups with variable crossfade speeds
- ➔ VCA and Audio subgroups assignments
- ➔ Automute and Auxiliary group assignments
- ➔ MIDI commands

SOLO TRACKING SYSTEM (STS)



Flexible audio equalisation for every application

What is it?

Solo Tracking System, or STS, is an auto solo system only available when linking a Midas STS compatible console to Klark Teknik's Helix EQ system.

What does it do?

Helix EQ can be linked to all Midas consoles in the Heritage, Legend and Siena range and the XL8 Live Performance System via the Solo Tracking System. When a solo key on the console is pressed, the EQ for that input or output (outputs only for Siena) is instantly shown on the Helix DN9340E Dual EQ or a wired / wireless PC, ready for immediate control. Once displayed on your chosen user interface you naturally have complete access to all the Helix EQ functions allocated to that input or output.

Benefits?

When a wireless laptop or tablet PC is integrated into the system, the engineer has the freedom to move around the stage or auditorium making real-time adjustments to the EQ and delay parameters within Helix EQ. The ability to EQ a floor monitor while standing at the 'hot spot' means the results are accurate

and fewer instances of leaping for the EQ rack during the show.

The graphic EQ portion of Helix can also be displayed on the DN9331 RAPIDE Graphic Controller. Fantastic for stage monitoring as the Solo button on each aux send can be used to instantly recall the graphic settings of the connected channel of Helix EQ, offering the monitor engineer unparalleled speed of access.

Connections

A RS-232 connection is supplied on the rear panel of Helix DN9331 and DN9340E acting as the serial data connection to the Midas STS compatible console. Ethernet is used as the control protocol allowing Helix to be integrated into an Ethernet network and up to 64 channels of Helix can be interconnected using standard Cat-5e cables.

MIDAS LEGEND 3000

ultimate flexibility

The Legend 3000 is a semi-modular multi-application live production mixing consoles which combines the unique Midas sound quality with some truly innovative features at unprecedented affordability.

It is designed for the tour operator, hire company or installer who cannot justify the cost of a Midas Heritage yet who are reluctant to buy a 'second division' console.

Legend includes the XL4's high performance preamps plus the XL3 EQ to deliver the trademark Midas sound, and it uses the same snapshot automation system as its larger cousins, but there are also some innovative features that make the console particularly attractive.



Legend is built around blocks of eight channels, yet the clever design means that servicing is still very straightforward. Many potential customers need on occasions to provide a monitor mix from the FOH position, Legend delivers a unique solution. Each input channel provides independent FOH and Monitor controls with dedicated EQ and faders. There are 12 highly flexible mix sends, which may be used individually as foldback or FOH effects sends and the user has complete freedom in how these are assigned.

➔ **28 channel - 24 mono/4 stereo**

Width 1342mm (52.83") Depth 920.02mm (36.22") Height 350.12mm (13.78")
Weight* 71kg (156.6lbs)

➔ **36 channel - 32 mono/4 stereo**

Width 1623mm (63.90") Depth 920.02mm (36.22") Height 350.12mm (13.78")
Weight* 85kg (187.4lbs)

➔ **44 channel - 40 mono/4 stereo**

Width 1904mm (74.96") Depth 920.02mm (36.22") Height 350.12mm (13.78")
Weight* 100kg (220.5lbs)

➔ **52 channel - 48 mono/4 stereo**

Width 2185mm (86.02") Depth 920.02mm (36.22") Height 350.12mm (13.78")
Weight* 114kg (251.3lbs)

*weights are approximate and out of flight case

- ➔ Frames: 28, 36, 44, 52 (including 4 stereo effects returns)
- ➔ FOH EQ: 4 band swept fully parametric mids
- ➔ Mon EQ: 2 band sweepable
- ➔ Direct Output
- ➔ SIS™ panning with IMAGE control
- ➔ 12 Mix Sends (front panel configurable for monitor mixes or effects sends) with 4 band semi parametric EQ (XL3)
- ➔ 8 Audio Sub Groups
- ➔ 10 VCAs
- ➔ 10 Automute groups
- ➔ 12 x 6 matrix: outputs can be expanded to suit
- ➔ Automation: snapshot automation of VCA, Audio Group and Aux routing plus mutes



MIDAS SIENA

16 aux sends - simple, intuitive, effective

Siena brings all of Midas' knowledge and experience in building dual purpose consoles, such as the industry standard Heritage 3000 and the now legendary XL3, and offers all of these benefits in a compact package.

Siena has been designed to both compliment and expand the ground-breaking Verona concept. Built on the highly successful, proven Verona platform, the Siena represents a combination of superb audio performance, and increased functionality, creating a new, class-leading, dual-purpose console.

Siena is more than a Verona with extra auxes. The buss structure has been redesigned to be more appropriate for monitor use. Sophisticated engineering solutions have been employed, such as the advanced Solo Tracking System, switched inserts on outputs, and a powerful logic controlled solo system.



Siena has a comprehensive control surface, however, it still maintains the familiar ergonomic layout of all Midas consoles, making navigation around the control surface quick, easy and intuitive.

Siena will appeal to the discerning audio professional, be they working in Concert sound, Theatre, Broadcast, House-of-worship or Audio-Visual, and at either end of the multicore.

➔ **Siena 240 - 24 mic inputs**

Width 1085mm (42.72") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 45kg (99.23lbs)

➔ **Siena 320 - 32 mic inputs**

Width 1327mm (52.24") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 55kg (121.25lbs)

➔ **Siena 400 - 40 mic inputs**

Width 1569mm (61.78") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 65kg (143.3lbs)

➔ **Siena 480 - 48 mic inputs**

Width 1811mm (71.30") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 75kg (165.34lbs)

➔ **Siena 560 - 56 mic inputs**

Width 2053mm (80.83") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 85kg (187.39lbs)

➔ **Siena 640 - 64 mic inputs**

Width 2295mm (90.35") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 95kg (209.44lbs)

*weights are approximate and out of flight case

➔ **Frames: 240, 320, 400, 480, 560 and 640**

➔ **EQ: 4 band**

➔ **Channel Inserts: front panel switchable**

➔ **16 Mix outputs**

➔ **5 Mute groups**

➔ **STS: Solo Tracking System**

➔ **Internal PSUs**

➔ **External PSU available as option and one standard on Siena 640**



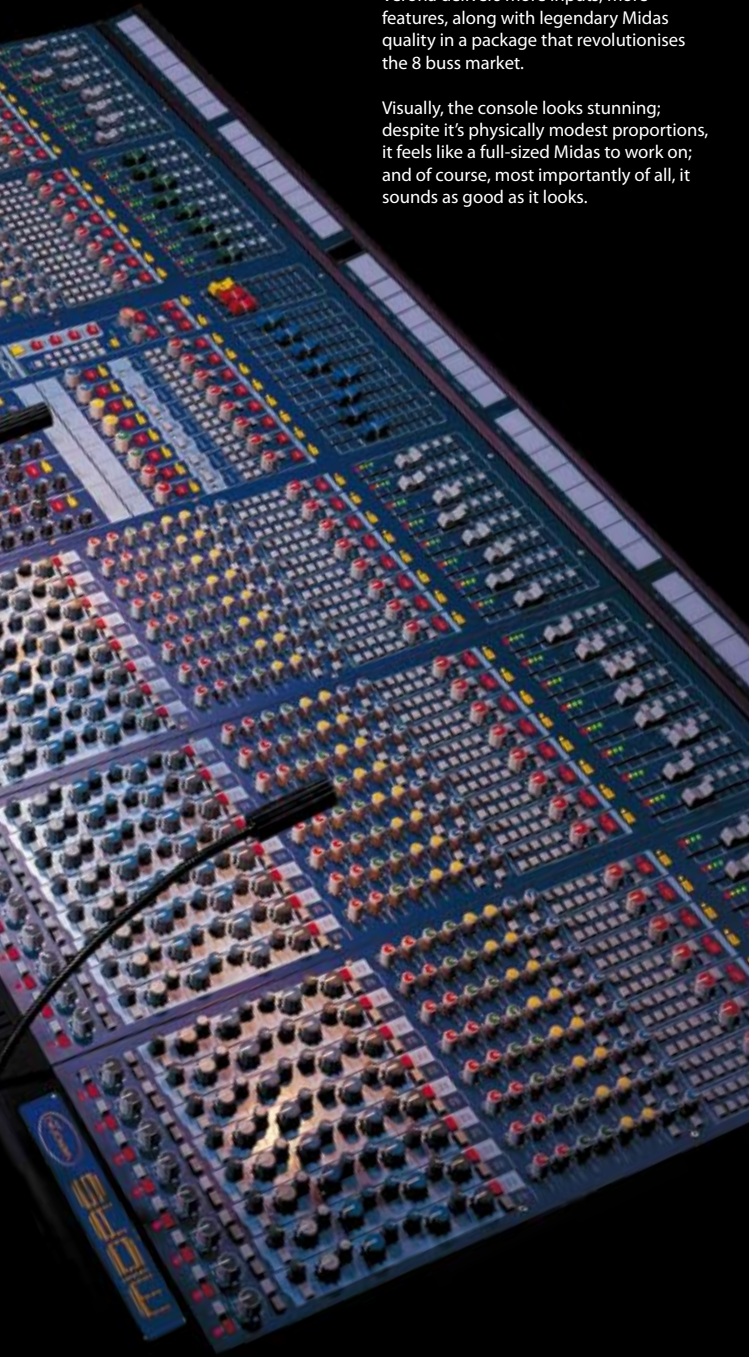
MIDAS VERONA

8 buss excellence

Verona is, quite simply, the desk the industry has been asking Midas for.

It takes the concept of the ultra-compact Venice, Midas' best selling console of all time, and elevates it to the next level. Verona delivers more inputs, more features, along with legendary Midas quality in a package that revolutionises the 8 buss market.

Visually, the console looks stunning; despite it's physically modest proportions, it feels like a full-sized Midas to work on; and of course, most importantly of all, it sounds as good as it looks.



Mechanically and electronically Verona is much more than just another 8-bus console. If you are primarily motivated by audio quality, rigid mechanical construction, long-term reliability and high residual values, then it is THE 8-buss console.

The Verona series consists of 6 models ranging from 24 up to a massive 64 inputs, and incorporates all the features and components that make it look, sound and feel like a true Midas. It has been designed from the ground up by the same team responsible for the XL4 and the Heritage

Series consoles, including the industry-standard Heritage 3000.

Anyone who has ever bought a Venice and loved it is going to be captivated by the Verona – you get more inputs, more features and that all-important Midas quality. Available as an install or touring package the Verona will handle anything from houses of worship to broadcast / recording, theatre to corporate applications, and of course concert sound.

➔ **Verona 240 - 24 mic inputs**

Width 1085mm (42.72") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 45kg (99.23lbs)

➔ **Verona 320 - 32 mic inputs**

Width 1327mm (52.24") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 55kg (121.25lbs)

➔ **Verona 400 - 40 mic inputs**

Width 1569mm (61.78") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 65kg (143.3lbs)

➔ **Verona 480 - 48 mic inputs**

Width 1811mm (71.30") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 75kg (165.34lbs)

➔ **Verona 560 - 56 mic inputs**

Width 2053mm (80.83") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 85kg (187.39lbs)

➔ **Verona 640 - 64 mic inputs**

Width 2295mm (90.35") Depth 782mm (30.76") Height 232.34mm (9.15")
Weight* 95kg (209.44lbs)

*Weights are approximate and out of flight case

➔ **Frames: 240, 320, 400, 480, 560 and 640**

➔ **EQ: 4 band**

➔ **Channel Inserts: front panel switchable**

➔ **SIS™ panning**

➔ **8 Audio subgroups**

➔ **8 Aux outputs**

➔ **4 Mute groups**

➔ **8 Multi function channels**

➔ **12 x 4 matrix**

➔ **Internal PSUs**

➔ **External PSU available as option and one standard on Verona 640**



MIDAS VENICE

the ultra compact midas

Venice is Midas' first truly compact console built in direct response to customer demand. It does exactly what was asked in that it

provides a high quality alternative in a huge number of applications where previously Midas was not an option.



These range from smaller conference or live band applications, to effects returns or additional inputs in a large multi-console application, or indeed as part of a small complete mobile system. It also provides the perfect feature set for live acts who need to mix their own FOH and monitor sound from on-stage, and is compact and light enough to fit on even the most cramped performance area.

As usual, Midas has paid attention to the details that set their consoles apart, taking care to provide high quality mic preamps and a stable, responsive EQ section, just as they do on their larger consoles. The simple but intuitive outputs make the overall configuration of the console extremely quick and easy to use.

➔ **160 - 8 mono/4 stereo**

Width 490mm (19.3") Depth 568mm (22.4") Height 194mm (7.6")
Weight*16.4kg (36.2lbs)

➔ **240 - 16 mono/4 stereo**

Width 698mm (27.5") Depth 568mm (22.4") Height 194mm (7.6")
Weight*21.1kg (46.5lbs)

➔ **320 - 24 mono/4 stereo**

Width 906mm (35.7") Depth 568mm (22.4") Height 194mm (7.6")
Weight*25.8kg (56.9lbs)

*Weights are approximate and out of flight case

➔ **Frames: 160, 240, 320**

(VENICE 160 will fit in a 19" rack and is shipped including the rack-mounting kit.)

➔ **EQ: 4 band sweepable**

➔ **Direct Output**

➔ **6 Mix Sends**

➔ **4 Audio Sub Groups**

➔ **2 stereo masters**





INS PAN MUTE

level/pan

level - pan

-6
-9
-12

MIDAS XL42

dual channel equaliser

The Midas XL42 is a 1U rack mounted, dual channel creative equaliser incorporating the XL4 four-band parametric equalisation with XL4 mic/line pre-amplifiers and 48V phantom supply. Each channel has input, output and pan rotary controls, 10 segment LED metering plus a switchable insert send and return point, plus DIP switches to enable automute scene control from the automute masters of XL consoles.

The purpose of this ingenious device is threefold: firstly to improve the audio quality of a console by adding Midas EQ to the selected programme. Secondly to create custom mixing consoles through the ability to daisy-chain multiple units. When linked together, the combined

outputs will sum, producing discrete L&R channels. Finally, if a production requires, for example, 10 channels more than the input capacity of the master console, five XL42's can be fitted in a standard rack together with any required dynamic processing. These can be inserted via the XL42's insert points, thus creating a custom 10 into 2 mixer via the output daisy chain feature. The resulting L&R outputs may then be routed to the master console via any convenient point i.e. a pair of aux returns, group inputs, matrix inputs etc.

As a stand-alone unit, the XL42 is ideally suited to applications requiring a high quality front end, such as stereo recording etc.





MIDAS XL88

8x8 matrix mixer

The Midas XL88 is a line level 8 x 8 matrix mixer that will greatly expand the capabilities of any mixing console to give eight fully independent sound balances from eight pre-mixed group outputs from the main console. In simple terms, the XL88 takes outputs from the console and allows the user to mix them into different combinations on the mixer before routing them to wherever they are required.

The construction of the XL88 is fully modular to Midas' high standard. The steel frame is designed to be mounted in a standard nineteen-inch rack and is four units (4U) in height. Rear support is not required. Inputs and outputs are all balanced, either electronically or via optional transformers. The audio quality is, of course, to a fully professional standard and the unit interfaces easily with other equipment.





MIDAS
DESIGNED FOR A PURE PERFORMANCE

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