



# DiGiCo

# SDB



A new world of performance and versatility in a choice of frame sizes to suit your application.





## SD8

A new world of performance and versatility in a choice of frame sizes to suit your application.

The SD8 and the SD8-24. The power, finesse and clarity of DiGiCo digital mixing with Stealth Digital Processing™, and a choice of standard or ultra compact frame sizes.

The DiGiCo SD8 Series 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.

Choose either the 'standard' SD8, with triple fader banks and a laptop rest, or the SD8-24, a diminutive powerhouse which packs all of the SD8's features into a space saving frame with dual fader banks less than a metre wide. It's perfect for any application where space is at a premium – from corporate events to

the West End and Broadway; from smaller theatres and colleges to houses of worship and tours.

Either way, whether you're upgrading from an analogue desk or adding more flexibility to an existing system, the SD8 Series offers DiGiCo's accurate and sonically pristine Stealth Digital Processing™.

It's also the world's first 'affordable' console series 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.

Both versions house an enhanced feature set that provides a powerful array of live sound

engineering tools, made yet more powerful with the Overdrive II package, extended Matrix and Graphic EQ facilities, and a powerful new multi-level Security system that allows you to 'lock out' anything from a single fader to everything but a single fader, be it a pastor's mic or a VT feed.

The SD8 Series 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 a breeze – 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.

Defying the limits of conventional consoles, the SD8 series can potentially handle a staggering 120 inputs simultaneously, thanks to our Flexi Channel feature. With Flexi Channel, each of the 60 input channels can be selected to be either mono or stereo, ideal nowadays where so many sources are stereo (eg keyboards / hard disc playback / intro music / FX returns). In addition, each mono Flexi Channel has a Main and Alternate input... the days of sacrificing a channel for use as a 'spare' are long gone.

Moreover, the ability to assign and unassign any Flexi Channel or buss to any fader

allows you to easily build custom fader banks – making the entire work surface fully customisable. For example, you can set up the desk so that no matter what fader bank you're working with, the lead vocalist can always be on the same fader.

Despite the console's compact footprint, this design 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 – 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, with advanced functions such as channel-specific snapshot control of channel parameters and crossfades.

The master section incorporates 24 graphic equalisers with centre-detent faders for fast system set-up. Stereo or LCR master buss, 24 mono or stereo busses and a powerful 16 x 12 matrix complete the channel and bussing structure. But that's not all, since the SD8 Series also provides dual solo busses for greatly increased flexibility as a monitor console.

The DiGiCo SD8 and SD8-24. A new world of performance and versatility in a choice of frame sizes to suit your application.

# Stealth Digital Processing™ Engine

The latest generation of advanced digital signal processing and audio quality.



- Stealth Digital Processing™, Super FPGA combined with Tiger SHARCS®.



- MADI-Rack connectivity with main and AUX for rack sharing, recording or redundancy.

The SD8 Series 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 labeling.

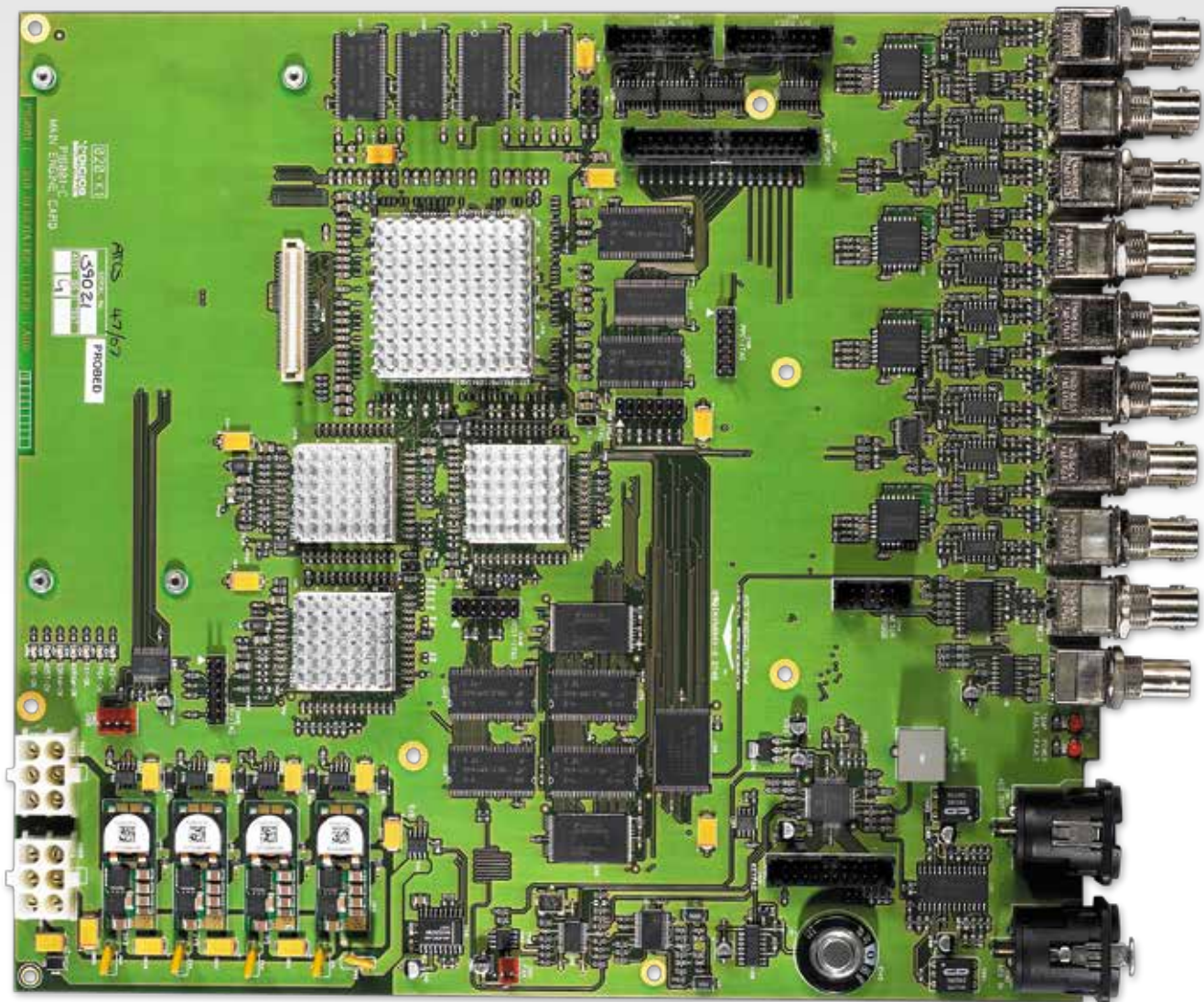
It also provides an extensive range of built-in, world-class effects, reverbs, dynamics, output matrix and more. Plus a huge, high

resolution interactive touch screen that makes the SD8 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 Series' 60 Flexi Channels – the equivalent of 120 channels of full DSP processing. Thanks to the combined power of the SD8 Series 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 Series provides as standard a 16 x 12 output matrix – its 12 busses being additional to the console's 24 mono or stereo, solo and master/LCR busses.





# STEALTH™

DIGITAL PROCESSING

## Feature Packed

The latest generation of advanced digital signal processing and audio quality.

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> 37 motorised touch sensitive faders

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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 Series' 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.

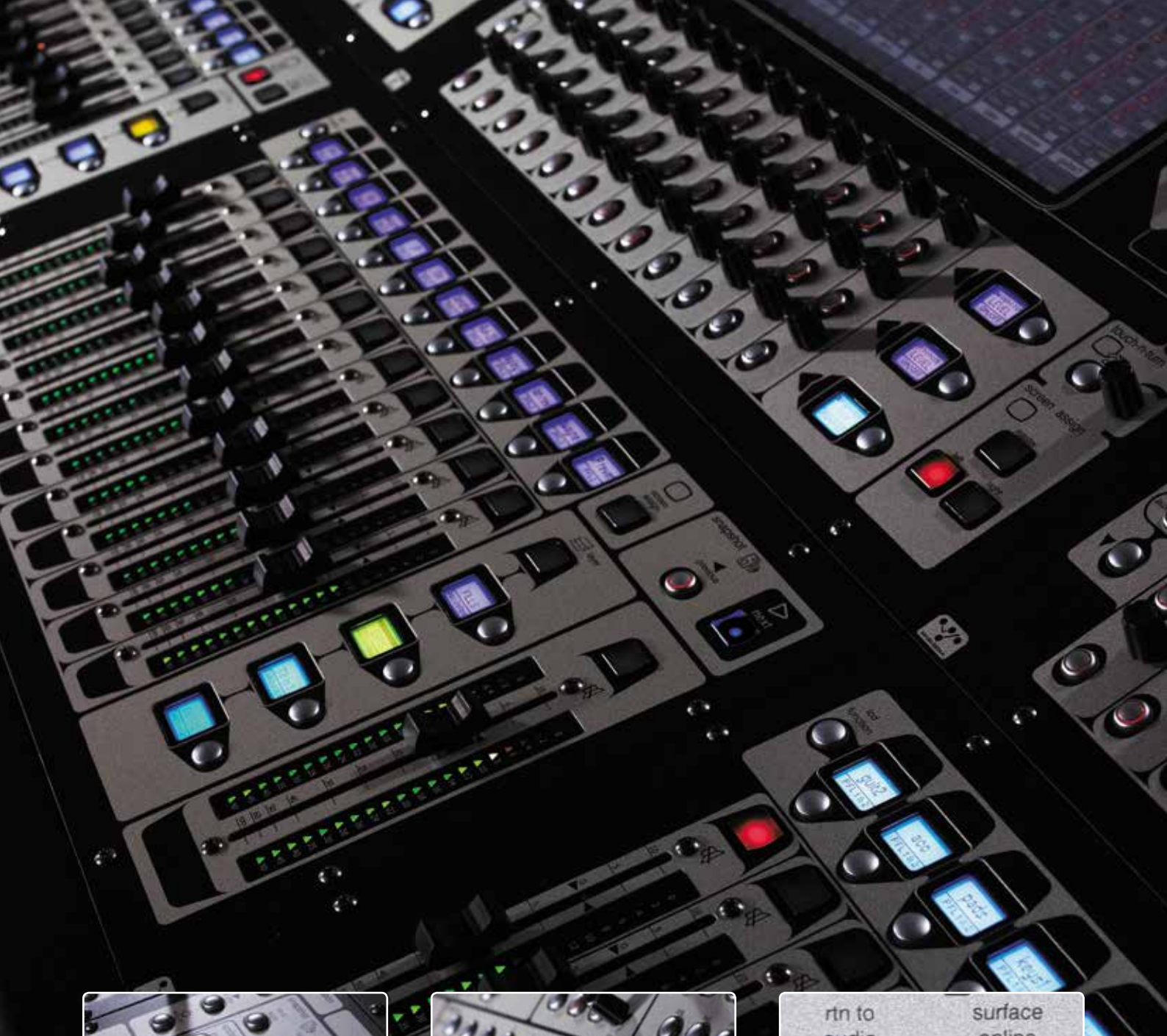
Because speed of operation is high up the SD8 Series' design priority list, this approach continues throughout the worksurface. Look for menus and submenus and you'll look in vain, as far as all major operations are concerned. A physical fader, knob or backlit electronically labelled button is either provided as standard for every major mix function, or can be programmed onto one of the user macro buttons.

The 37 main channel faders (25 on the SD8-24) and the central master fader 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 the main faders to

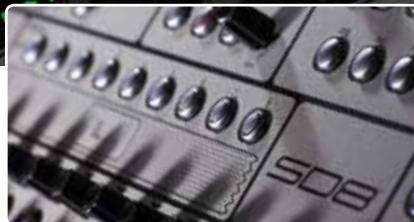
control inputs or AUX sends if desired, while any bank of 12 can be assigned to the touch screen for fine tuning.

Also familiar to D Series users is the SD8 Series' 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 snapshot and Macro facilities will open an exciting new realm of possibilities.





> Flexible Snapshot panel

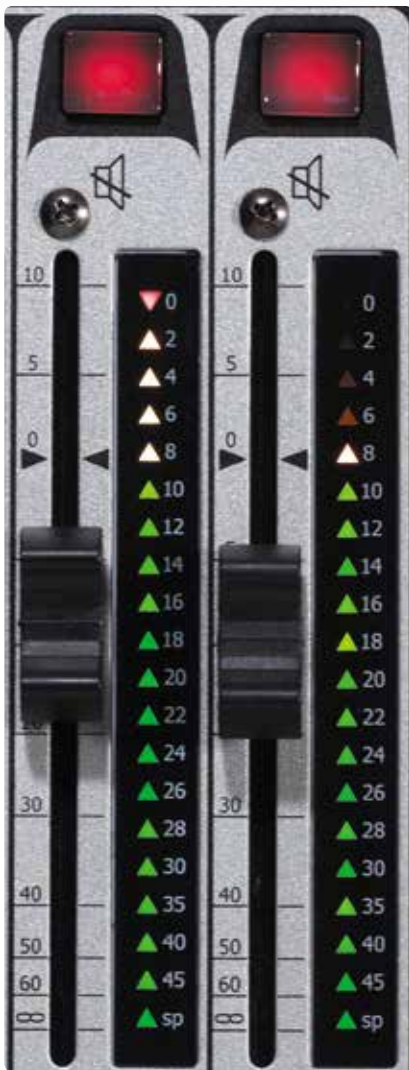


> 8 Macro buttons



> Surface offline capability

## A Clearer Picture



- › Touch sensitive motorised faders with high resolution, 20-LED bargraph meters

With the SD8 Series 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 XGA 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.

### Effects

A wealth of onboard effects, EQ and dynamics processing greatly reduces the need for external processing. 12 stereo floating point effects – including ultra smooth Stealth Reverbs – are available at all times with a choice of reverbs, delays and more.

The power of Stealth Digital Processing™ delivers 24x32 graphic equalisers, assignable across any of the busses or channels, along with 10 channels of mono or stereo 4-band dynamic EQ and 10 channels of multiband mono or stereo compression, plus gate, ducker, de-esser and a delay offering up to 1.3 seconds per channel.

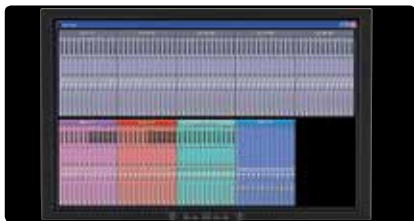
### Dual solo busses

For the first time in a mid-price console, the SD8 Series 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.







> Overview Screen



> 16 x 12 Matrix



> 24 Graphic Equalisers



Laptop Mounting Station

Input Gain Control 15" Wide View Touch Screen

100mm Touch Sensitive Faders

20 Segment Meter Strips

3 Line Multi Function LCD Displays



Dual Hot-Swap PSUs

Optocore Upgrade

AES Clock

Word Clock

MADI 2 for Recording or second Stage Rack



# The complete digital system

## 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 (mono).

Finally, DiGiCo will offer an Optocore interface option as a special order item, giving the ability to connect to the new SD Racks.

### Built for the road

Every inch an engineer's console, the SD8 Series 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 Series is ready for everything the road can throw at it too. A sturdy steel chassis provides excellent rigidity, while the 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.



> MADI Rack output card options



> Optional MiNiRack



> Optional DiGiRack





## Recording and UB MADI

Simple 48 track recording and playback to USB

- > The UB MADI interface is so small and light you can slip it inside your pocket. No bulky power supply required —just a USB 2.0 cable to connect to your computer, two MADI cables to the desk and hit record.



- > The UB MADI works with a PC or a Mac so you won't be limited by your choice of operating system. In addition the UB MADI will work with virtually any digital audio workstation software. \*\*

With the DiGiCo UB MADI USB 2.0 interface it is now even easier to get up to 48 channels of full duplex audio into and out of your PC or Mac. Simply connect the UB MADI to your computer via a USB cable and a MADI stream from the SD8 and you're away. Low latency recording and playback is there for you to complete your virtual sound-check or performance multi-track.

The UB MADI is small and robust and as it is not reliant on the USB's data clock for sync, jitter is not a problem. The device will take the first 48 channels of any 48k AES-10 compliant connected MADI stream or coaxial AES3 (AES/EBU) stereo audio and

clock directly to it. With no input connected the UB MADI will switch to its own, highly stable, internal clock.

UB MADI - It doesn't get much simpler than this.

\*\* For more information on compatible DAW software and minimum recommended computer hardware specification please contact your DiGiCo dealer or DiGiCo technical support.

# SD8 Quick Reference

| Quick Reference                                 |                                                             |
|-------------------------------------------------|-------------------------------------------------------------|
| Maximum Number of Input Processing Channels     | 60 Flexi*                                                   |
| Maximum Buss Count                              | 67***                                                       |
| Max Aux / Sub-Group Busses                      | 24 Flexi* (Full Processing**)                               |
| Matrix (In Addition to Aux/Sub - Group)         | 16 x 12 (Full Processing**)                                 |
| Solo Busses                                     | 2                                                           |
| Max Number of Inputs - Non Optic Consoles       | N/A                                                         |
| Max Number of Inputs - 1 Console on Optic Loop  | 576                                                         |
| Max Number of Inputs - 2 Consoles on Optic Loop | 632                                                         |
| Local I/O Spec                                  | 8x Mic/Line, 8x Line Outputs, 8x AES/EBU I/O (Mono Streams) |
| Max Number of Outputs                           | 576                                                         |
| Max Number of Faders                            | 37 (SD8) 25 (SD8-24)                                        |
| Screen                                          | 1 x 15" Touch                                               |
| External Overview Screen                        | Yes                                                         |
| I/O Expandability                               | Yes                                                         |
| Insert Points / Channel                         | 2                                                           |
| On Board FX                                     | 12                                                          |
| Graphic EQs (32-Band)                           | 24                                                          |
| Dynamic EQ                                      | 10                                                          |
| Buss Parametric EQ                              | 4 Band                                                      |
| Multiband Compression                           | 10                                                          |
| DiGiTuBes                                       | 10                                                          |
| Multi-Channels                                  | Yes                                                         |
| VCA - Style Control Groups                      | 12                                                          |
| Set Spill                                       | Yes                                                         |
| Mute Groups (Part of Control Groups)            | 12                                                          |
| Reorder Busses                                  | Yes                                                         |
| Multi-Operator                                  | By Remote Only                                              |
| Surround                                        | No                                                          |
| MADI Connectivity                               | 2x Redundant Ports                                          |
| Optics                                          | Yes                                                         |
| Snapshot Offline                                | Yes                                                         |
| Snapshot Auto-Update                            | Yes                                                         |
| Sampling Rates                                  | 48 / 96 kHz                                                 |
| Signal Processing                               | FPGA, up to 40-bit Floating-Point                           |
| Audio Processing and OS Location                | Surface                                                     |
| Redundant Processing and Computer               | No                                                          |
| Redundant PSU's                                 | Yes                                                         |
| Maximum Stage Rack Spec                         | Up to 56 In / 56 Out / MADI Split x2 (@ 48kHz)              |
| Maximum Number of Racks                         | 16                                                          |
| Rack Interface                                  | MADI/Optocore (Option)                                      |
| Connector Type for Racks                        | BNC (HMA Optics / ST / Opticon) (Option)                    |
| Rack sharing FOH/MON                            | Gain Tracking                                               |
| Offline Software                                | Yes                                                         |
| Recording                                       | Virtual Soundcheck up to 112 Channels                       |
| Dimensions (mm) and Weight (kg)                 | 1347(w) x 811(d) x 254(h) - 71.3Kgs                         |
| Dimensions (inches) and Weights (lbs)           | 53.03(w) x 31.93(d) x 10(h) - 157lbs                        |

\*\* Full Processing - Includes Delay, DiGiTuBe, HP/LP Filters, 4 or 8 Band EQ, Dynamics 1 and Dynamics 2.

\*\*\* Max Buss Count is Calculated as Aux / Group Buss + Master Buss (LCR or 5.1 depending on Product) + Matrix Buss + 2 Solo Busses (up to 5.1 Depending on Product)

# SD8 Specifications

## General Specifications

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Faders                    | 37 x 100mm Touch-Sensitive, Motorised (25 on SD8-24)                                        |
| Screens                   | 1 x 15" (38cm) LCD High - Resolution Touch Screen                                           |
| Meters                    | 38 x 20-Segment LED Bargraph<br>(26 on SD8-24)                                              |
| Input Channels            | 60 Flexi Channels                                                                           |
| Busses                    | 24 Mono or Stereo Busses<br>+ LR or LCR Master                                              |
| Solo Busses               | 2 Stereo Busses                                                                             |
| Matrix                    | 16 x 12 Matrix<br>(Additional to Busses Above)                                              |
| Control Groups            | 12, Selectable for VCA-style, Moving Fader, Mute Group                                      |
| Graphic EQ                | 24 x 32-band, Gain +/- 12dB                                                                 |
| Internal FX               | 12 Stereo FX Processors                                                                     |
| Local I/O                 | 8 x Mic/Line I/O, 8 x AES/EBU I/O (Mono)                                                    |
| MADI Interface            | 2 Redundant Interfaces,<br>75 Ohm BNC Connectivity                                          |
| Optic Interface           | Optocore<br>(Optional Factory Fit Only)                                                     |
| MIDI Interface            | In / Out / Through                                                                          |
| VGA Port                  | DB-15 Mini-Female<br>(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<br>1/4 Inch Jack                                                |
| SD8 Dimensions            | 1347mm (w) x 811mm (d) x 251.7mm (h)                                                        |
| SD8 Weight                | 65Kg (155Kg with Optional Flightcase)                                                       |
| SD8 Flightcase            | 1517mm (w) x 1133mm (h) x 452mm (d) (Optional)                                              |
| SD8 Power Requirements    | 90-264 VAC, 47-63Hz Auto Sensing. 230VA Typical, 295VA Peak<br>(Meters Full, Faders Moving) |
| SD8-24 Dimensions         | 923.5mm (w) x 811mm (d) x 251.7mm (h)                                                       |
| SD8-24 Weight             | 50Kg<br>(127Kg with Optional Flightcase)                                                    |
| SD8-24 Flightcase         | 1092mm (w) x 1133mm (h) x 452mm (d) (Optional)                                              |
| SD8-24 Power Requirements | 90-264 VAC, 47-63Hz Auto Sensing. 230VA typical, 295VA Peak<br>(Meters Full, Faders Moving) |
| Redundancy                | Internal PSU x 2                                                                            |

## Audio Specification

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| Sample Rate              | 48kHz or 44.1kHz<br>(96kHz with SD Rack)                                                                     |
| Processing Delay         | 2ms Typical @ 48k<br>(60 Stereo Channels, Stage<br>Input Through L-R Buss to<br>Stage Output)<br>1.1ms @ 96k |
| Internal Processing      | Up to 40-bit, Floating Point                                                                                 |
| A>D & D>A                | 24-bit Converter<br>Bit Depth                                                                                |
| Frequency Response       | +/- 0.6dB (20Hz – 20kHz)                                                                                     |
| THD                      | <0.05% @ Unity Gain,<br>10dB Input @ 1kHz                                                                    |
| Channel Separation       | Better Than 90dB<br>(40Hz – 15kHz)                                                                           |
| Residual Output<br>Noise | <90dBu Typical<br>(20Hz - 20kHz)                                                                             |
| Microphone Input         | Better Than -126dB<br>Equivalent Noise                                                                       |
| Maximum Output Level     | +22dBu                                                                                                       |
| Maximum Input Level      | +22dBu                                                                                                       |

## Processing Channel Specification

### Input Channel

|                   |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | User-Defined / Presets                                                                                                                                                                                                                                                                                                                                            |
| Channel Selection | Mono / Stereo / Multi                                                                                                                                                                                                                                                                                                                                             |
| Input Routing     | Main & Alternate Input                                                                                                                                                                                                                                                                                                                                            |
| Analogue Gain     | -20 to +60dB                                                                                                                                                                                                                                                                                                                                                      |
| Phase             | Normal / Reverse                                                                                                                                                                                                                                                                                                                                                  |
| Digital Trim      | -40 to +40dB                                                                                                                                                                                                                                                                                                                                                      |
| Delay             | >1 Sec (Coarse & Fine Control)                                                                                                                                                                                                                                                                                                                                    |
| DiGiTuBe          | Drive 0.01 - 50.0<br>Bias 0 - 6                                                                                                                                                                                                                                                                                                                                   |
| LPF               | 20 – 20kHz, 24dB/Oct                                                                                                                                                                                                                                                                                                                                              |
| HPF               | 20 – 20kHz, 24dB/Oct                                                                                                                                                                                                                                                                                                                                              |
| Insert A          | (Pre EQ/Dyn) On/Off                                                                                                                                                                                                                                                                                                                                               |
| Equalisation      | 4 Band EQ: Parametric or<br>Dynamic (Low/Lowshelf, Lower-<br>Mid/Lowshelf, Upper-Mid/<br>Hi Shelf, Hi/Hisshelf)<br>On/Off<br>Freq; 20 – 20kHz<br>Gain; +/- 18dB<br>Q: 0.1 -20 (Parametric) / 0.10-<br>0.85 (Shelf)<br>Dynamic EQ On/Off<br>Over/Under<br>Band On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1 |



|                          |                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dynamics 1 Compressor    | Single or Multiband (3-Band)<br>On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1<br>Gain; 0 to +40dB with Autogain Option<br>Link; Any Channel/Buss<br>Hi Crossover; 20Hz – 20kHz<br>Lo Crossover; 20Hz – 20kHz<br>Knee : Hard, Med, Soft                                  |
| De-Esser                 | Threshold : 20us – 20ms<br>Release : 1ms – 100ms<br>Ratio : 1:1 – 50:1<br>Ess-Band : Listen On/Off<br>Ess-Band Filter Freq / Width: 20Hz – 20kHz                                                                                                                                                                              |
| Dynamics 2 Gate / Ducker | On/Off<br>Threshold; -60 – 0dB<br>Attack; 50us – 100ms<br>Hold; 2ms – 2s<br>Release; 5ms – 5s<br>Range; 0 - 90dB<br>Key; Any Source<br>Key Listen<br>Freq/Width; 20 – 20kHz                                                                                                                                                   |
| Compressor               | On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1<br>Gain; 0 to +40dB with Autogain Option<br>Link; Any Channel / Buss<br>Hi Crossover; 20Hz – 20kHz<br>Lo Crossover; 20Hz – 20kHz<br>S/C Source : Any Source<br>S/C Listen : On/Off<br>S/C Filter Freq/Width: 20Hz – 20kHz |
| Insert B                 | (Post EQ/Dyn) On/Off                                                                                                                                                                                                                                                                                                          |
| 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<br>Direct: On/Off, Pre-Mute / Pre-Fade / Post-Fade, Level +/- 18dB                                                                                                                                                                                                                               |
| Fader                    | 100mm Motorised Fader ∞ to +10dB                                                                                                                                                                                                                                                                                              |

### Processing Channel Specification

#### Aux / Group / Matrix Output

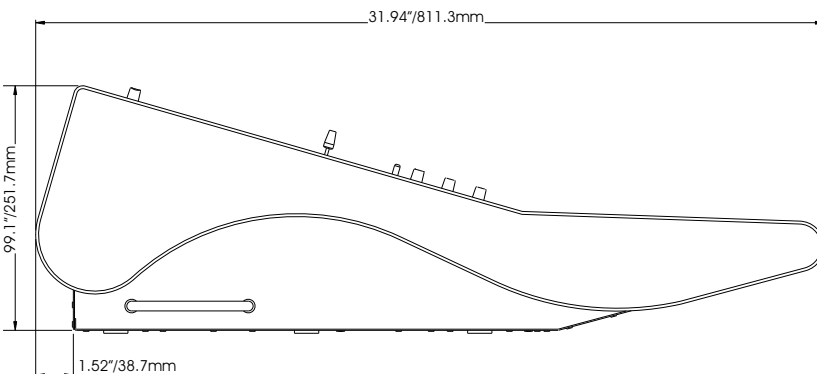
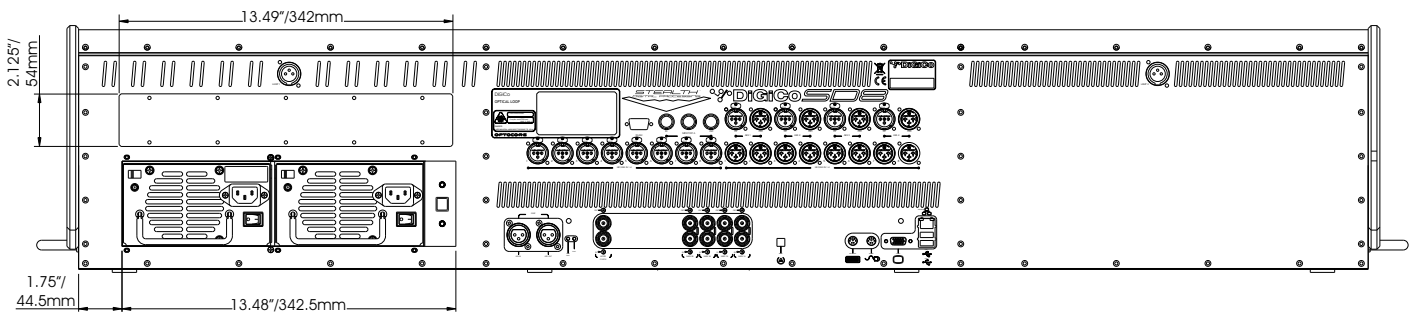
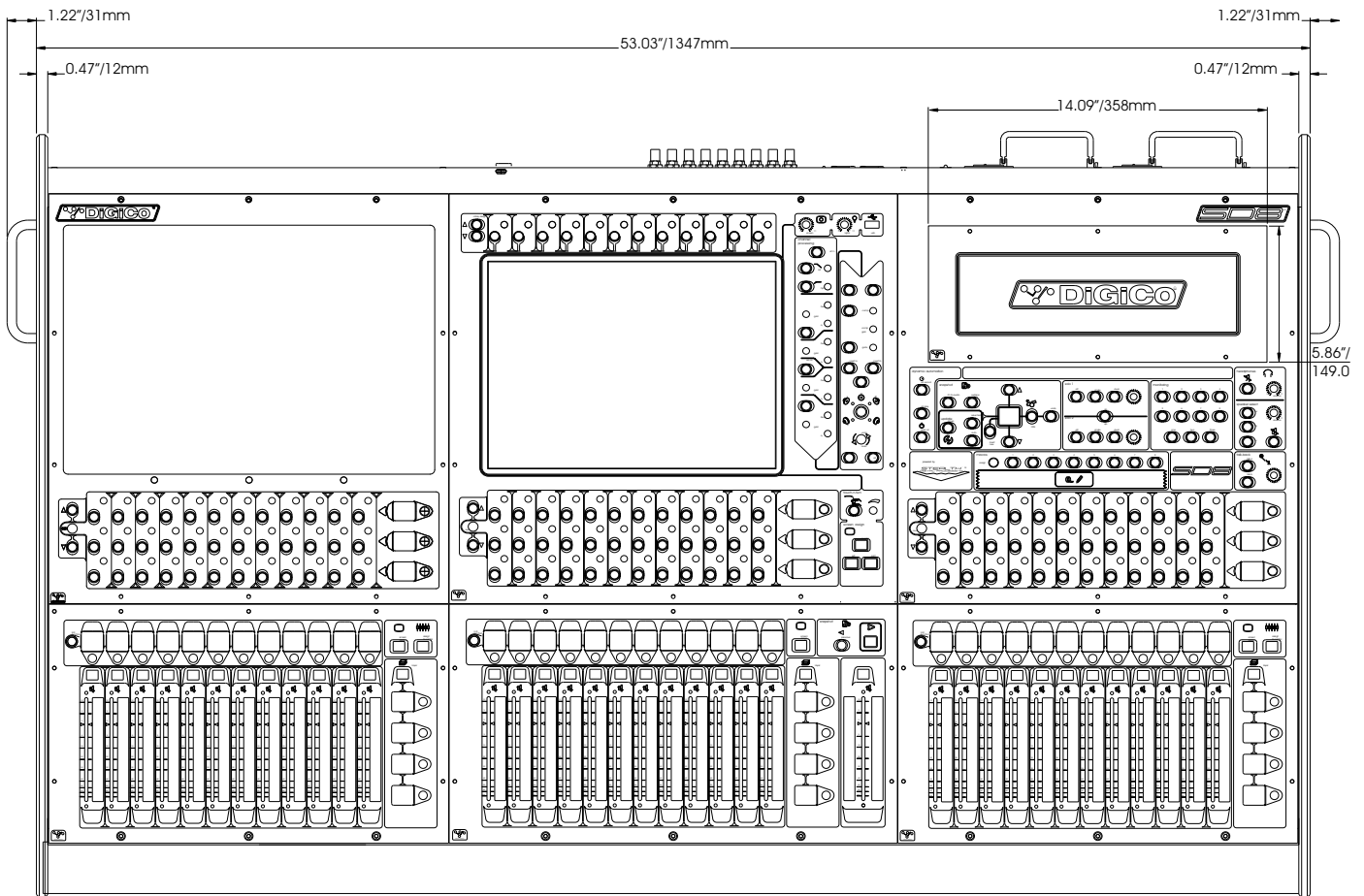
|                          |                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                     | User-Defined / Presets                                                                                                                                                                                                                                                                                                                             |
| Phase                    | Normal / Reverse                                                                                                                                                                                                                                                                                                                                   |
| Digital Trim             | -20 to +60dB                                                                                                                                                                                                                                                                                                                                       |
| Delay                    | >1 Sec (Coarse & Fine control)                                                                                                                                                                                                                                                                                                                     |
| DiGiTuBe                 | Drive 0.01 - 50.0<br>Bias 0 - 6                                                                                                                                                                                                                                                                                                                    |
| LPF                      | 20 – 20kHz, 24dB / Oct                                                                                                                                                                                                                                                                                                                             |
| HPF                      | 20 – 20kHz, 24dB / Oct                                                                                                                                                                                                                                                                                                                             |
| Insert A                 | (Pre EQ/Dyn) On/Off                                                                                                                                                                                                                                                                                                                                |
| Equalisation             | 4 Band EQ: Parametric or Dynamic (Low/Lowshelf, Lower-Mid/Lowshelf, Upper-Mid/Hi Shelf, Hi/Hisshelf)<br>On/Off<br>Freq; 20 – 20kHz<br>Gain; +/- 18dB<br>Q: 0.1 -20 (Parametric) / 0.10-0.85 (Shelf)<br>Dynamic EQ On/Off<br>Over/Under<br>Band On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1 |
| Dynamics 1 Compressor    | Single or Multiband (3-band)<br>On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1<br>Gain; 0 to +40dB with Autogain Option<br>Link; Any Channel / Buss<br>Hi Crossover; 20Hz – 20kHz<br>Lo Crossover; 20Hz – 20kHz<br>Knee : Hard, Med, Soft                                                     |
| De-Esser                 | Threshold: 20us – 20ms<br>Release: 1ms – 100ms<br>Ratio: 1:1 – 50:1<br>Ess-Band: Listen On/Off<br>Ess-Band Filter Freq/Width: 20Hz – 20kHz                                                                                                                                                                                                         |
| Dynamics 2 Gate / Ducker | On/Off<br>Threshold; -60 – 0dB<br>Attack; 50us – 100ms<br>Hold; 2ms – 2s<br>Release; 5ms – 5s<br>Range; 0 - 90dB<br>Key; Any Source<br>Key Listen<br>Freq/Width; 20 – 20kHz                                                                                                                                                                        |

|                |                                                                                                                                                                                                                                                                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compressor     | On/Off<br>Threshold; -60 – 0dB<br>Attack; 500us – 100ms<br>Release; 10ms – 10s<br>Ratio; 1:1 – 50:1<br>Gain; 0 to +40dB with Autogain Option<br>Link; Any Channel/Buss<br>Hi Crossover; 20Hz – 20kHz<br>Lo Crossover; 20Hz – 20kHz<br>S/C Source : Any source<br>S/C Listen : On/Off<br>S/C Filter Freq/Width: 20Hz – 20kHz |
| Insert B       | (Post EQ/Dyn) On/Off                                                                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                                            |



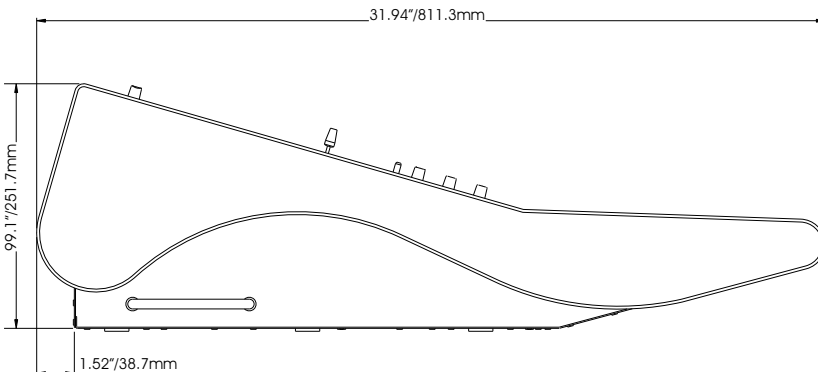
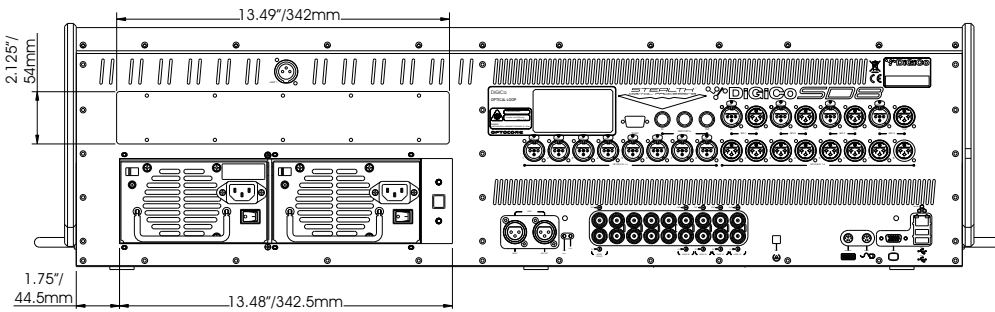
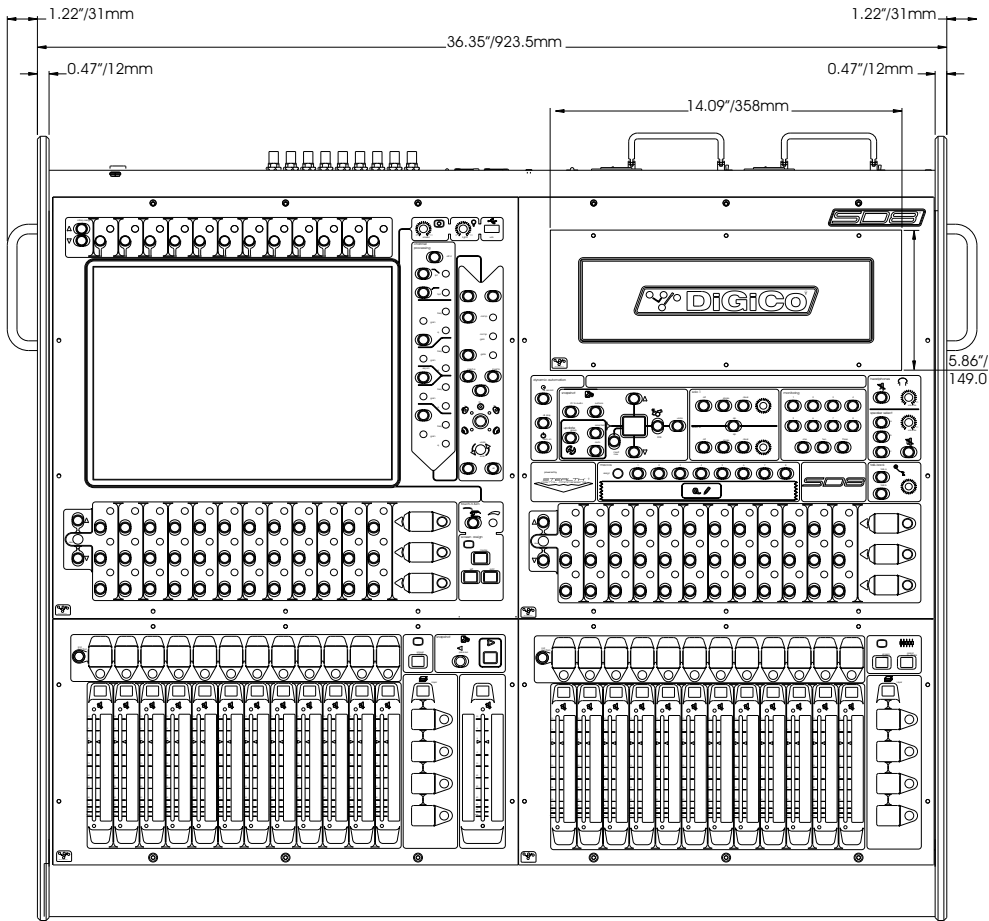
# DiGiCo SD8

## Technical Specifications



### DiGiCo SD8 Notes

- |                                             |                |
|---------------------------------------------|----------------|
| 1. SD8 WEIGHT                               | 65Kg/143.3lb   |
| 2. SINGLE PSU                               | 1.6Kg/3.52lb   |
| 3. PSU CHASSIS COMPLETE WITH 2 PSUs         | 6Kg/13.22lb    |
| 4. RACK WEIGHT<br>(CONFIGURATION DEPENDANT) | 25Kg/55.11lb   |
| 5. FLIGHT CASE                              | 90Kg/198.42lb  |
| 6. FLIGHT CASE (PACKED)                     | 155Kg/341.72lb |

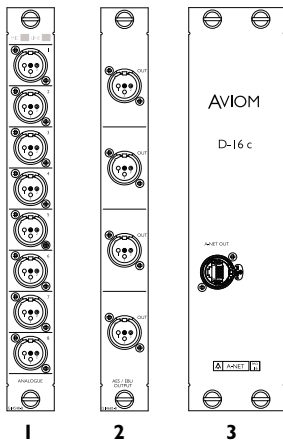
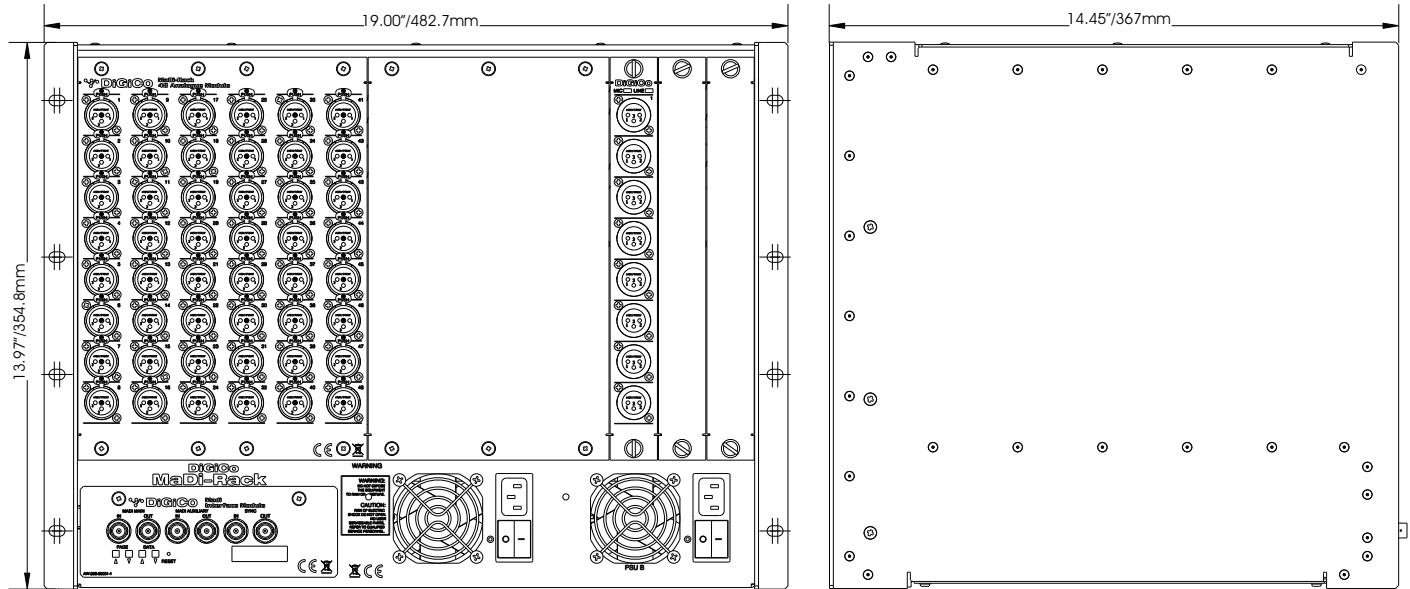


**DiGiCo SD8-24 Notes**

- 1. SD8-24 WEIGHT 50Kg/111.23lb
- 2. SINGLE PSU 1.6Kg/3.52lb
- 3. PSU CHASSIS COMPLETE WITH 2 PSUs 6Kg/13.22lb
- 4. RACK WEIGHT 25Kg/55.11lb
- (CONFIGURATION DEPENDANT)
- 5. FLIGHT CASE 77Kg/169.76lb
- 6. FLIGHT CASE (PACKED) 127Kg/279.99lb

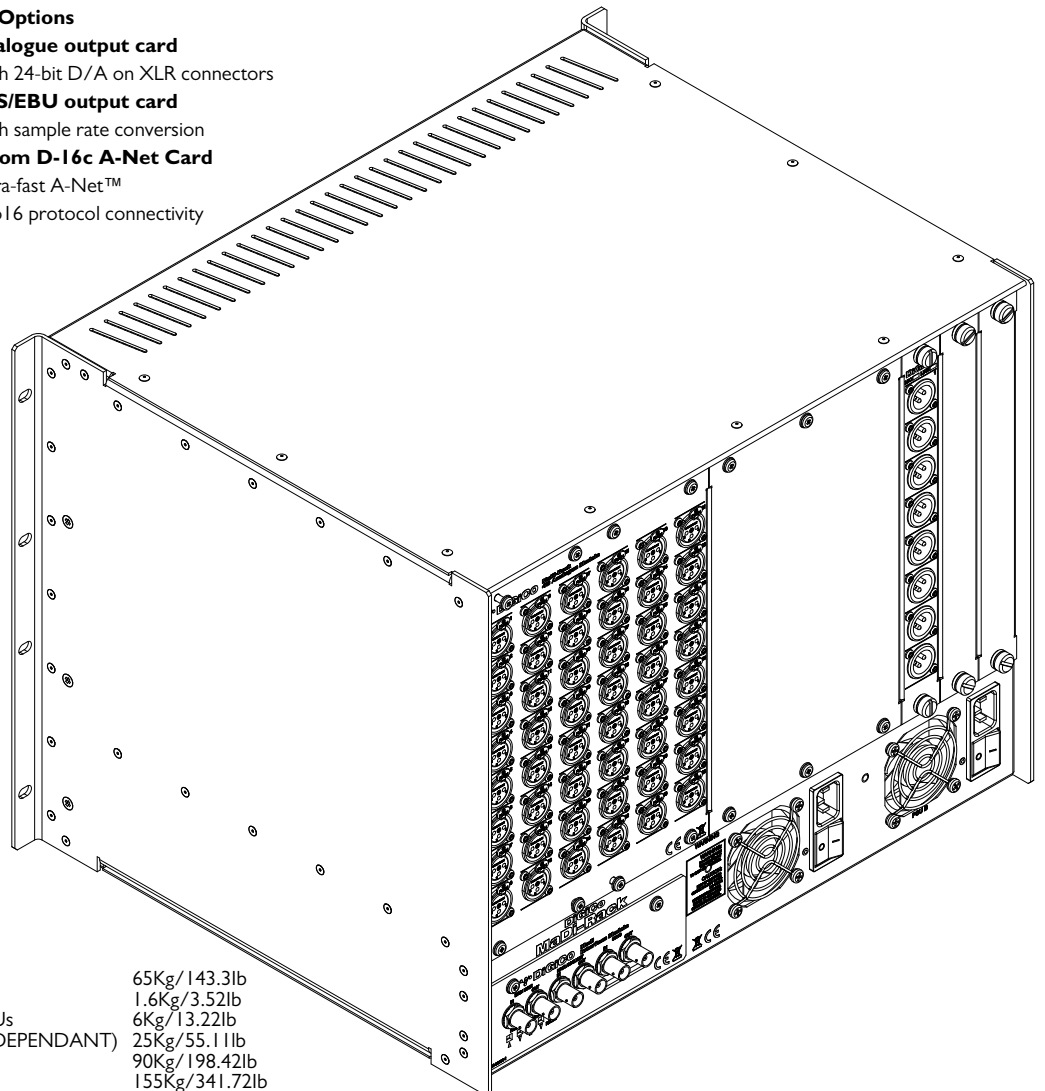
# DiGiCo SD8

## Options



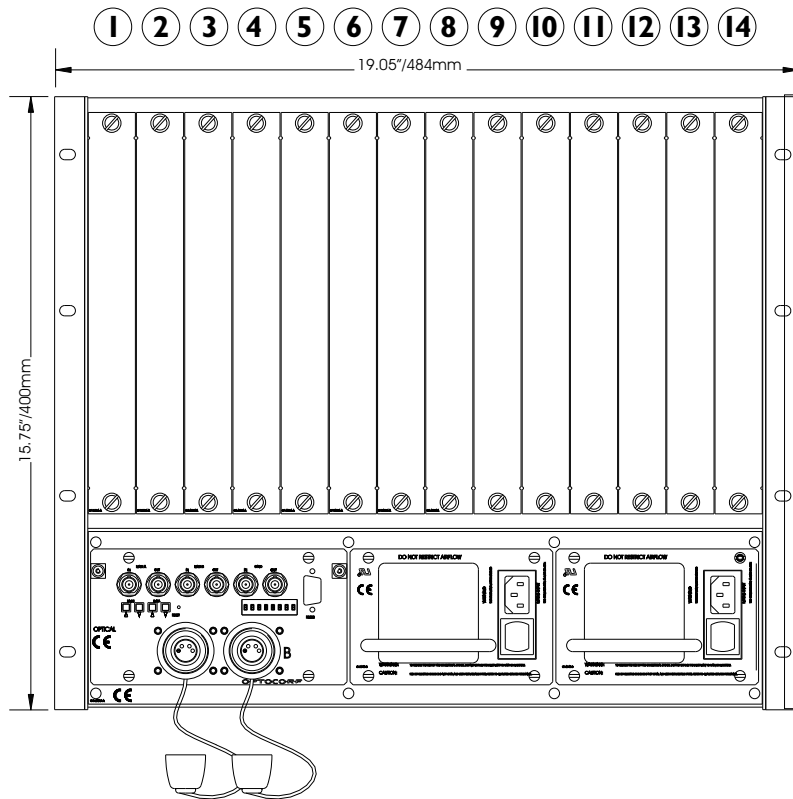
### Card Options

- 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 I 6 protocol connectivity



### DiGiCo SD8 Notes

- |                                          |                |
|------------------------------------------|----------------|
| 1. SD8 WEIGHT                            | 65Kg/143.31b   |
| 2. SINGLE PSU                            | 1.6Kg/3.521b   |
| 3. PSU CHASSIS COMPLETE WITH 2 PSUs      | 6Kg/13.221b    |
| 4. RACK WEIGHT (CONFIGURATION DEPENDANT) | 25Kg/55.111b   |
| 5. FLIGHT CASE                           | 90Kg/198.421b  |
| 6. FLIGHT CASE (PACKED)                  | 155Kg/341.721b |

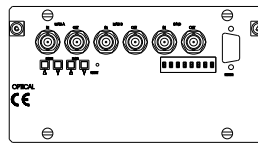
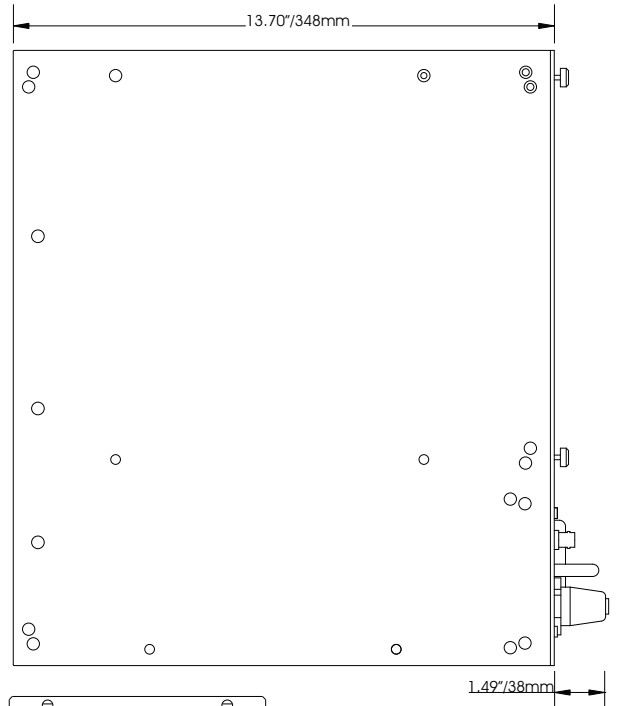
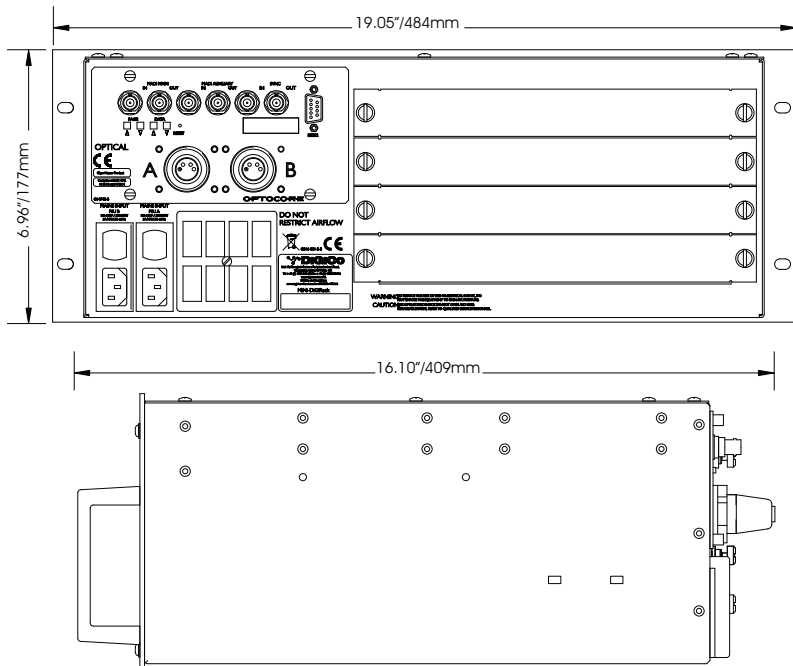


**DiGiRACK**

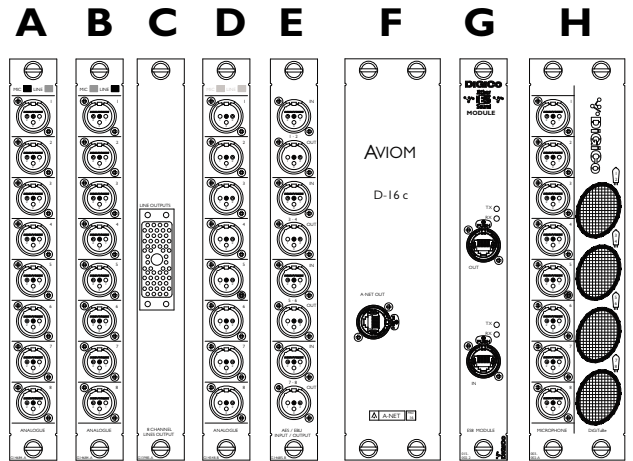
9U 19" Rack Mount Weight (Unpacked) 36kg/80lb Weight (Packed) 56kg/124lb  
Optional Configurations (1-7 Inputs 8-14 Outputs)

**Mini DiGiRACK**

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



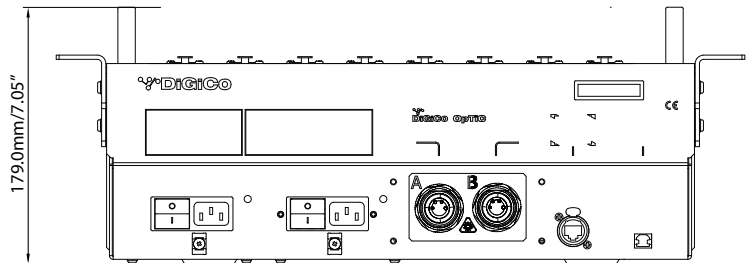
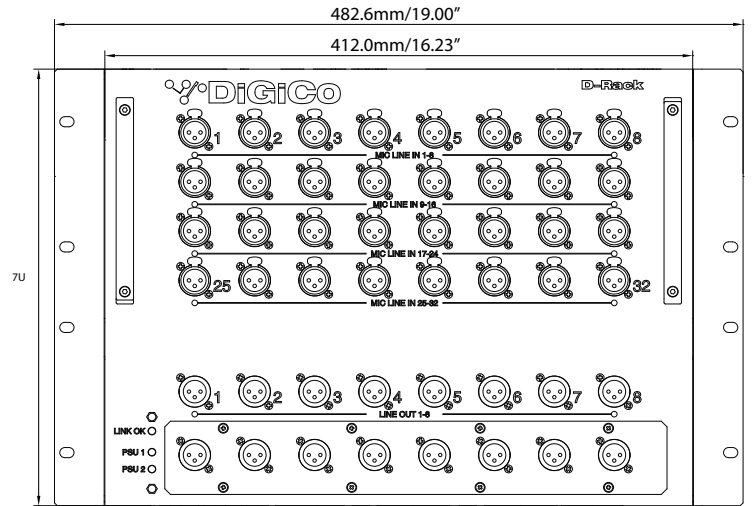
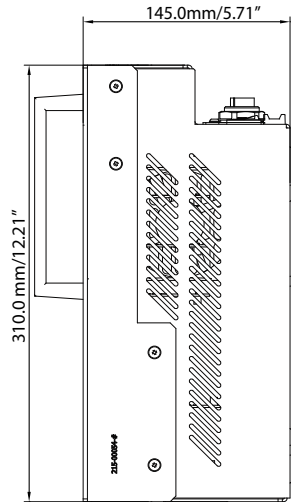
**MADI Only MADI pod**



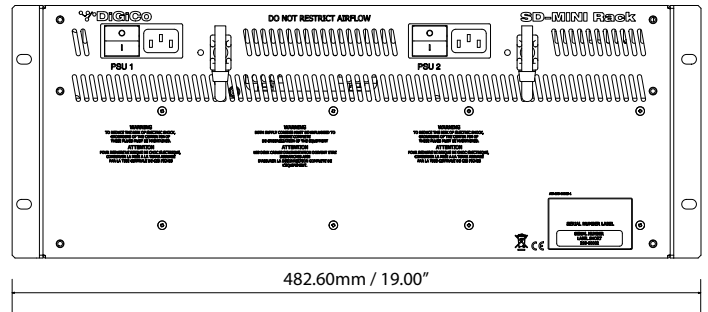
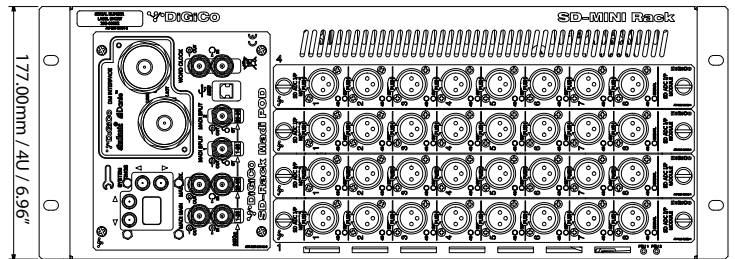
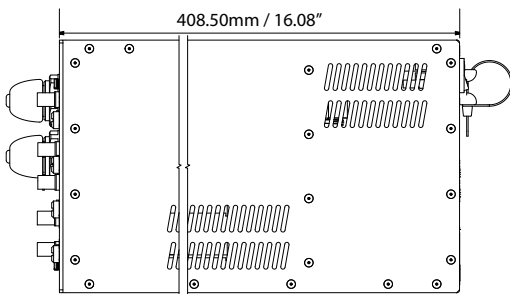
**Card Options (DiGiRack and MiniRack)**

- 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. Analog input card**  
EDAC connector with 24-bit A/D, mic & line inputs
- D. Analog 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

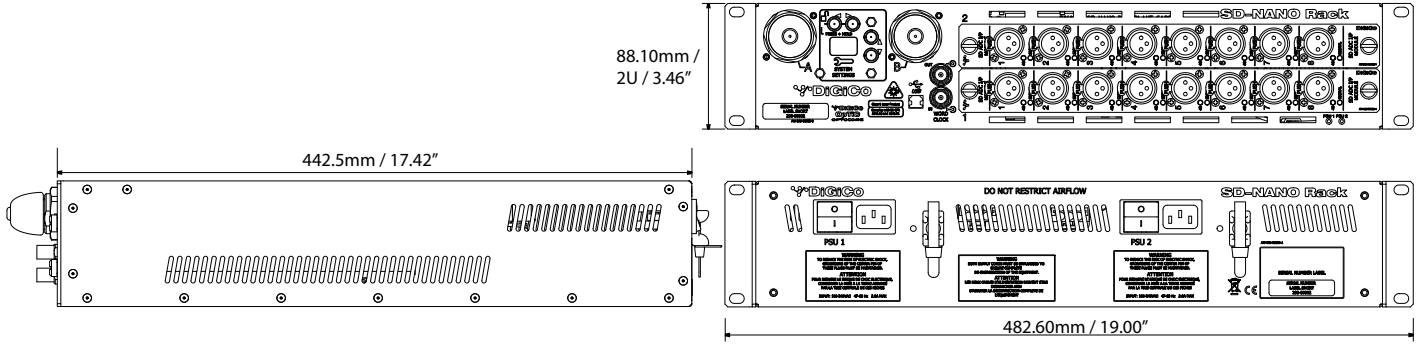
# D-Rack Line Drawings



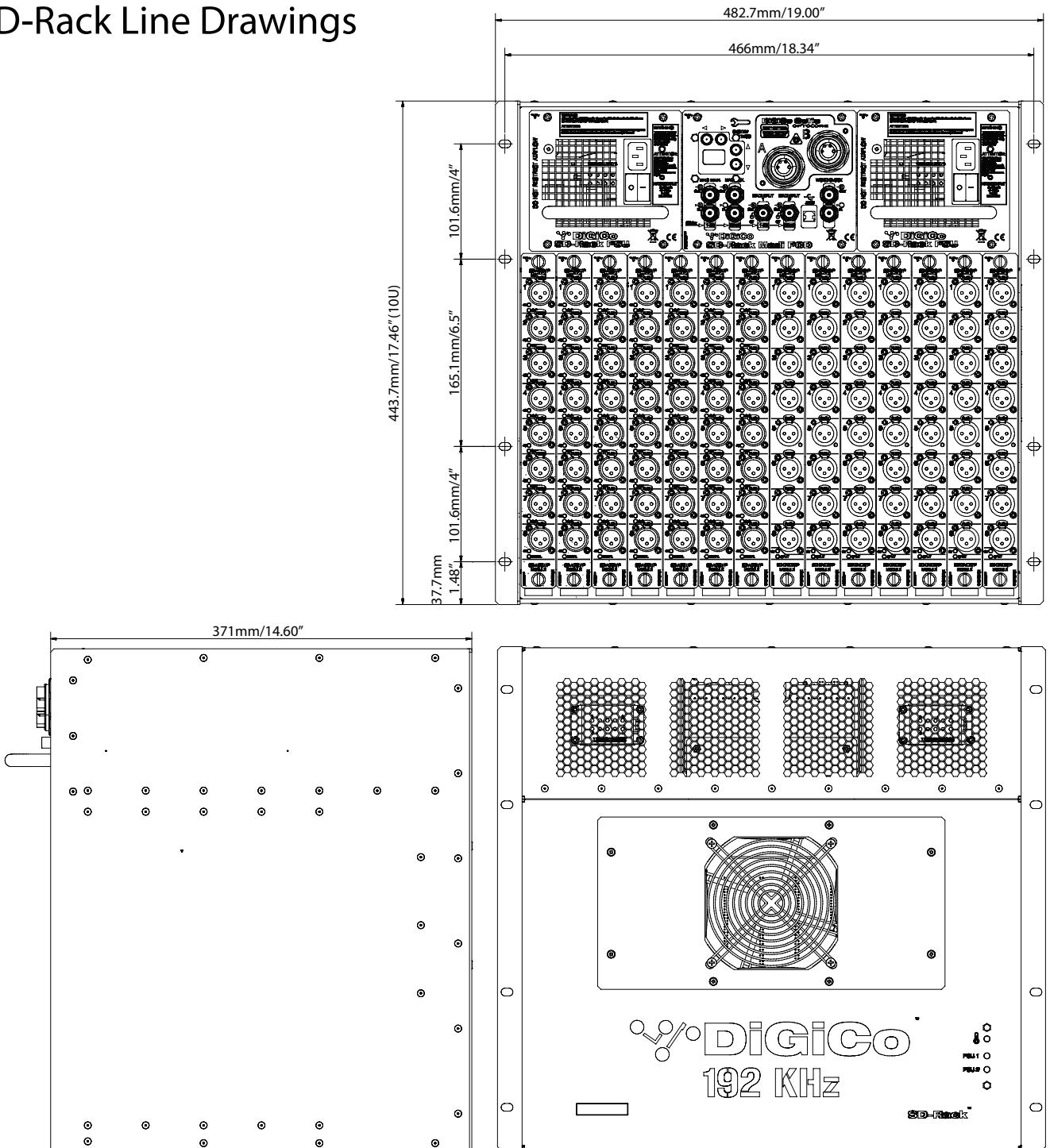
# SD-MINI Rack Line Drawings



# SD-NANO Rack Line Drawings



# SD-Rack Line Drawings

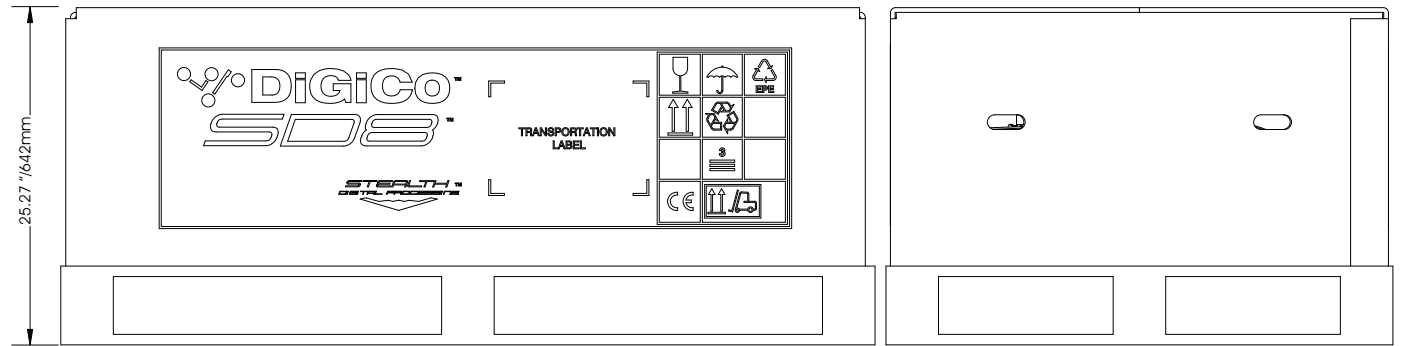


# DiGiCO SD8

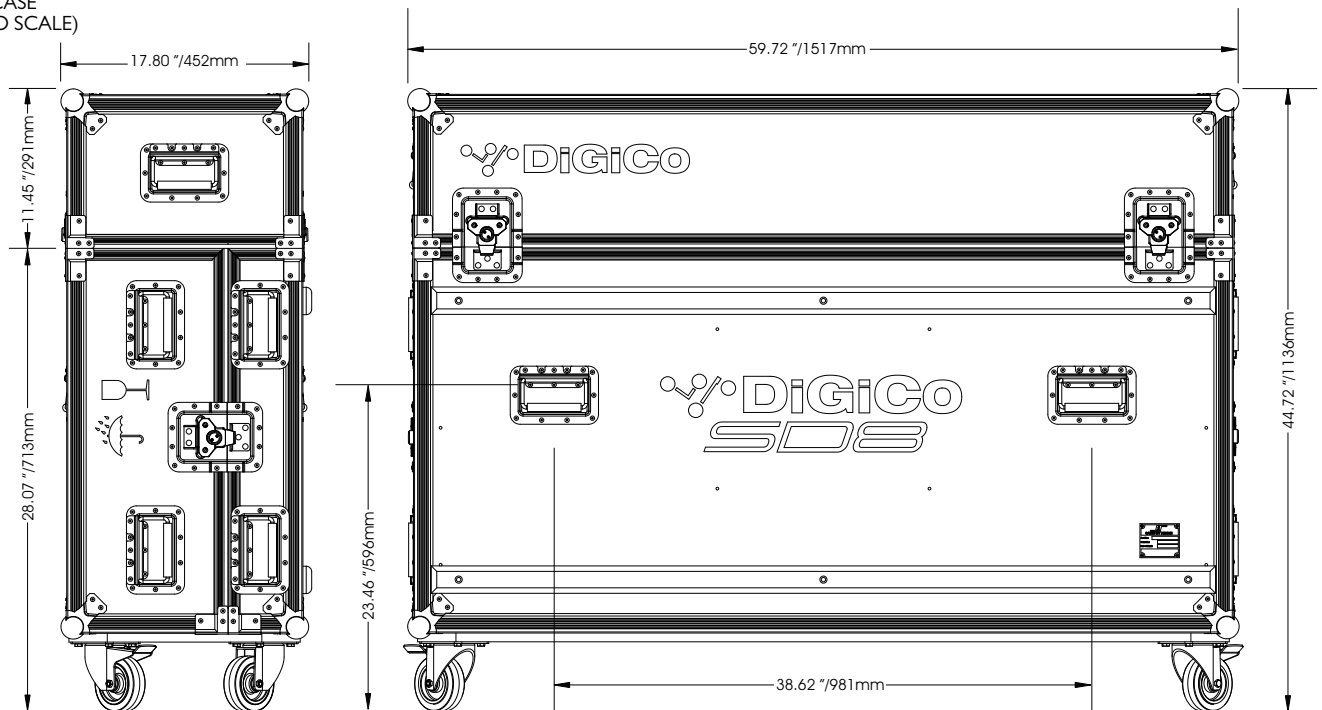
## Options



CARTON  
(NOT TO SCALE)  
THE TOTAL PACKAGING WEIGHT FOR THE SD8 CONSOLE IS 43.0KG / 94.8LB



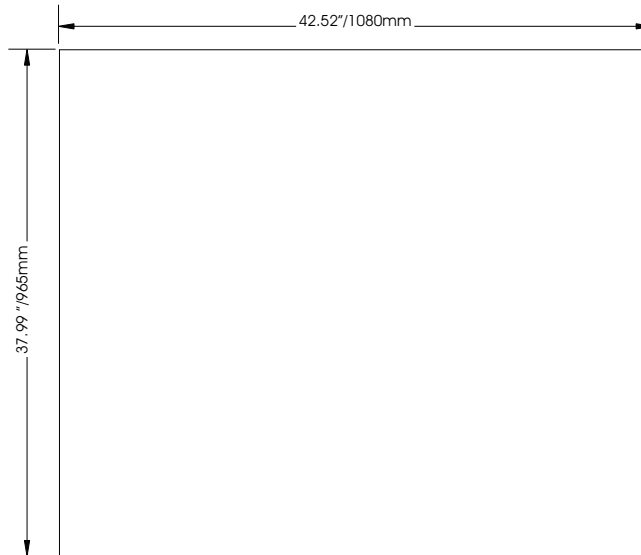
FLIGHTCASE  
(NOT TO SCALE)



# DiGiCo

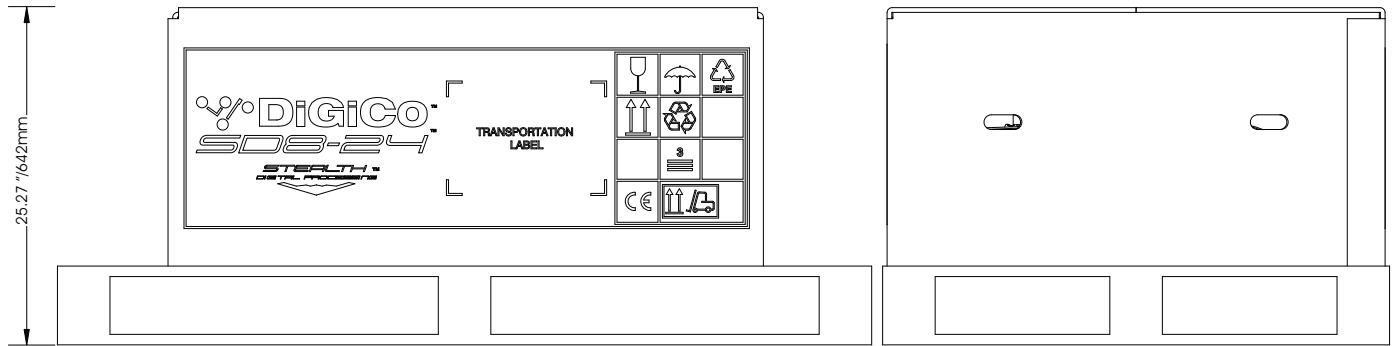
## SD8-24

### Options

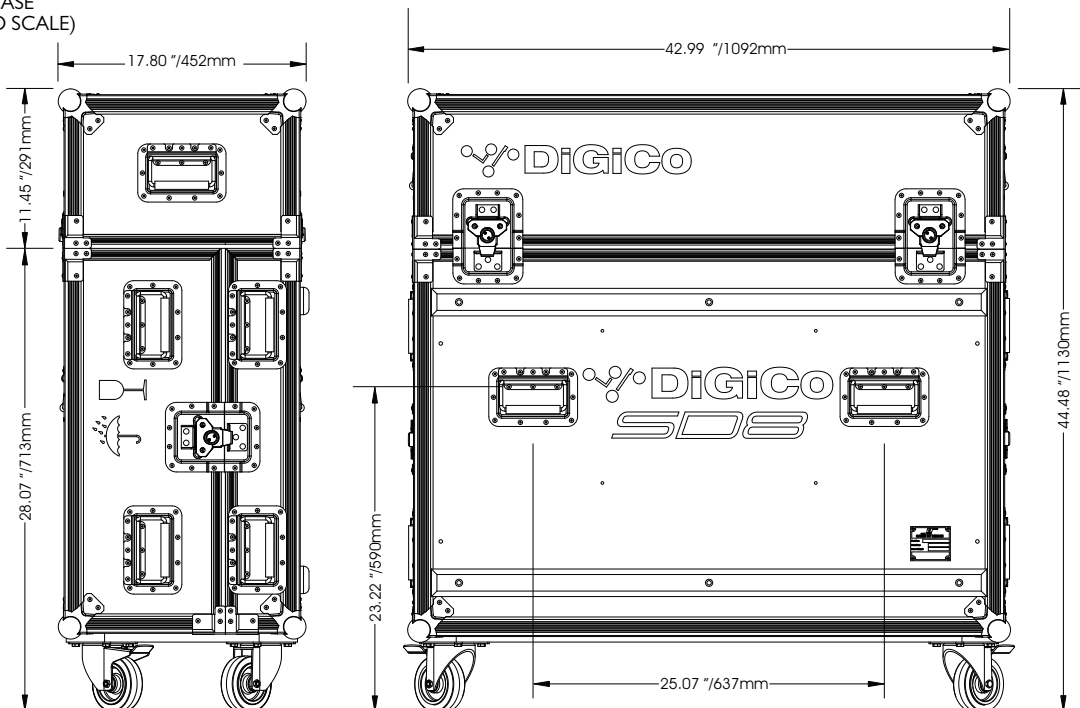


CARTON  
(NOT TO SCALE)

THE TOTAL PACKAGING WEIGHT FOR THE SD8-24 CONSOLE IS 33KG / 72.8LB



FLIGHTCASE  
(NOT TO SCALE)



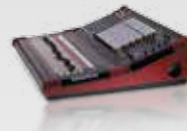


# Product Comparison



|                                                    | SD7/SD7B/SD7T                                                  | SD5                                                         |
|----------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|
| Max no of Input Processing Channels                | 253                                                            | 124                                                         |
| Maximum Buss Count                                 | 160***                                                         | 87***                                                       |
| Max aux / sub-group busses                         | 128 (full processing**) (inc 2x solo buss)                     | 56 (full processing**)                                      |
| Matrix (in addition to aux / sub - group)          | 32 x 32 (full processing**)                                    | 24 x 24 (full processing**)                                 |
| Solo busses                                        | 2                                                              | 2                                                           |
| Max no. of inputs - Non optic consoles             | N/A                                                            | N/A                                                         |
| Max no. of inputs - 1 console on single optic loop | 696                                                            | 632                                                         |
| Max no. inputs - 2 consoles on single optic loop   | 752                                                            | 688                                                         |
| Local I/O spec                                     | 12x mic/line, 12x line outputs, 12x AES/EBU I/O (mono streams) | 8x mic/line, 8x line outputs, 8x AES/EBU I/O (mono streams) |
| Max no. of outputs                                 | 696                                                            | 632                                                         |
| Max no. of faders                                  | 52 (plus 48 if used with 2 x EX007)                            | 37                                                          |
| Screen                                             | 3 x 15" touch                                                  | 3 x 15" touch                                               |
| Ext. overview screen                               | Yes                                                            | Yes                                                         |
| I/O expandability                                  | Yes                                                            | Yes                                                         |
| Insert points / channel                            | 2                                                              | 2                                                           |
| On Board FX                                        | 48                                                             | 24                                                          |
| Graphic Eqs (32-Band)                              | 32                                                             | 32                                                          |
| Dynamic EQ                                         | 256                                                            | 24                                                          |
| Bus 8-band Parametric EQ                           | Yes                                                            | Yes                                                         |
| Multiband Compression                              | 256                                                            | 24                                                          |
| DiGiTubes                                          | 256                                                            | 24                                                          |
| Multi-channels                                     | Yes                                                            | Yes                                                         |
| VCA - style control groups                         | 36                                                             | 24                                                          |
| Set Spill                                          | Yes                                                            | Yes                                                         |
| Mute Groups (part of control groups)               | 36                                                             | 24                                                          |
| Reorder Busses                                     | Yes                                                            | Yes                                                         |
| Multi-operator                                     | Yes                                                            | Yes                                                         |
| Surround                                           | Yes                                                            | Yes                                                         |
| MADI connectivity                                  | 4x Redundant ports                                             | 3x Redundant ports                                          |
| Optics                                             | Yes (including dual loop)                                      | Yes                                                         |
| Snapshot Offline                                   | Yes                                                            | Yes                                                         |
| Snapshot Auto-Update                               | Yes                                                            | Yes                                                         |
| Sampling rates                                     | 48 / 96 / 192 kHz                                              | 48 / 96 / 192 kHz                                           |
| Signal processing                                  | FPGA, up to 40-bit floating-point                              | FPGA, up to 40-bit floating-point                           |
| Audio processing and OS location                   | Surface                                                        | Surface                                                     |
| Redundant Processing and Computer                  | Standard                                                       | Yes (Dual Surface)                                          |
| Redundant PSU's                                    | Yes                                                            | Yes                                                         |
| Stage Rack spec                                    | Up to 56 in / 56 out / MADI split x2 (@ 48kHz)                 | Up to 56 in / 56 out / MADI split x2 (@ 48kHz)              |
| Max no of Racks                                    | 18. On 2 loops = 32                                            | 17                                                          |
| Rack Interface                                     | MADI / Optocore                                                | MADI / Optocore                                             |
| Connector type for racks                           | BNC / HMA optics / ST / Opticalcon                             | BNC / HMA optics / ST / Opticalcon                          |
| Rack sharing FOH/MON                               | Gain Tracking                                                  | Gain Tracking                                               |
| Offline Software                                   | Yes                                                            | Yes                                                         |
| Recording                                          | Virtual Soundcheck up to 224 channels                          | Virtual Soundcheck up to 168 channels                       |
| Dimensions (mm) and Weight (kg)                    | 1496(w) x 875(d) x 503(h) - 107Kgs                             | 1465(w) x 850(d) x 753(h) - 116Kgs                          |
| Dimensions (inches) and Weights (lbs)              | 58.9(w) x 34.45(d) x 19.8(h) 236lbs                            | 57.68(w) x 33.46(d) x 29.65(h) - 256lbs                     |





| SD10/SD10B/SD10T                                                | SD8                                                             | SD9/SD9B/SD9T                                                                                                        | SD11/SD11i/SD11B                                                                      |
|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 96 channels, 12 Flexi*                                          | 60 Flexi*                                                       | 48 Flexi*                                                                                                            | 32 Flexi*                                                                             |
| 71/77***                                                        | 67***                                                           | 47/53***                                                                                                             | 39/45***                                                                              |
| 48 (full processing**)                                          | 24 Flexi* (full processing**)                                   | 16 Flexi* (full processing**)<br>1x Surround + 16 Flexi* or<br>2x Surround + 13 Flexi* or<br>3x Surround + 10 Flexi* | 12 Flexi* (full processing**)<br>1x Surround + 12 Flexi* or<br>2x Surround + 9 Flexi* |
| 16 x 16 (full processing**)                                     | 16 x 12 (full processing**)                                     | 12 x 8 (full processing**)                                                                                           | 8 x 8 (full processing**)                                                             |
| 2                                                               | 2                                                               | 2                                                                                                                    | 2                                                                                     |
| 128                                                             | 128                                                             | 180                                                                                                                  | 130                                                                                   |
| 576                                                             | 576                                                             | 628                                                                                                                  | 578                                                                                   |
| 632                                                             | 632                                                             | 684                                                                                                                  | 634                                                                                   |
| 8x mic/line, 8x line outputs, 8x AES/<br>EBU I/O (mono streams) | 8x mic/line, 8x line outputs, 8x AES/<br>EBU I/O (mono streams) | 8x mic/line, 8x line outputs, 4x AES/<br>EBU I/O (mono streams)                                                      | 16x mic/line inputs, 8x line outputs,<br>2x AES/EBU I/O (mono streams)                |
| 576                                                             | 576                                                             | 180 (Non Optics)                                                                                                     | 122 (Non Optics)                                                                      |
| 37                                                              | 37                                                              | 24                                                                                                                   | 12                                                                                    |
| 1x 15" touch                                                    | 1 x 15" touch                                                   | 1x 15" touch                                                                                                         | 1x 15" touch                                                                          |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| 2                                                               | 2                                                               | 1                                                                                                                    | 1                                                                                     |
| 16                                                              | 12                                                              | 8                                                                                                                    | 6                                                                                     |
| 24                                                              | 24                                                              | 16                                                                                                                   | 12                                                                                    |
| 16                                                              | 10                                                              | 8                                                                                                                    | 6                                                                                     |
| Yes                                                             | No (4 band only)                                                | No (4 band only)                                                                                                     | No (4 band only)                                                                      |
| 16                                                              | 10                                                              | 8                                                                                                                    | 6                                                                                     |
| 16                                                              | 10                                                              | 8                                                                                                                    | 6                                                                                     |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| 24                                                              | 12                                                              | 8/12                                                                                                                 | 8                                                                                     |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| 24                                                              | 12                                                              | 8/12                                                                                                                 | 8                                                                                     |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| By remote only                                                  | By remote only                                                  | By remote only                                                                                                       | By remote only                                                                        |
| No/Yes                                                          | No                                                              | No/Yes                                                                                                               | No/Yes                                                                                |
| 2x Redundant ports                                              | 2x Redundant ports                                              | 1x Port                                                                                                              | 1x Port                                                                               |
| Yes                                                             | Yes                                                             | Yes, with new factory order                                                                                          | Yes, with new factory order                                                           |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| Yes                                                             | Yes                                                             | No                                                                                                                   | No                                                                                    |
| 48 / 96 kHz                                                     | 48 / 96 kHz                                                     | 48 / 96 kHz                                                                                                          | 48 / 96 kHz                                                                           |
| FPGA, up to 40-bit floating-point                               | FPGA, up to 40-bit floating-point                               | FPGA, up to 40-bit floating-point                                                                                    | FPGA, up to 40-bit floating-point                                                     |
| Surface                                                         | Surface                                                         | Surface                                                                                                              | Surface                                                                               |
| Yes (Dual Surface)                                              | Yes (Dual Surface)                                              | Yes (Dual Surface)                                                                                                   | Yes (Dual Surface)                                                                    |
| Yes                                                             | Yes                                                             | Yes - Option                                                                                                         | Yes - by remote PSU option only                                                       |
| Up to 56 in / 56 out / MADI split x2<br>(@ 48kHz)               | Up to 56 in / 56 out / MADI split x2<br>(@ 48kHz)               | D-Rack (32 - 16)<br>SD-Rack (56-56)                                                                                  | D-Rack (32 - 16)<br>SD-Rack (56-56)                                                   |
| 16                                                              | 16                                                              | 17                                                                                                                   | 16                                                                                    |
| MADI / Optocore (option)                                        | MADI / Optocore (option)                                        | MADI / RJ45 CAT 5E / Optocore (option)                                                                               | MADI / RJ45 CAT 5E / Optocore (option)                                                |
| BNC / HMA optics / ST / Opticalcon<br>(option)                  | BNC / HMA optics / ST / Opticalcon<br>(option)                  | BNC / CAT 5E / HMA optics / ST /<br>Opticalcon (option)                                                              | BNC / CAT 5E / HMA optics / ST /<br>Opticalcon (option)                               |
| Gain Tracking                                                   | Gain Tracking                                                   | Gain Tracking                                                                                                        | Gain Tracking                                                                         |
| Yes                                                             | Yes                                                             | Yes                                                                                                                  | Yes                                                                                   |
| Virtual Soundcheck up to 108<br>channels                        | Virtual Soundcheck up to 112<br>channels                        | Virtual Soundcheck up to 56<br>channels                                                                              | Virtual Soundcheck up to 56<br>channels                                               |
| 1398/*982(w) x 818(d) x 285(h) -<br>60/*45Kgs                   | 1347/*923.5(w) x 811(d) x 254(h) -<br>71.3/*50Kgs               | 878(w) x 785(d) x 262(h) - 36Kgs                                                                                     | 483(w) x 577(d) x 232(h) - 24Kgs                                                      |
| 55.04/*38.66(w) x 32.2(d) x 11.22(h) -<br>132/*99.2lbs          | 53.03/*36.35(w) x 31.93(d) x 10(h) -<br>157/*111.23lbs          | 34.57(w) x 30.90(d) x 10.31(h) - 80lbs                                                                               | 19.02(w) x 22.72(d) x 9.13(h) - 53lbs                                                 |

\* Smaller frame size weights and dimensions

\* Flexi - Configurable Mono or Stereo without the loss of any resources

\*\* Full Processing - Includes Delay, DiGiTuBe, HP/LP Filters, 4 or 8 Band EQ, Dynamics 1 and Dynamics 2.

\*\*\* Max Buss Count is calculated as Aux / Group Buss + Master Buss (LCR or 5.1 depending on product) + Matrix Buss + 2 Solo Busses (up to 5.1 depending on product)



## Company Profile

The Ultimate in Digital Consoles



**Concert Sound**  
*(U2 360° Tour)*

When the professional audio world first set eyes on the DiGiCo D5 Live there was a collective sharp intake of breath. Here was the digital mixing console that gave you the best of analogue working practices and audio finesse with all the versatility and feature richness that the digital environment could offer.

A decade on, the SD Series is the new standard setter and its fast, engineer friendly user interface has yet to be beaten. And to many engineers it continues to offer the optimum sonic combination of analogue smoothness and digital clarity.

But expectations continue to rise. In a world as competitive for engineers as it is for console owners, you want the best tools you can lay your hands on. You also want a console as well



**Permanent Install**  
*Wolftrap Arts Centre*

thought out for every major application as it is designed for the art and science of sound engineering.

Above all, you want to do more. That's why we've added yet more depth and versatility to the SD Series, in which the DiGiCo SD7 is complemented by the new SD5, powerful SD Ten, compact SD8, the ultra compact SD9 and rackmount SD11.

What Makes the SD Series different from the D Series and other digital consoles?

The SD Series gives you more. More power, more flexibility and more creativity, wrapped in frames which are more serviceable, more compact and more user-friendly than ever.



**Houses of Worship**  
*Gateway Church Southlake Texas*

Selected features include:  
**All audio processing on one chip Stealth Digital Processing™**  
From input to output all the audio processing on an SD Series console is carried out on one chip using Super FPGA technology with floating-point processing, resulting in enhanced clarity, unique sound characteristics and a smaller console footprint.

**The Power of Waves** The SD Series is the world's first range of digital mixers to offer the power of Waves SoundGrid® as a fully integrated option, complementing the array of built-in Stealth digital effects.

**Slicker Interface** With 15inch touch screen LCD TFT technology and user defined RGB back lit LCD scribble strips delivering uninterrupted user feedback.



**Musical Theatre**  
*Mother Courage*

**Advanced Software UI**  
Building on the fine qualities of over 20 years of digital development, our engineers have delivered a user experience that's even faster, easier and more productive than ever.

After the briefest introduction it's clear that the DiGiCo range was designed for audio engineers by audio engineers.



Designed and manufactured in the UK.



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