



DiGiCo

SD8



DiGiCo



The new SD8. The power, finesse and clarity of DiGiCo digital mixing with Stealth Digital Processing™.

The new DiGiCo SD8 brings you the complete DiGiCo digital mixing experience, from the ultimate in intuitive user interfaces to the power and purity of Stealth Digital Processing™, at a price point more commonly associated with midrange mixing consoles.

Whether you're moving up from an analogue console or adding more flexibility to your existing systems, the SD8 offers all the major features and versatility of the acclaimed DiGiCo D Series.

It's also the world's first 'affordable' console to provide the smoothness, accuracy and dynamic range of the latest generation Super FPGA technology with floating point processing, the heart of the groundbreaking DiGiCo SD7.

In its compact frame, the most affordable DiGiCo console ever built provides a powerful array of live sound engineering tools, laid out with the clarity you'd expect from a worksurface designed by the award winning team at DiGiCo.

The SD8 offers an extensive specification in a complete digital package. It has a stage MaDiRack with 48 microphone inputs as standard, 8 analogue outputs and dual MADI connections – making rehearsal and live show recording simple and inexpensive – a digital MADI multicore, a full worksurface with integral I/O consisting of: 8 Mic/line inputs, 8 line outputs and 8 AES/EBU (mono).

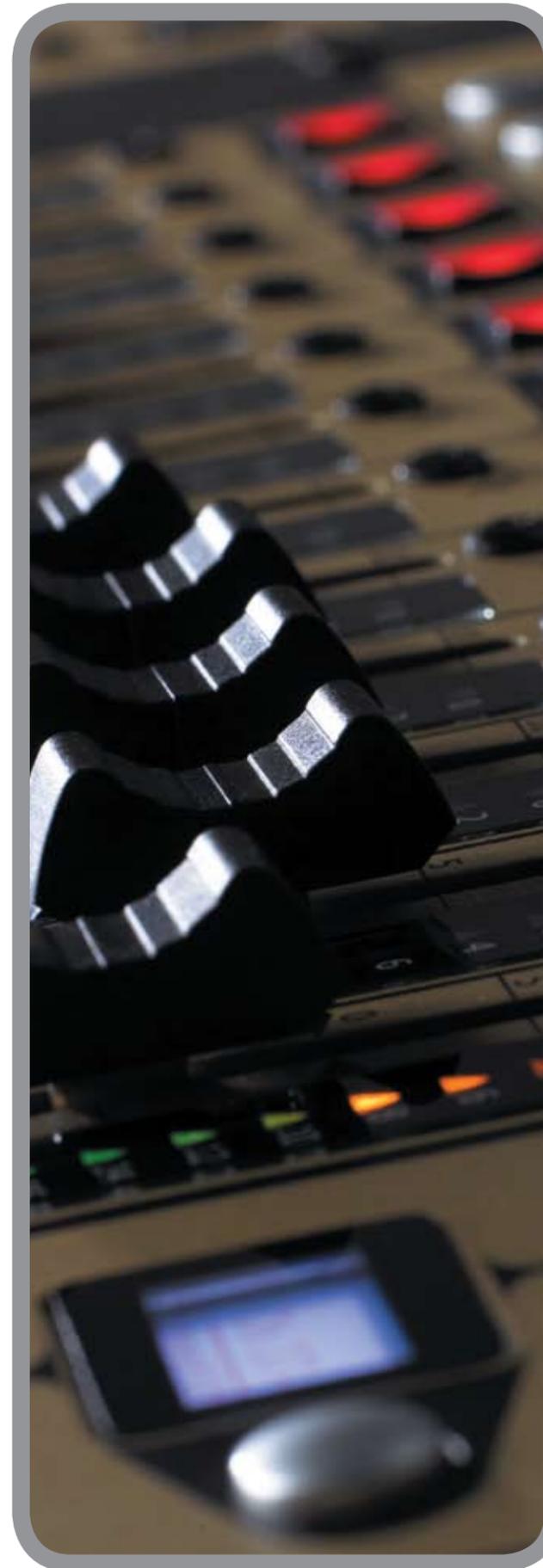
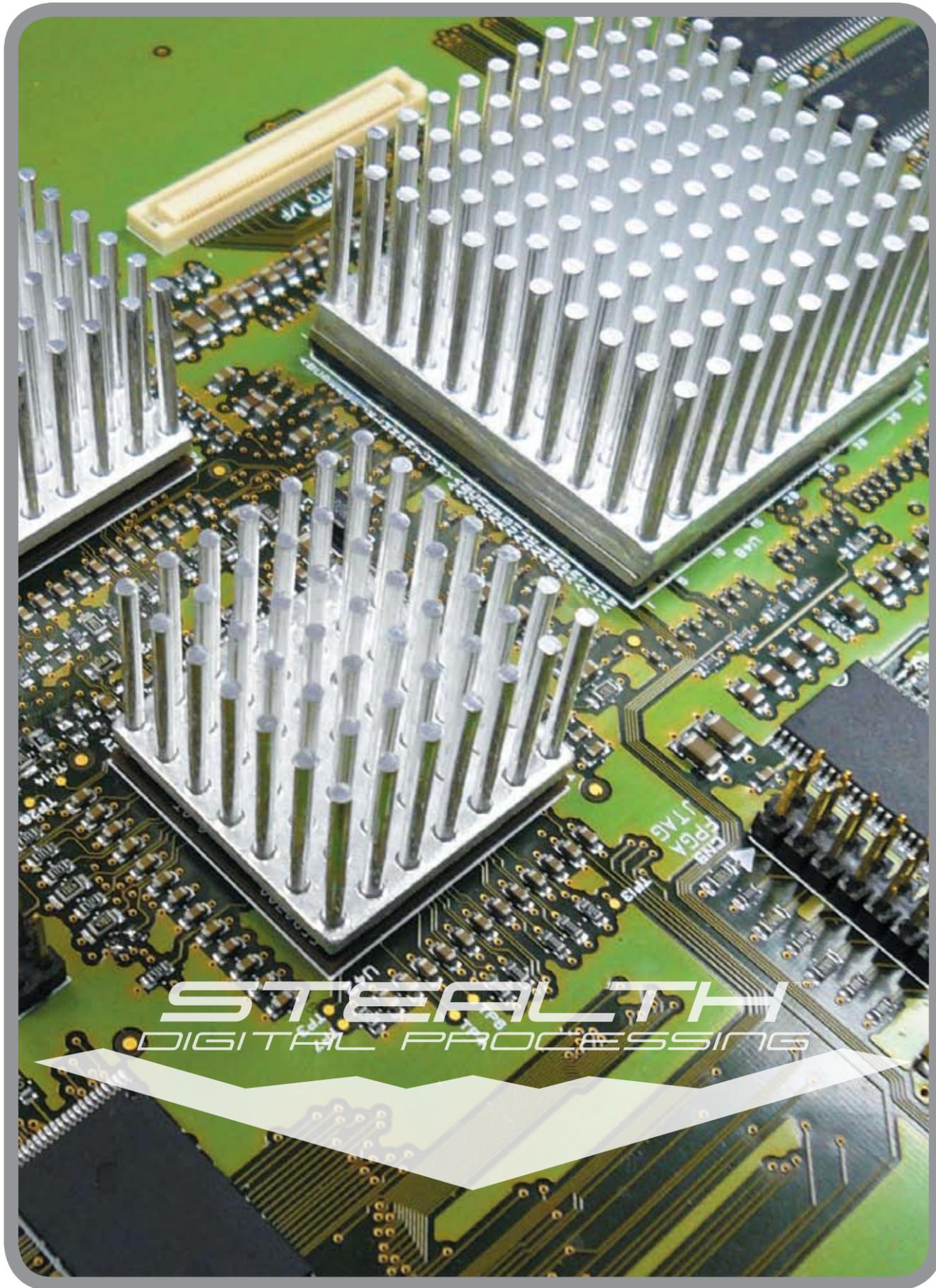
The essentials of the channel and master facilities are exactly as you'd find on any DiGiCo console and employ identical signal paths for exemplary sonic quality. Each one of the 60 audio channels can be selected as mono or full stereo (thanks to the Stealth processor's internal 120 channels of processing) allowing you to set up shows with large numbers of stereo inputs, each with full EQ and dynamics.

This uncompromising solution replaces a rack full of outboard equipment and places the key tools where you need them, in the channel itself and – at a press of one button – at centre stage on the touch screen. The screen is the same 15" TFT LCD specially developed for the SD7 and is matched with motorised faders arranged in blocks of 12 for logical operation.

You'll also appreciate DiGiCo's snapshot automation, making scene store and recall a simple task, while the master section incorporates 12 complete graphic equalisers with centre-detent faders for fast system set-up.

Two discrete master busses, 24 mono or stereo busses and a 12 x 12 matrix complete the channel and bussing structure. But that's not all, since the versatile SD8 also provides dual solo busses for greatly increased flexibility as a monitor console.

The DiGiCo SD8. A new world of performance and versatility in a midrange console.



The SD8 incorporates the highly innovative Stealth Digital Processing™, initially designed for the pioneering SD7. Based on a single Super FPGA combined with Analogue Devices Tiger SHARCS for an array of effects processing, it provides unrivalled audio quality, precision and processing power.

The future is Super FPGA (Field Programmable Gate Array) technology with floating-point processing.

Allied to the already powerful SHARC® processor, in use at the heart of every DiGiCo console, is the very latest Tiger SHARC® FX engine, all underpinned by DiGiCo's Stealth Digital Processing™.

Super FPGA technology is literally two generations beyond the world of DSP and is a core component of DiGiCo's advances in console design.

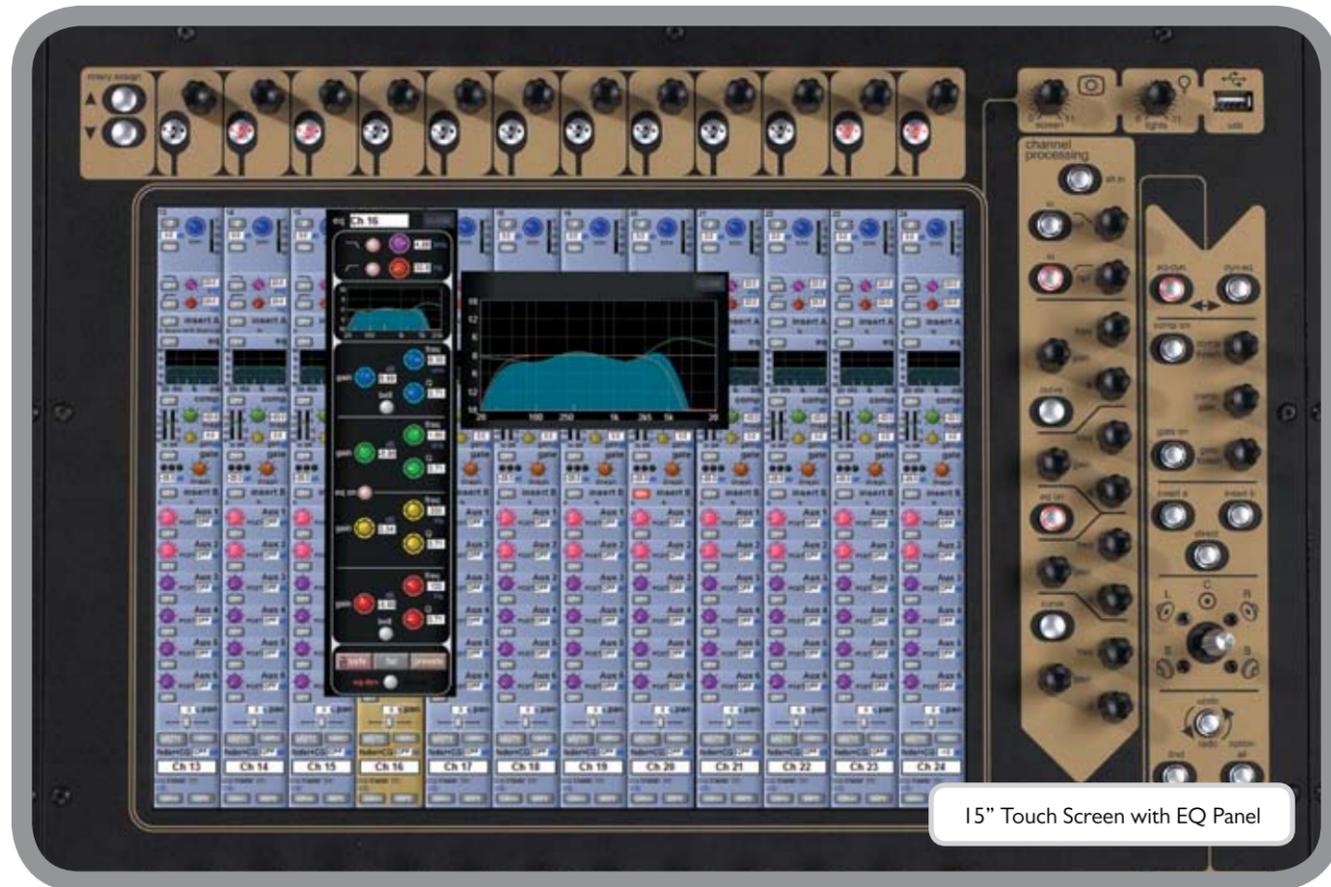
This potent combination provides a stunning level of instant controllability over multiple functions. It supports a comprehensive control surface with 37 motorised faders, dedicated and multi-function control knobs and electronic labelling.

It also provides an extensive range of built-in, world-class effects, reverbs, dynamics, output matrix and more. Plus that huge, glorious interactive touch screen makes the SD Series a pleasure to mix on and, of course, the smoothest, cleanest and warmest digital console sound yet devised - at any price!

These facilities are constantly available across every one of the SD8's 60 mono or stereo channels – the equivalent of 120 channels of full DSP processing. Thanks to the combined power of the SD8's technologies, the number and quality of effects, dynamics or other functions available to all channels simultaneously is never compromised or reduced, no matter how you have the console set up.

Recognising the ever growing need for many outputs to drive multiple loudspeaker arrays, monitors and more, the SD8 provides as standard, a 12 x 12 output matrix its 12 busses being additional to the console's 24 stereo, solo and master busses.





15" Touch Screen with EQ Panel



15" Touch Screen with Dynamics Panel



Bank Switches & Labels

Feature packed

All the essentials you'd expect in a DiGiCo console are here, even if many come as a revelation at this price point.

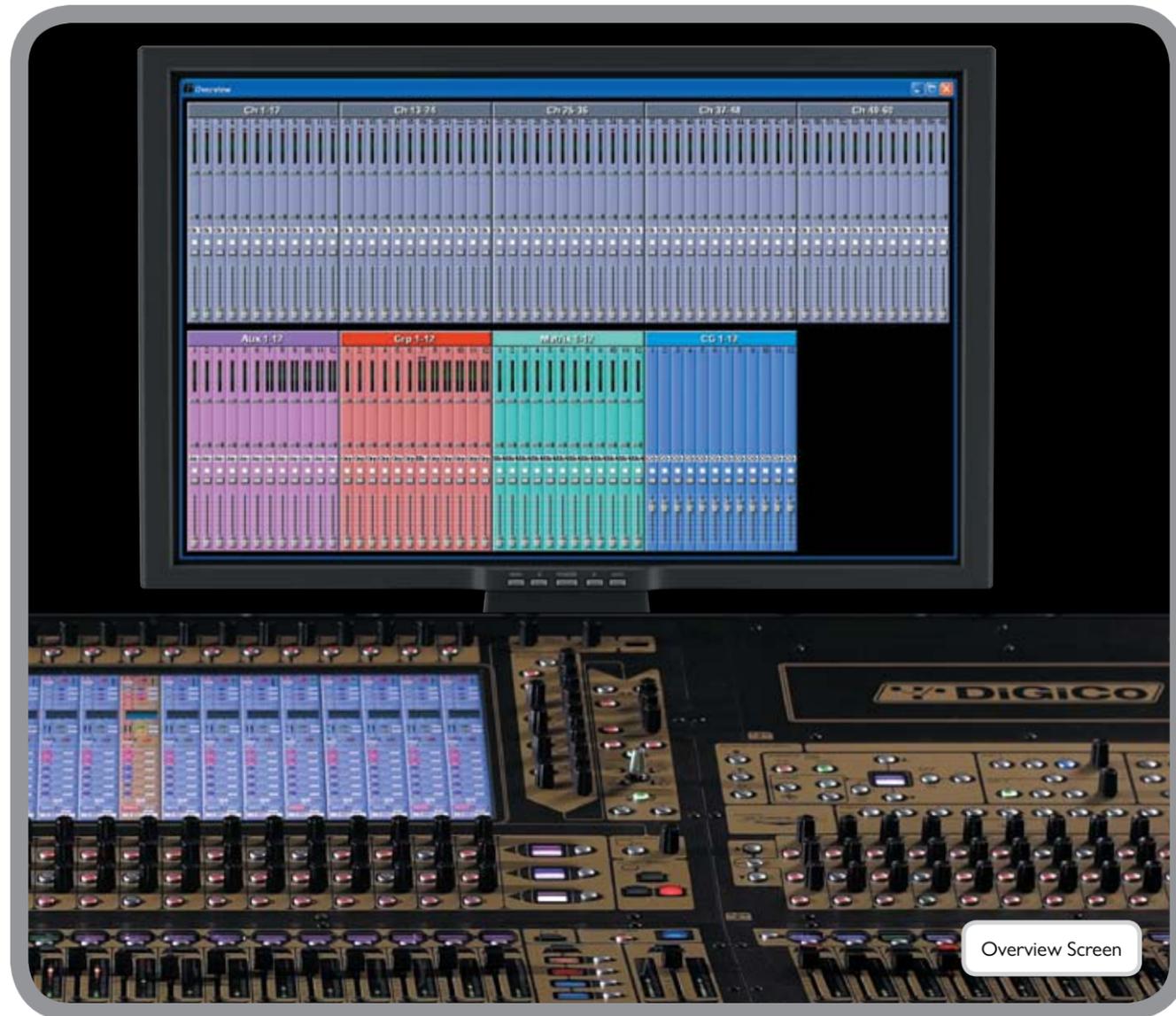
The most striking single feature is the large (15"), super high resolution, touch sensitive TFT LCD backlit display. This rich mine of real-time information is the SD8's primary command centre and works completely intuitively with every other control of the console, automatically displaying functions that are exactly relevant to what you're doing right now. Because speed of operation is high up the SD8's design priority list, this approach continues throughout the worksurface. Look for menus and submenus, and you'll look in vain as far as all major operations are concerned. A physical fader, knob or backlit electronically labelled button is either provided as standard for every major mix function, or can be programmed onto one of the user macro buttons.

The 24 main channel faders and 12 assignable aux and master faders are smooth, top quality, 100mm long throw motorised types, accurate, durable and long proven. Touch sensitive fader caps put even more intuitive controllability right where you need it. Each bank of 12 faders can be instantly assigned as channels or masters, allowing all 36 main faders to control inputs or AUX sends if desired, while any bank of 12 can be assigned to the touch screen for fine tuning.

Also familiar to D Series users is the SD8's snapshot flexibility – a feature as vital today for smaller theatre and touring acts as it is for the largest productions. It provides such features as global scope, snapshot specific recall, scope and crossfade, plus the ability to take the console offline enabling snapshot editing without affecting audio. There are also eight, user defined Macros' for fast access to key parameters. For users upgrading from analogue or a budget digital desk, the SD8's snapshot and Macro facilities will open an exciting new realm of possibilities.



Snapshot Screen



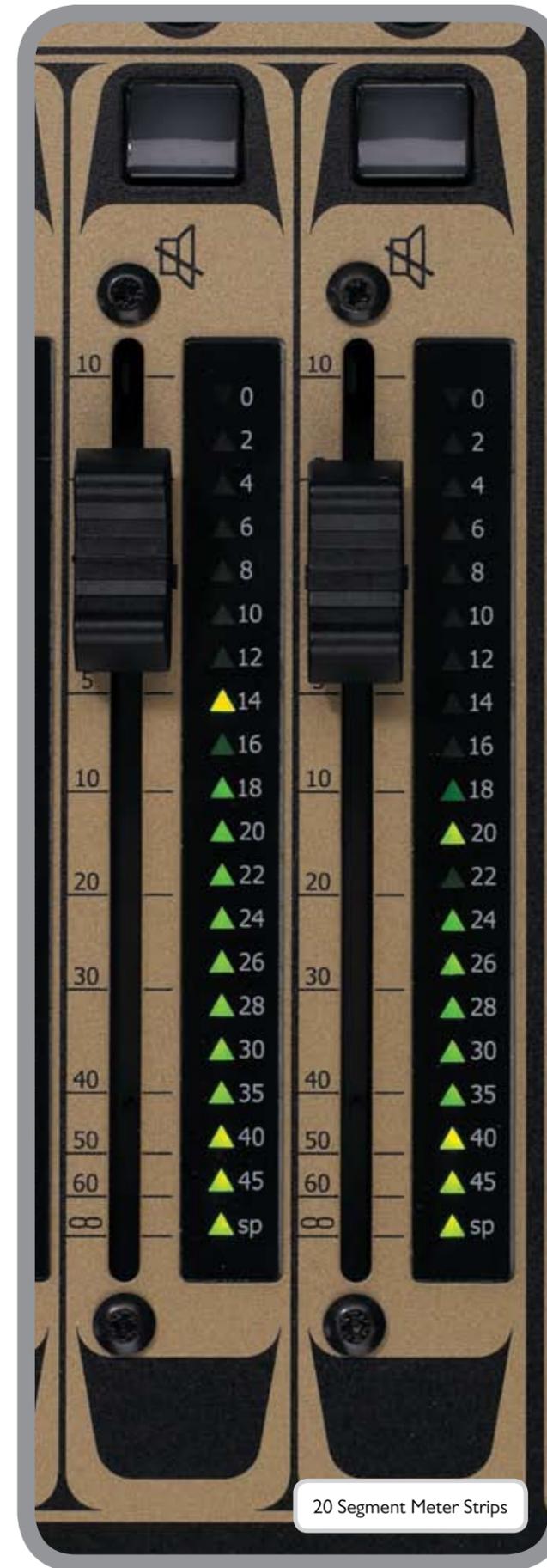
Overview Screen



FX Rack



12 x 12 Matrix



20 Segment Meter Strips

A clearer picture

With the SD8 there's no need to search for information – you always have a clear picture of every part of the signal path.

As well as the built-in touch screen, an SVGA output allows you to run an external overview screen, while each physical fader is accompanied by a meter integrated into the worksurface with a polycarbonate overlay, eliminating the need for a bulky meter bridge.

Alongside each motorised fader is another important touch of clarity. On the one hand, DiGiCo's designers wanted to place as much information as possible right where your hands normally are – at the faders. On the other, they also wanted to keep the console frame as low-profile as possible, so that when you're mixing from a position of restricted visibility, you don't have to peer over a tall meter bridge.

The answer:- high resolution, 20-LED bargraph meters, right beside each channel fader.

Goodbye, outboard racks

A wealth of onboard effects, EQ and dynamics processing greatly reduces the need for external processing. 6 onboard stereo effects are available at all times with a choice of reverbs, delays and more. 12 graphic equalisers can be assigned across any of the busses or channels and the power of Stealth Digital Processing™ ensures that every channel, every buss and every matrix output is equipped with 4 bands of parametric EQ, 24dB high and low pass filtering (as on the SD7), along with a fully-specified single band compressor, gate and a delay offering up to 1.3 seconds per channel.

Dual solo busses

For the first time in a mid-price console, the SD8 offers not one but two solo busses – excellent for monitor mixing, allowing separate soloing facilities for wedges and in-ear monitors.

Each solo buss can be selected as mono, stereo, PFL, AFL or solo in place – versatility that's unique to the SD8 in its price range.



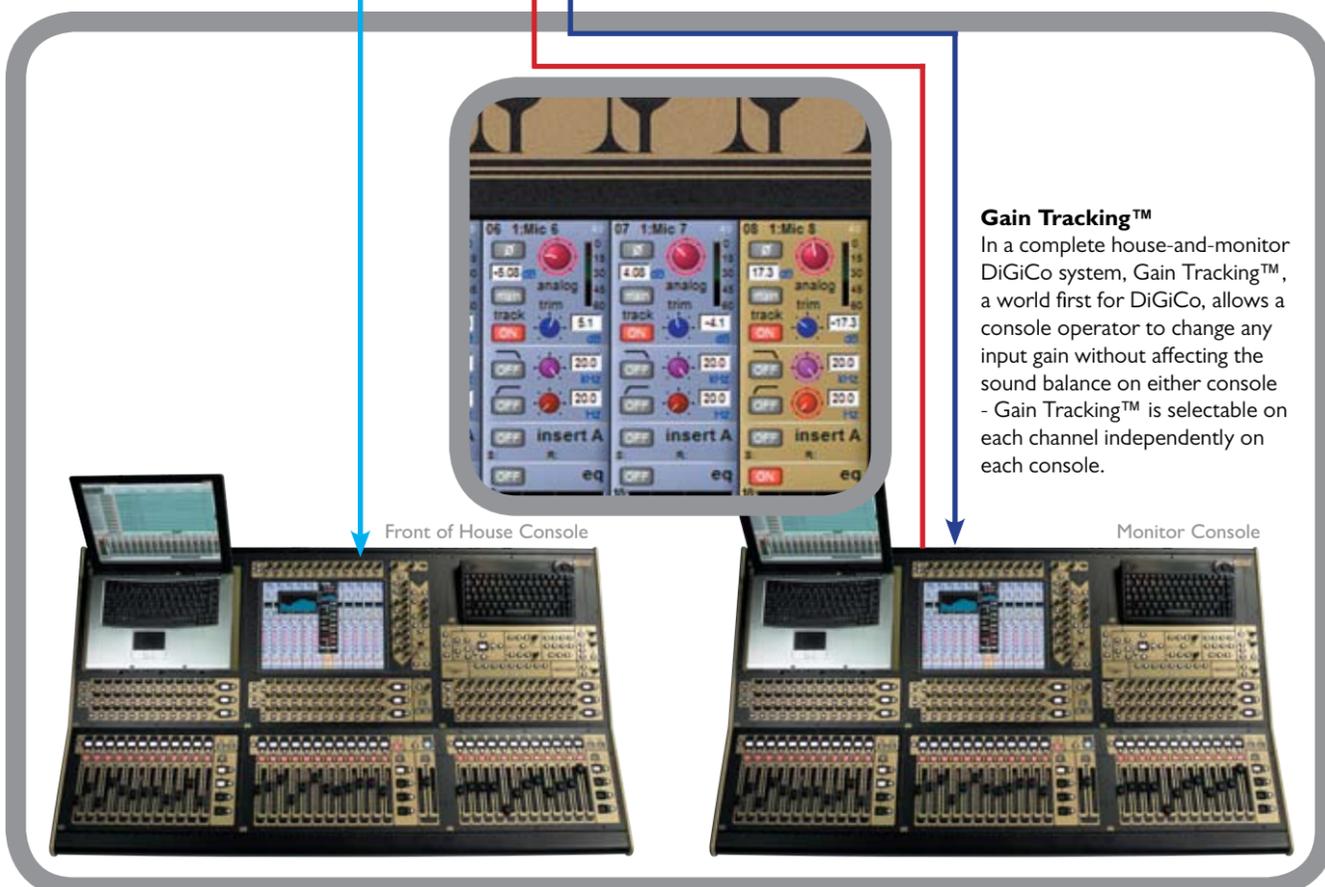
12 Graphic Equalisers



MaDi Rack



MaDi Rack Output Card Options



Gain Tracking™
 In a complete house-and-monitor DiGiCo system, Gain Tracking™, a world first for DiGiCo, allows a console operator to change any input gain without affecting the sound balance on either console - Gain Tracking™ is selectable on each channel independently on each console.

The complete digital package from stage to FOH

The SD8 is much more than just a powerful worksurface. It provides you with a complete digital package from stage to your mix position.

Included with it is a dedicated SD8 stage MaDiRack, which serves as system input, digital/analogue signal splitter and MADI digital output, along with 100 metres of touring quality MADI digital cable. So it's goodbye to the heavyweight analogue multicore and hello to 100% noise free, pure digital signal from stage to console – a significant cost saving too, especially for installed systems.

As a further touch, the worksurface boasts full Gain Tracking™, an advanced feature of all DiGiCo consoles. This allows FOH and monitor consoles to share inputs, yet have independent gain structures. The MaDiRack has 48 microphone inputs which are complemented by 8 analogue outputs as standard. A further 16 analogue, AES/EBU or Aviom outputs can be fitted to allow for any connection requirements, whether feeding a crossover digitally or for IEM.

The SD8's dual BNC MADI connections are the key to another remarkable aspect of the package – the ability to make live multitrack recordings of rehearsals and shows straightforward and inexpensive.

While one MADI is used for the stage rack, the other is ready for use for live recording of all 48 inputs to any MADI compatible recording system. You'll notice the SD8's worksurface incorporates a convenient flat area at top left to hold a laptop – with sturdy steel locating pegs to keep your PC or Mac in place when the joint is jumping.

Hook up a laptop running Logic, Cubase, Nuendo, Samplitude, Reaper, Pro Tools or any other leading multitrack recording software to the dedicated MADI port on the console's left side and you're in business with an instant, low cost, studio quality 48 track recording and playback set-up.

Perfect, too, for fine-tuning scenes and settings at your leisure.

The worksurface itself provides more I/O – 8 mic/ line inputs, 8 line outputs and 8 AES inputs and outputs.

Finally, DiGiCo will offer an optical output option as a special order item.

Built for the road

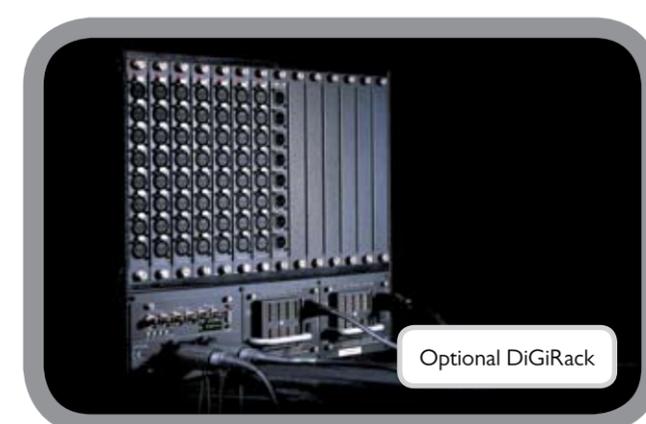
Every inch an engineer's console, the SD8 is designed for the rough and tumble of the road, the pressure of corporate events and festivals, the rehearsals and nightly changes of operator in the theatre world as well as the unique challenges of providing excellent, repeatable audio for houses of worship.

Powerful as it is on the inside, the SD8 is ready for everything the road can throw at it too. A sturdy steel chassis provides excellent rigidity, while the laminated worksurface is highly resistant to wear and tear. Every aspect of the worksurface and the MaDiRack exudes DiGiCo quality, from the perfectly weighted encoder wheels and faders to the durable silk screening and solid construction.

In the worksurface a dual, hot-swappable, integrated switch-mode power supply provides peace of mind and is designed for world-wide use.



Optional MiNiRack



Optional DiGiRack

DiGiCo SD8

Hear The Future Don't Listen To The Past



SD8 MaDi Rack. Up to 48/24 with 100M/328ft Digital snake. Analogue, AES/EBU, and Aviom Output Options.

(Standard DiGiRack and MiNiRack with all I/O configurations also available as option)



Only 2 connections required for open platform 56 tracks of recording and playback



Network connection for full remote control of SD8.



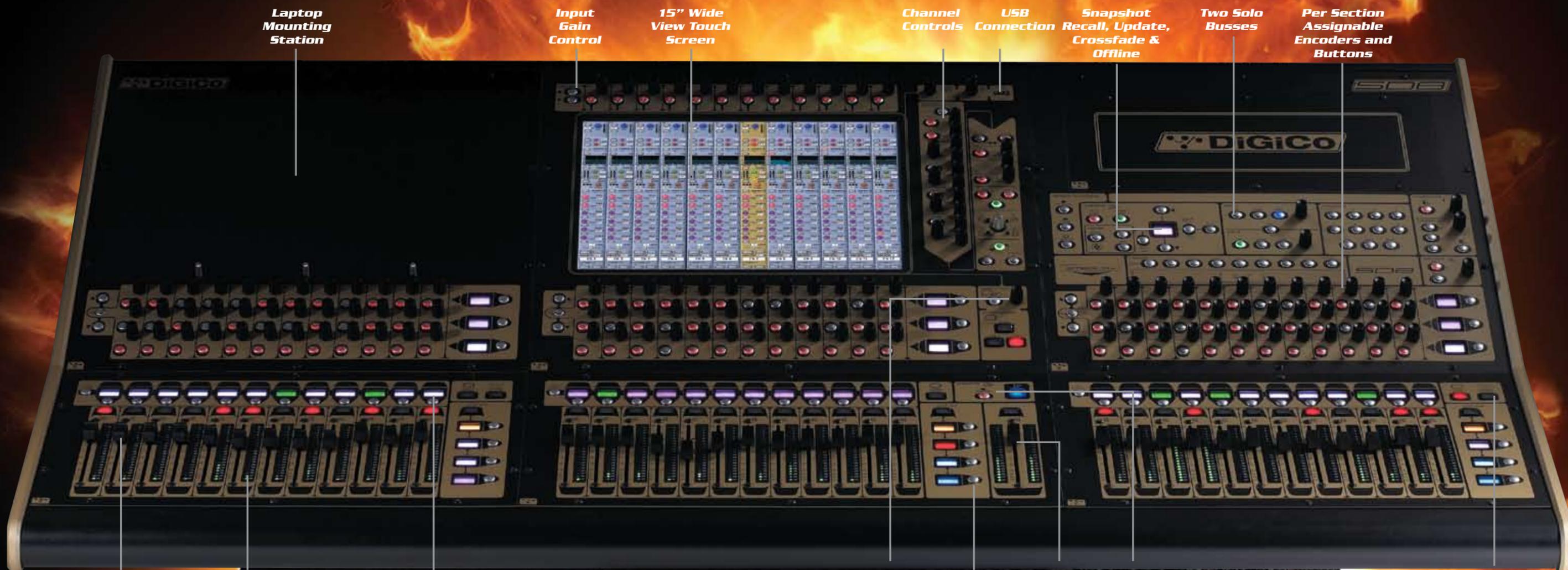
Local I/O
8 Analogue inputs and outputs.
8 AES/EBU (mono).



Simple copy to MADi function allowing all remote Mic Pre's to be fed to recording device via console.



One button press for instant, seamless playback of recorded material.



Laptop Mounting Station

Input Gain Control

15" Wide View Touch Screen

Channel Controls

USB Connection

Snapshot Recall, Update, Crossfade & Offline

Two Solo Busses

Per Section Assignable Encoders and Buttons

100mm Touch Sensitive Faders

20 Segment Meter Strips

3 Line Multi Function LCD Displays

Touch Turn Encoder and Button

Fader Bank Assign

Master Fader

Previous and Next

Screen and Fader Assign



Dual Hot-Swap PSUs

Optics Upgrade

AES Word Clock

Sync

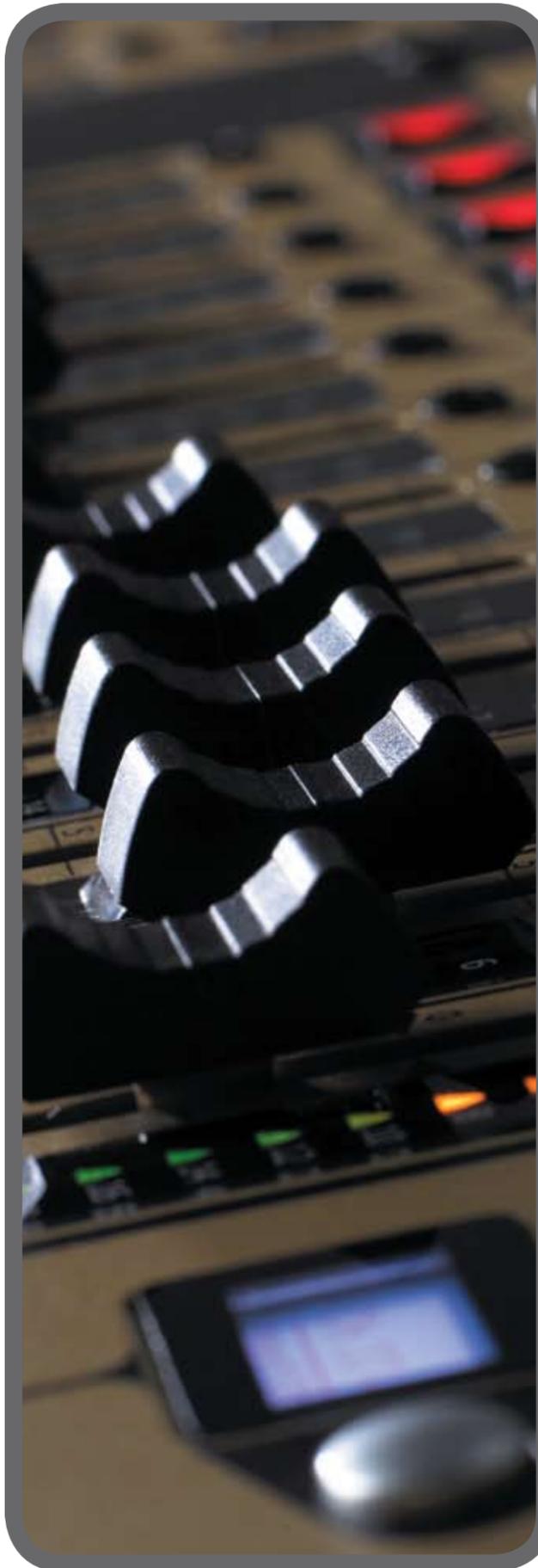
MADI 2 for Recording or second Stage Rack

MADI 1 for Stage Rack

Overview Screen

Local I/O

3 Pin Light Connection



SDB TECHNICAL SPECIFICATIONS

General Specifications

Faders	37 x 100mm touch-sensitive, motorised
Screens	1 x 15" (38cm) LCD high - resolution touch screen
Meters	38 x 20-segment LED bargraph
Input Channels	60 Mono or Stereo channels
Busses	24 Mono or Stereo busses + LR master
Solo busses	2 stereo busses
Matrix	12 x 12 matrix (additional to busses above)
Control Groups	12, selectable for VCA-style, Moving fader, Mute Group
Graphic Eq	12 x 32-band, Gain +/- 12dB
Internal FX	6 Stereo FX processors
Local I/O	8 x mic/line I/O, 8 x AES/EBU I/O (mono)
MADI interface	2 redundant interfaces, 75 ohm BNC connectivity
Optic interface	Optocore (Optional factory fit only)
MIDI interface	In / Out / Through
VGA port	DB-15 mini-female (1024 x 768 resolution)
USB ports (3)	USB 2
Light connection (2)	XLR3 1.2 – 12V
Ext Sync	Word clock, AES, MADI, Optics
Headphone	TRS unbalanced / 8-600 ohms 1/4 inch Jack
Dimensions	1347mm (w) x 811mm (d) x 254mm (h)
Weight	71.3Kg (149.3Kg with optional flightcase)
Flightcase (Optional)	1517mm (w) x 1133mm (h) x 452mm (d)
Power Requirements	90-264 VAC, 47-63Hz Auto Sensing, 230VA typical, 295VA peak (meters full, faders moving)
Redundancy	Internal PSU x 2

DiGiCo UK Limited reserves the right to make any changes at any time, without notice, in prices, colours, materials, specifications and models, and also to discontinued models. E&OE

Audio Specifications

Sample rate	48kHz or 44.1kHz
Processing delay	2ms typ (60 stereo channels, stage input through L-R buss to stage output)
Internal processing	Up to 40-bit, floating point
A>D & D>A	24-bit Converter Bit Depth
Frequency response	+/- 0.6dB (20Hz – 20kHz)
THD	<0.05% @ unity gain, 10dB input @ 1kHz
Channel Separation	Better than 90dB (40Hz – 15kHz)
Residual output noise	<90dBu typ (20Hz - 20kHz)
Microphone Input	Better than -126dB Equivalent Noise
Maximum Output Level	+22dBu
Maximum Input Level	+22dBu

Processing Channel Specifications Input Channel

Name	User-defined / Presets
Channel Selection	Mono / Stereo
Input Routing	Main & Alternate Input
Analogue Gain	-20 to +60dB
Phase	Normal / Reverse
Digital Trim	-40 to +40dB
Delay	<1.3 sec (coarse & fine control)
LPF	20 – 20kHz, 24dB / Oct
HPF	20 – 20kHz, 24dB / Oct
Insert A	(pre eq/dyn) On/Off
Insert B	(post eq/dyn) On/Off
Equalisation	4 band PEQ (hi & lo bands switchable shelving or bell) Freq; 20 – 20kHz Gain; +/- 18dB Q: 0.1 -20 (parametric) / 0.10-0.85 (shelf)
Compressor	on/off Threshold; -60 – 0dB Attack; 500us – 100ms Release; 10ms – 10s Ratio; 1:1 – 50:1 Gain; 0 to +40dB with Autogain option Link; any channel / buss
Gate	on/off Threshold; -60 – 0dB Attack; 50us – 100ms Hold; 2ms – 2s Release; 5ms – 5s Range; 0 - 90dB Key; Any source Key listen Freq/width; 20 – 20kHz

EQ/Dyn order	EQ/Dyn or Dyn/EQ
Mute	Channel mute / hard mute
Solo	Solo Buss 1 / Solo Buss 2 / Both, Auto solo
Channel Safe	Input, eq, dyn, aux, pan, fade/mute, inserts, buss, directs, full safe
Output Routing	Buss, Insert A, Insert B, FX Direct: on/off, pre-mute / pre-fade / post-fade, level +/- 18dB
Fader	100mm motorised fader -∞ to +10dB

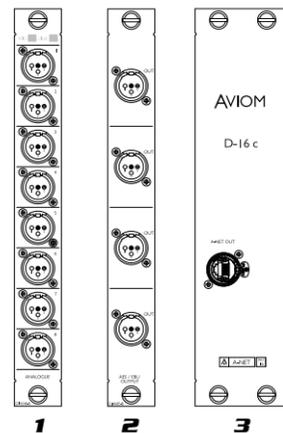
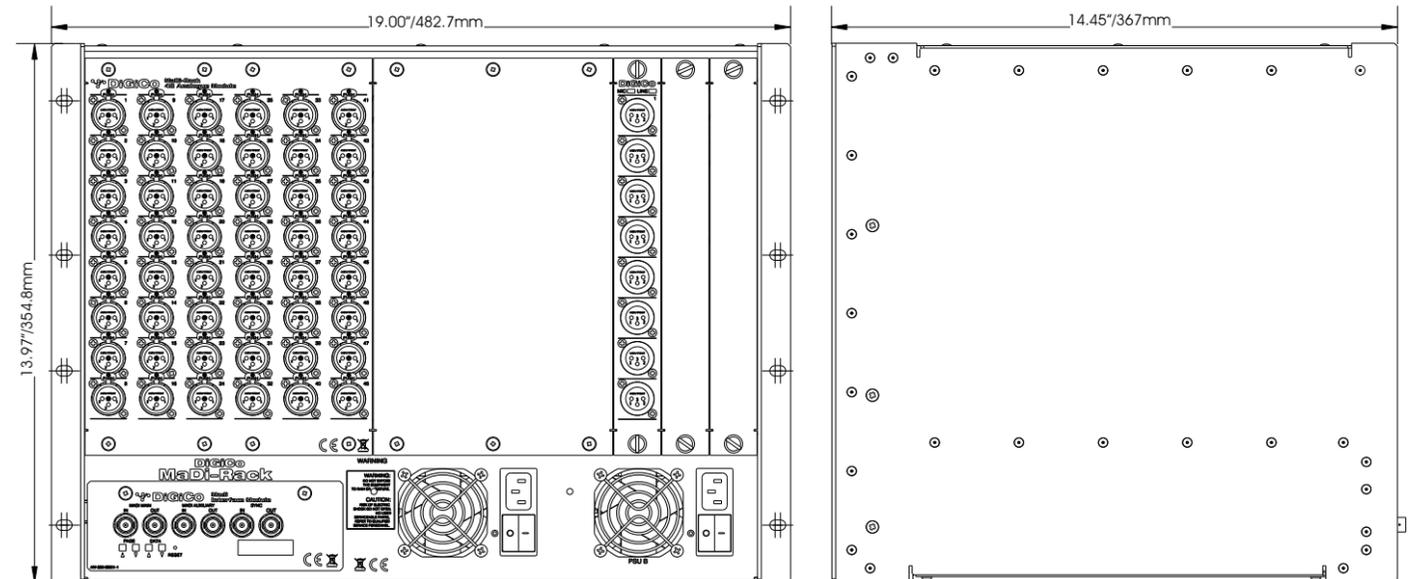
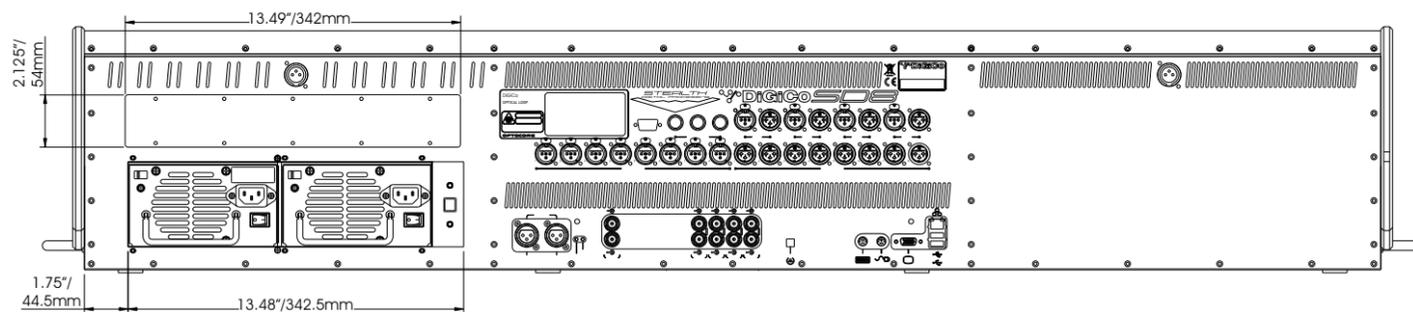
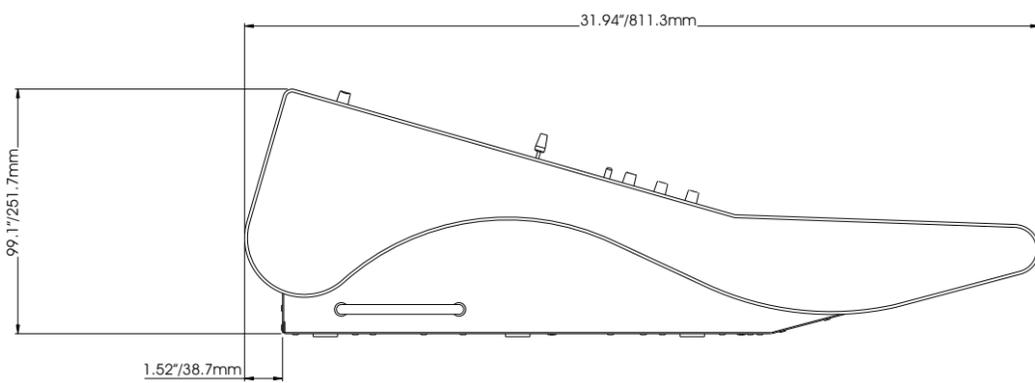
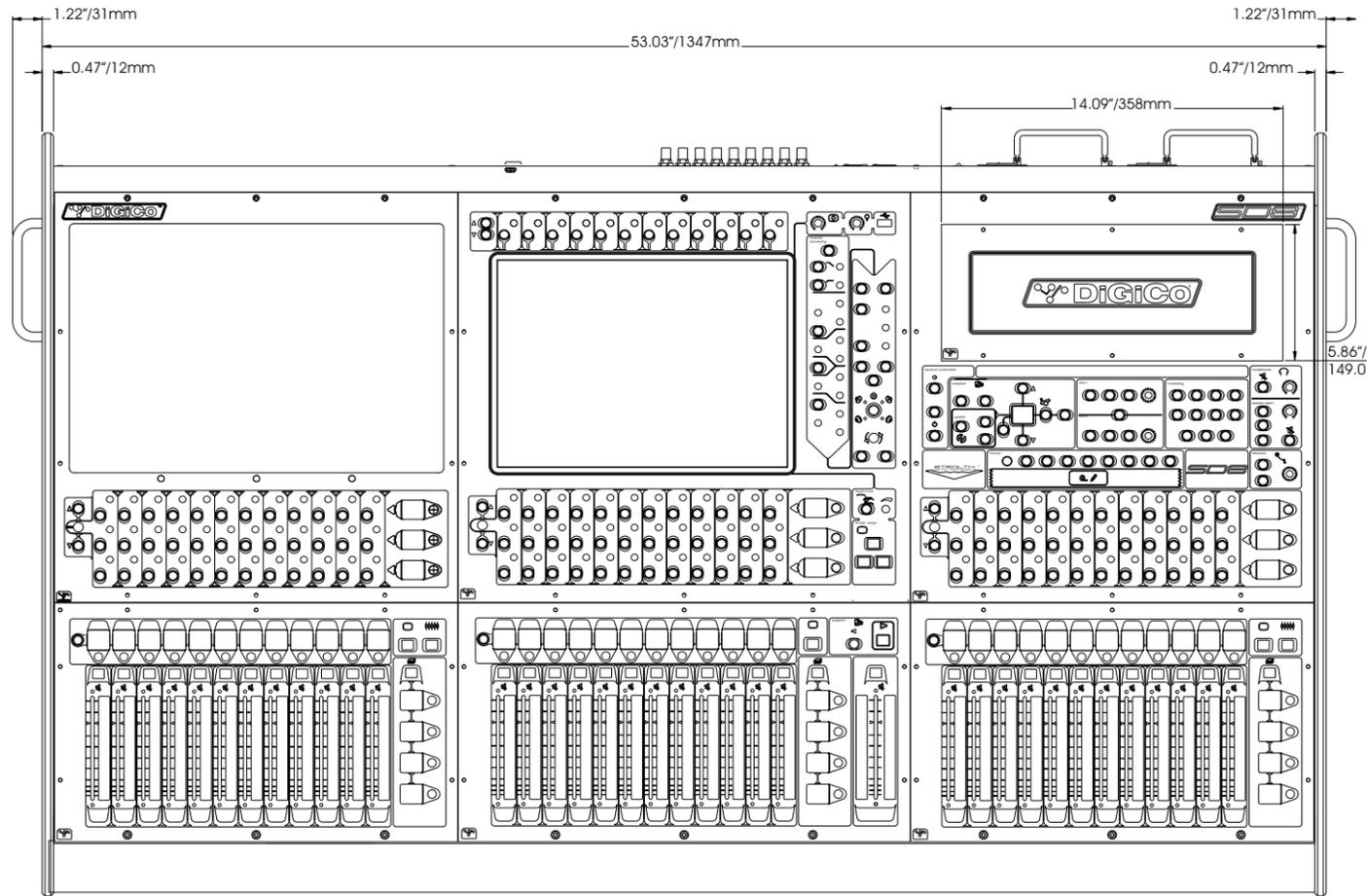
Processing Channel Specifications Aux / Group / Matrix Output

Name	User-defined / Presets
Phase	Normal / Reverse
Digital Trim	-20 to +60dB
Delay	<1.3 sec (coarse & fine control)
LPF	20 – 20kHz, 24dB / Oct
HPF	20 – 20kHz, 24dB / Oct
Insert A	(pre eq/dyn) On/Off
Insert B	(post eq/dyn) On/Off
Equalisation	4 band PEQ (hi & lo bands switchable shelving or bell) Freq; 20 – 20kHz Gain; +/- 18dB Q: 0.1 – 20 (parametric) / 0.10 – 0.85 (shelf)
Compressor	on / off Threshold; -60 – 0dB Attack; 500us – 100ms Release; 10ms – 10s Ratio; 1:1 – 50:1 Gain; 0 – 40dB with Autogain option Link; any channel / buss
Gate	on/off Threshold; -60 – 0dB Attack; 50us – 100ms Hold; 2ms – 2s Release; 5ms – 5s Range; 0 - 90dB Key; Any source Key listen Freq/width; 20 – 20kHz
EQ/Dyn order	EQ/Dyn or Dyn/EQ
Mute	Channel mute / hard mute
Solo	Solo Buss 1 / Solo Buss 2 / Both, Auto solo
Channel Safe	trim, eq, dyn, fade/mute, inserts, outputs, full safe
Output Routing	Outputs, Insert A, Insert B, FX
Fader	100mm motorised fader -∞ to +10dB

DiGiCo

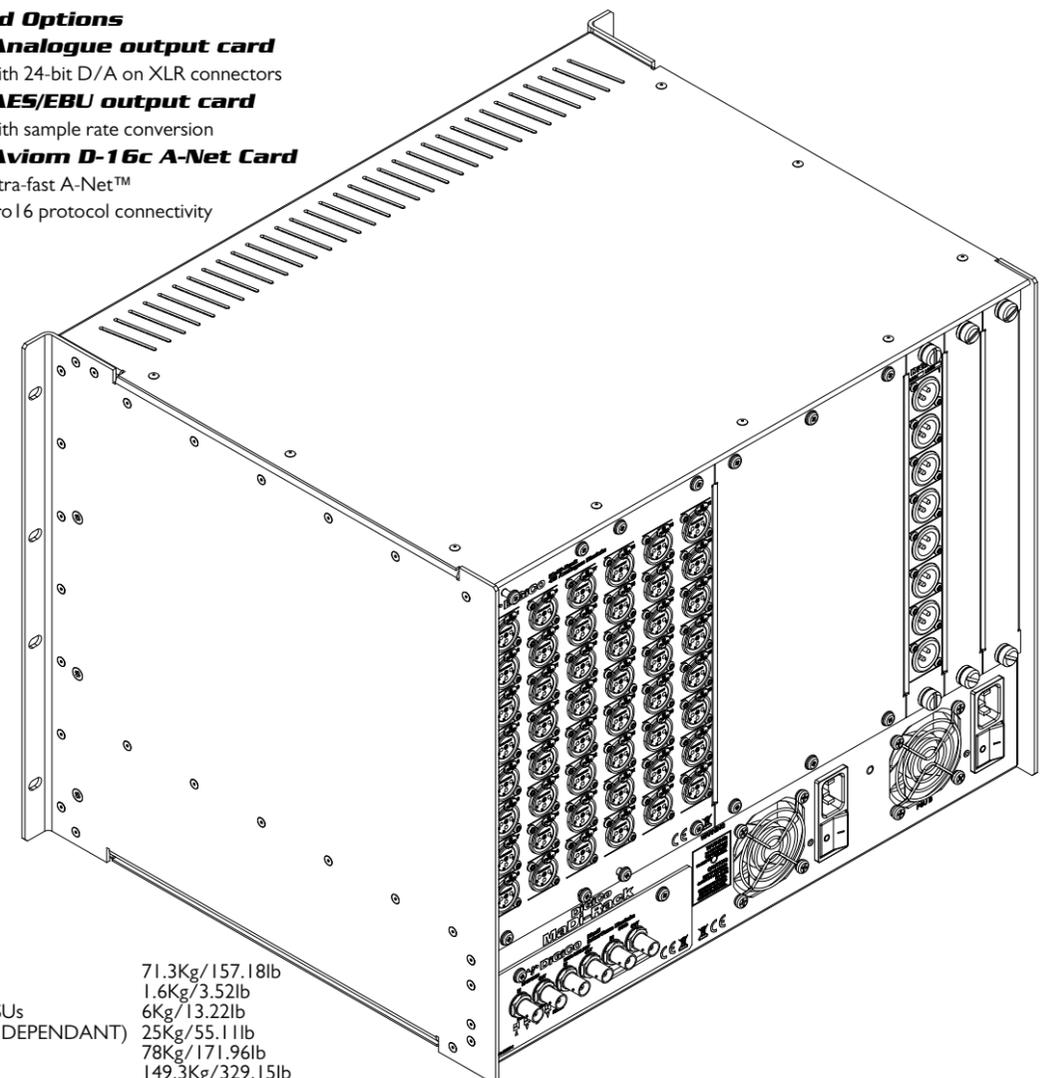
SD8

Technical Specifications



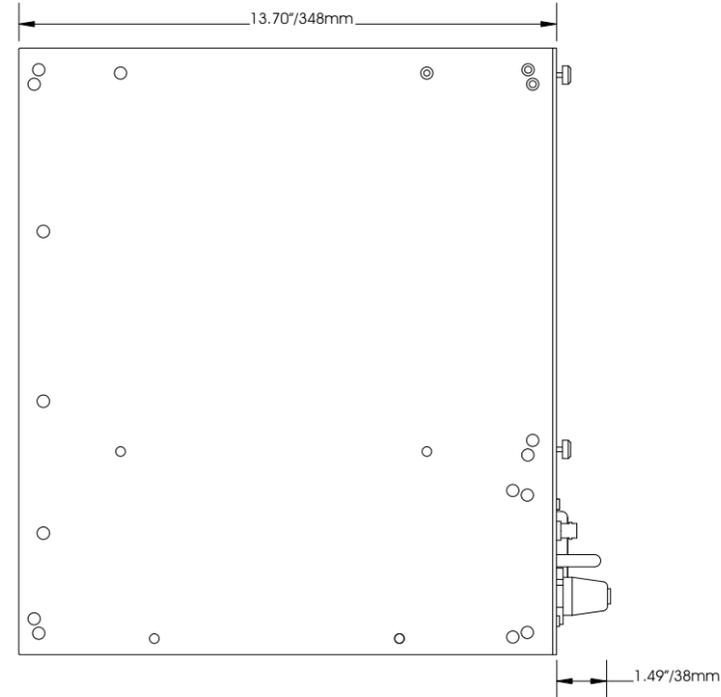
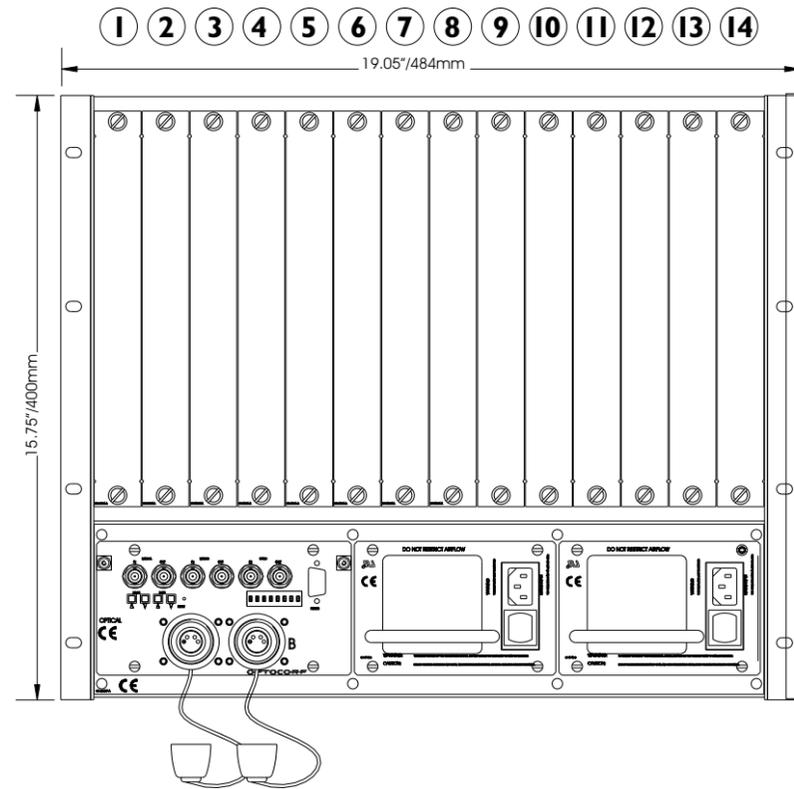
Card Options

- 1. Analogue output card**
with 24-bit D/A on XLR connectors
- 2. AES/EBU output card**
with sample rate conversion
- 3. Aviom D-16c A-Net Card**
ultra-fast A-Net™
Pro I6 protocol connectivity



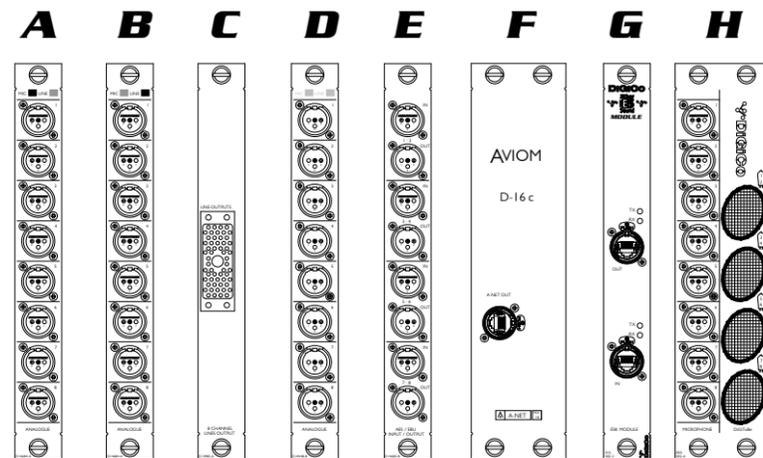
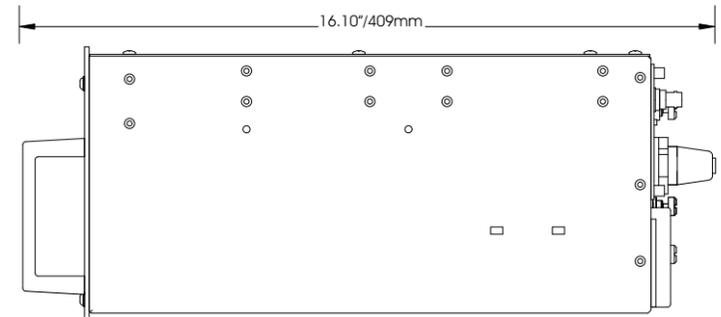
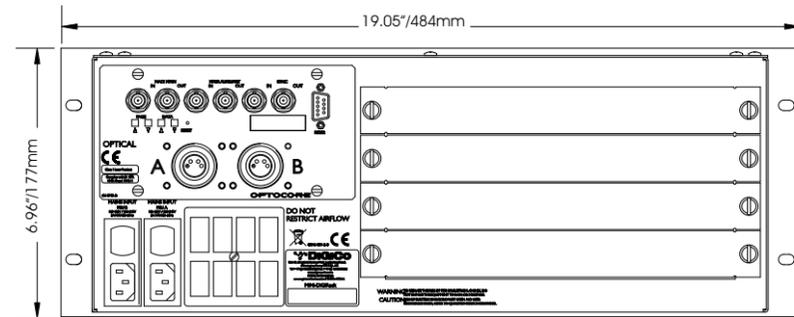
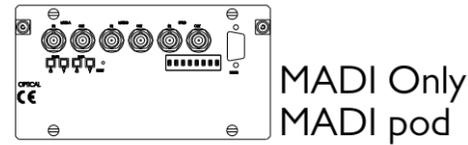
DiGiCo SD8 Notes

- | | |
|--|------------------|
| 1. SD8 WEIGHT | 71.3Kg/157.18lb |
| 2. SINGLE PSU | 1.6Kg/3.52lb |
| 3. PSU CHASSIS COMPLETE WITH 2 PSUs | 6Kg/13.22lb |
| 4. RACK WEIGHT (CONFIGURATION DEPENDANT) | 25Kg/55.11lb |
| 5. FLIGHT CASE | 78Kg/171.96lb |
| 6. FLIGHT CASE (PACKED) | 149.3Kg/329.15lb |



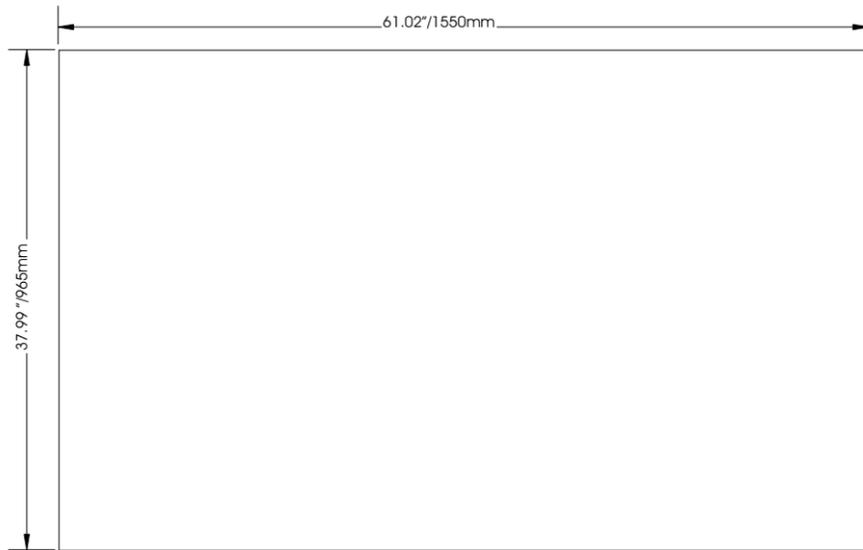
DiGiRACK
9U 19" Rack Mount Weight (Unpacked) 36kg/80lb Weight (Packed) 56kg/124lb
Optional Configurations (1-7 Inputs 8-14 Outputs)

Mini DiGiRACK
4U 19" Rack Mount Weight (Unpacked) 14kg/30.86lb Weight (Packed) 20kg/44.09lb
Optional Configurations (1-4 Inputs 8-11 Outputs)

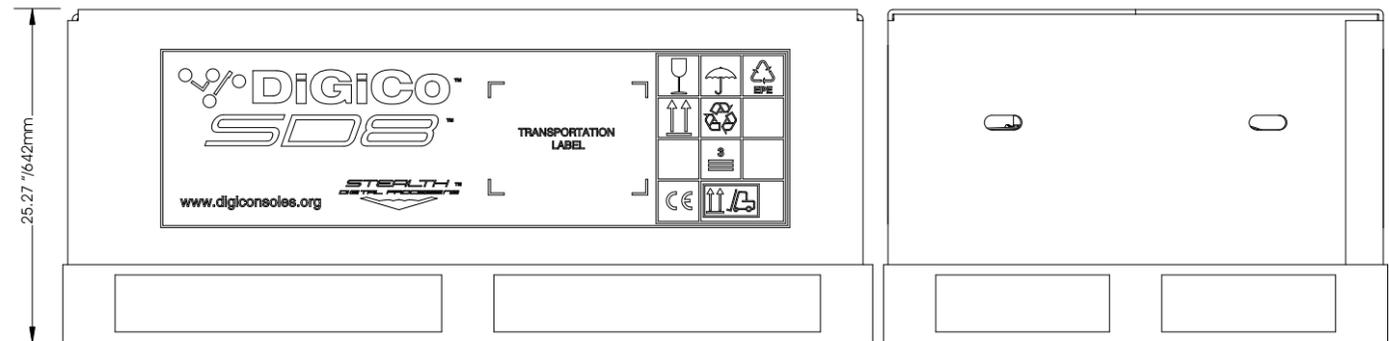


Card Options
DiGiRack and MiNiRack

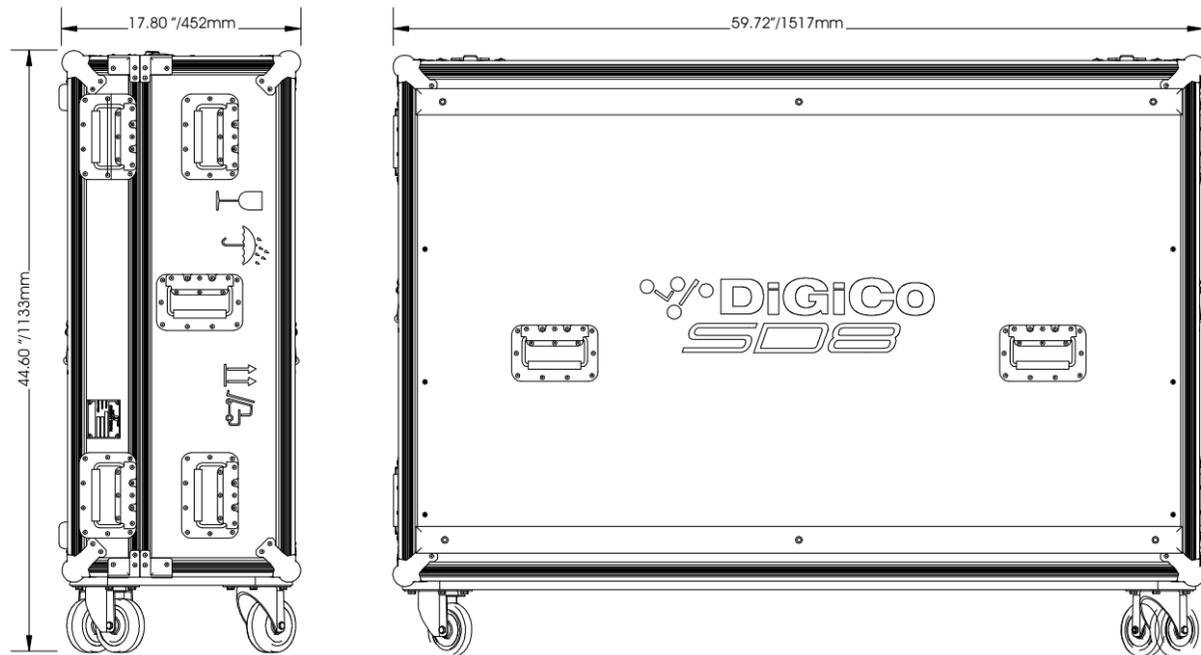
- A. Mic input card**
with 24-bit A/D on XLR connectors
- B. Line input card**
with 24-bit A/D on XLR connectors
- C. Analogue input card**
EDAC connector with 24-bit A/D, mic & line inputs
- D. Analogue output card**
with 24-bit D/A on XLR connectors
- E. AES/EBU input/output card**
with Bi-directional sample rate conversion
- F. Aviom D-16c A-Net Card**
ultra-fast A-Net™ Pro I6 protocol connectivity
- G. Ethersound I/O Card**
8 channel input/output and control card
- H. DiGiCo D-TuBe**
Remote controllable tube Mic pre amp



CARTON
(NOT TO SCALE)
THE TOTAL PACKAGING WEIGHT FOR THE SD8 CONSOLE IS 36.73KG / 80.97LB



PALLET FOR ILLUSTRATION PURPOSES ONLY



FLIGHTCASE
(NOT TO SCALE)

D SERIES



SD SERIES





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