



DiGiCo

SD 11



Raising Expectations





SD11

SD11i

SD11 – raising expectations

The SD11 is a compact 19 inch rackmount or table top mixer. By simply removing the end cheeks and armrest, 19" rack fixings are revealed, making this a low cost, yet powerful solution, to incorporate into almost any mixing environment.

The SD11 comes at an astoundingly low price point yet, by employing the power of DiGiCo's Stealth Digital Processing™ and the flexibility of a true FPGA-based digital audio console, it maintains the very highest audio quality and best facilities.

The release of a set of software/firmware upgrades now means that this versatile solution is available in three configurations: SD11, SD11i and SD11B.

The expanded SD11i has more Flexi-channels, more Dynamic EQ, for FX processing and the addition of DiGiTuBes and Multichannel inputs (previously only

available on the SD7); whilst the top of the range SD11B's application specific extension makes it ideal for the broadcast market and also includes the SD11i software.

Both the SD11 and SD11i have the ability to be upgraded at any time.

DiGiCo D-Rack

32 Mic in 8 Analogue Out, showing optional

- 8 AES Mono Stream Outputs
- 8 Analogue Outputs
- Aviom card
- 19" Rack Ears

Optional D-Rack

32 Mic in 8 Analogue Out



19" Rack Ears (Optional)

8 Analogue Outputs (Optional)

8 AES Mono Stream (Optional)

Aviom D-16C (Optional)



Feature	SD11	SD11i	SD11B
Input Channels	32 (inc 8 Flexi)	32 Flexi	32 Flexi
Busses / Aux / Group	12 Flexi Configurable + LR or LCR Master	12 Flexi Configurable + LR or LCR Master	12 Flexi Configurable + LR or LCR or LCRS or 5.1 Master
Solo Busses	2	2	2
Matrix	8x8	8x8	8x8
Master	LR/LCR	LR/LCR	LR/LCR/LCRS/5.1
Dynamic EQ	4	6	6
Multiband Comp	4	6	6
DiGiTuBes	0	6	6
FX	4 Stereo	6 Stereo	6 Stereo
GEQ	12 x 31 Band	12 x 31 Band	12 x 31 Band
CG	8	8	8
Multi Inputs	Yes	Yes	Yes
Set Spill	Yes	Yes	Yes
Macros	8	8	8
Insert Points	1 (Switchable pre or post channel processing)	1 (Switchable pre or post channel processing)	1 (Switchable pre or post channel processing)
Faders	12	12	12
MADI	1 x BNC	1 x BNC	1 x BNC
DiGiCo CAT5E Audio	1	1	1
PSU	1	1	1

Stealth Digital Processing™ Audio Engine

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



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

The SD11 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.

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 12 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 a huge, high resolution interactive touch screen that makes the SD11 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 SD11s' 32 Flexi Channels. Thanks to the combined power of the SD11 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 SD11 provides as standard a 8 x 8 output matrix – its 8 busses being additional to the console's 12 flexi, solo and master/LCR busses.

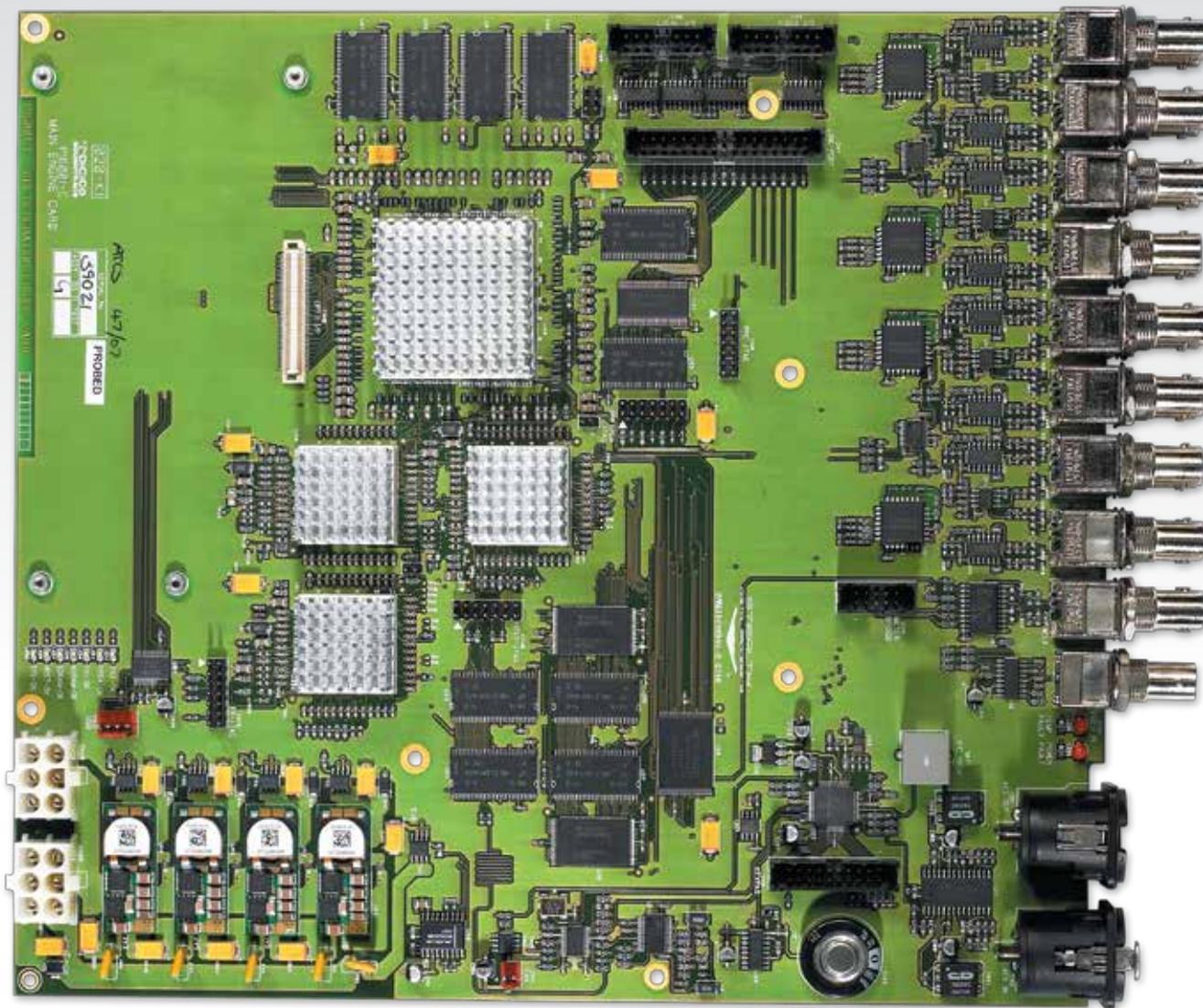
The SD11 offers an exceptional array of channels, processing and input and output flexibility thanks to its unique DiGiCo architecture. Unlike conventional DSP based consoles, the SD11 has Super FPGA (Field Programmable Gate Array) technology with floating-point processing at its heart. This is combined with an Analog Devices Tiger SHARC® processor and underpinned by our Stealth Digital Processing™.

All of this power brings a host of benefits at every step of the signal path. For a start, you have no less than 64* input channel processing paths, all have superior headroom, up to 40 bit floating point processing and each is equipped with an extensive range of built-in, world-class EQ and dynamics sections. Additionally, a pool of dynamic EQs and multiband



- The SD11 engine allows for connection to a D-Rack and a MAD1 port for connection to other racks, consoles or simply recording and playback of the show for virtual soundcheck.





STEALTH™

DIGITAL PROCESSING

compressors can be allocated to channels or busses.

These channels are configured as 32 channel strips that can be instantly switched between mono and stereo to meet the increased demand for stereo inputs with no compromise in channel count* which is impossible to do with the limitations of DSP.

Onboard effects include six* comprehensive stereo effects, user-selected from the award winning suite of FX found on the SD7. You have the ability to add the Waves module option, opening the way to another 16 stereo plug-in racks, with eight plug-ins per rack, and you can assign the 12 onboard graphic equalisers to any channel or buss.

With up to 32 inputs from a D-Rack, 56 more via the SD11's MADi input, and not forgetting the sixteen analogue and two AES inputs on the console, you have a total pool of 106 inputs available (this is before the factory fitted optics, available on new consoles which adds a further 512 audio channels). This allows the SD11 to form the heart of a no-compromise recording and mixing system, or to extend a DiGiCo SD Series system with a DiGiCo Solutions LRB/LBB.

Its buss architecture is also unique at this price point, providing 12 stereo or mono busses simultaneously, together with a Master buss that can be selectable as stereo, LCR or even 5.1 on the B version.— LCR is perfect for installed systems in Houses of Worship, conference centres

and the like.

The high buss count, including two solo busses, makes the SD11 an excellent choice for mixing monitors as well as Front of House, and each channel's insert point is switchable to be either before or after the built-in processing and equaliser. For maximum output flexibility, there's also a well equipped 8 x 8 output matrix section with full processing on the output. There are no restrictions on matrix inputs. These can use any source: sockets, channels, busses, FX, etc.

* (SD11i and SD11B only)

SD11 – raising expectations

Manufactured with a steel chassis for strength and a polycarbonate-overlaid, aluminium work surface for reduced weight, all SD11s feature 12 touch sensitive moving faders below a 15" touch sensitive screen, making the SD11 as simple to use at speed as any other DiGiCo console.

16 Microphone pre amps, eight line outputs and two mono AES I/O are provided, in addition to which users have the option to connect a DiGiCo D-Rack to the CAT5EE port. This provides a remote I/O rack frame with an additional 32 Microphone inputs and up to 16 outputs.

Further connections are a MAD1 port, GPI/O, MIDI, Overview screen output, Word Clock I/O, an Ethernet port for console remote control / networking and a USB port for file exchange and session backup.

The SD11 features 32 input channels with full processing, eight of which can be configured as full Flexi Channels (32 Flexi channels on the SD11i and SD11B). All inputs have dual mono inputs for fast 'Main' and 'Alt' channel switching, which are ideal for corporate events where a large number of spare microphones may be required.

Standard input channel processing includes channel delay; single and multi channel presets; HPF and LPF, with an industry leading 24db per octave; four bands of parametric EQ with band curve selection; compressor and gate; moveable insert point and access to all bussing.

Standard output channel processing includes output delay; four bands of parametric EQ; filtering; compressor and gate; moveable insert point; groups with

buss to buss routing; and Auxes that have direct talk to output with dim control for fast monitor communication.

Dynamic EQ provides both expansion and compression on all four bands of the parametric EQ (on any four channels, six on the SD11i and SD11B). These powerful processors can be assigned to any of the input or output channels, whether they are Mono, stereo or LCR and four units can be allocated as required. Multi-band compressors are also installed, giving the user extended dynamic control of any input or output channel. Again, four units (six on the SD11i and SD11B) can be positioned on either input or output channels.

One of the more unusual features for a digital console with the SD11's small footprint is that it has 12 Flexi Busses, which can be user configured as either mono or stereo. In its maximum configuration these could be used as 12 stereo mixes - equal to a remarkable 24 busses.

As well as this already substantial bussing resource, an additional stereo or LCR Master buss (LCR, LCRS or 5.1 Master in the case of the SD11B) and 8x8 output matrix is provided, facilitating the SD range's renowned routing flexibility. Eight control groups (VCAs) are also provided for faster access to multiple channels and busses, user and snapshot configured for ultimate show control. Dual solo busses are also provided, making the SD11 well suited to managing Front of House and Monitoring tasks alike.

An unlimited amount of Snapshots can be

saved and recalled, with user defined recall scopes being set globally, per snapshot or per channel function. Additional tools include feature-defined crossfade, sequence fire, MIDI control and a Snapshot notes panel.

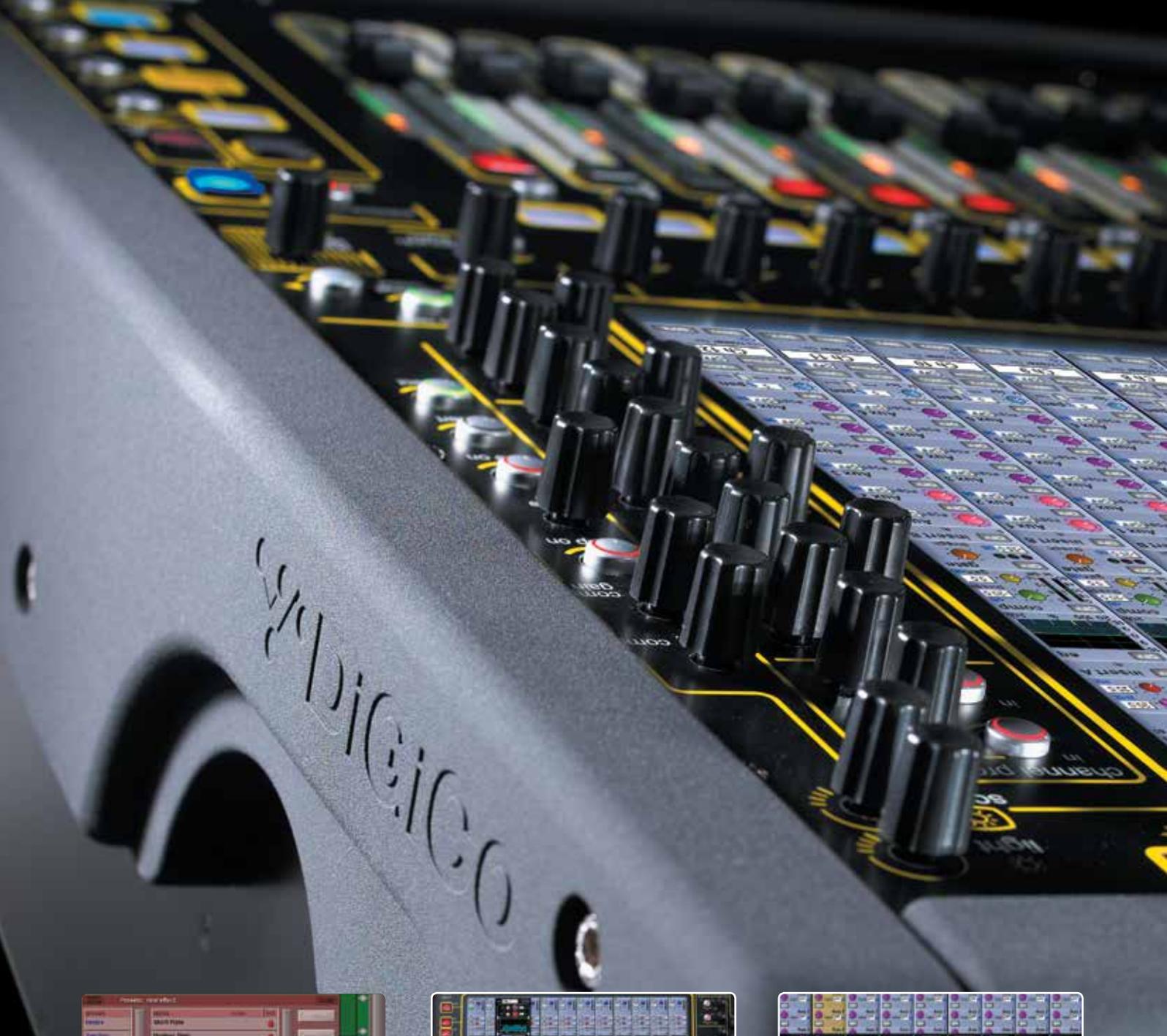
In addition to the SD11's core processing functions, insertable Stealth stereo FX and 12 graphic EQs can be routed, controlled and even snapshot recalled for the most complex show design. Four Stealth stereo FX units (six on the SD11i and SD11B) can be configured at any time from the palette of thirty-three effects.

All SD Series consoles integrate with Waves plugins. Unlike any other Sound Grid platform, DiGiCo provides complete control of plugin parameters, as well as recall of snapshots and single loading and saving, directly from the console's surface. Sixteen stereo Sound Grid racks can be inserted, with up to eight plugins in each rack.

Like all DiGiCo consoles, the SD11 software runs on a standard PC or Intel-based Macintosh for offline preparation and remote control of the console. One SD11 can also be linked to another, using a standard CAT5E crossover cable, providing 24 faders for control. In this configuration, the audio engine of the first SD11 provides complete redundancy for the other.

A final important facility is that advanced security options can be configured to protect console settings from accidental or unwanted change. These can also be password protected, making it possible to vary the amount of user parameter control.





> Build your FX racks simply using the central touch screen and select from a wide range of powerful, built in, natural sound effects including reverbs, delays, choruses, pitch shifting and more.



> Dynamic EQ is perfect for dealing with those troublesome frequencies that only rear their head as the band really get going. Control the high-mid on an electric guitar as the passion of the solo starts to become uncomfortable or deal with unexpected sibilance on a vocal mic automatically.



> Multi-band compression is perfect for use with in ear monitor mixes, keeping the artist safe from damaging high frequencies or just smoothing out the tonal balance of the mix simply and effectively allowing you to concentrate on mixing the show.

Dedicated Quick Access Encoders and Buttons

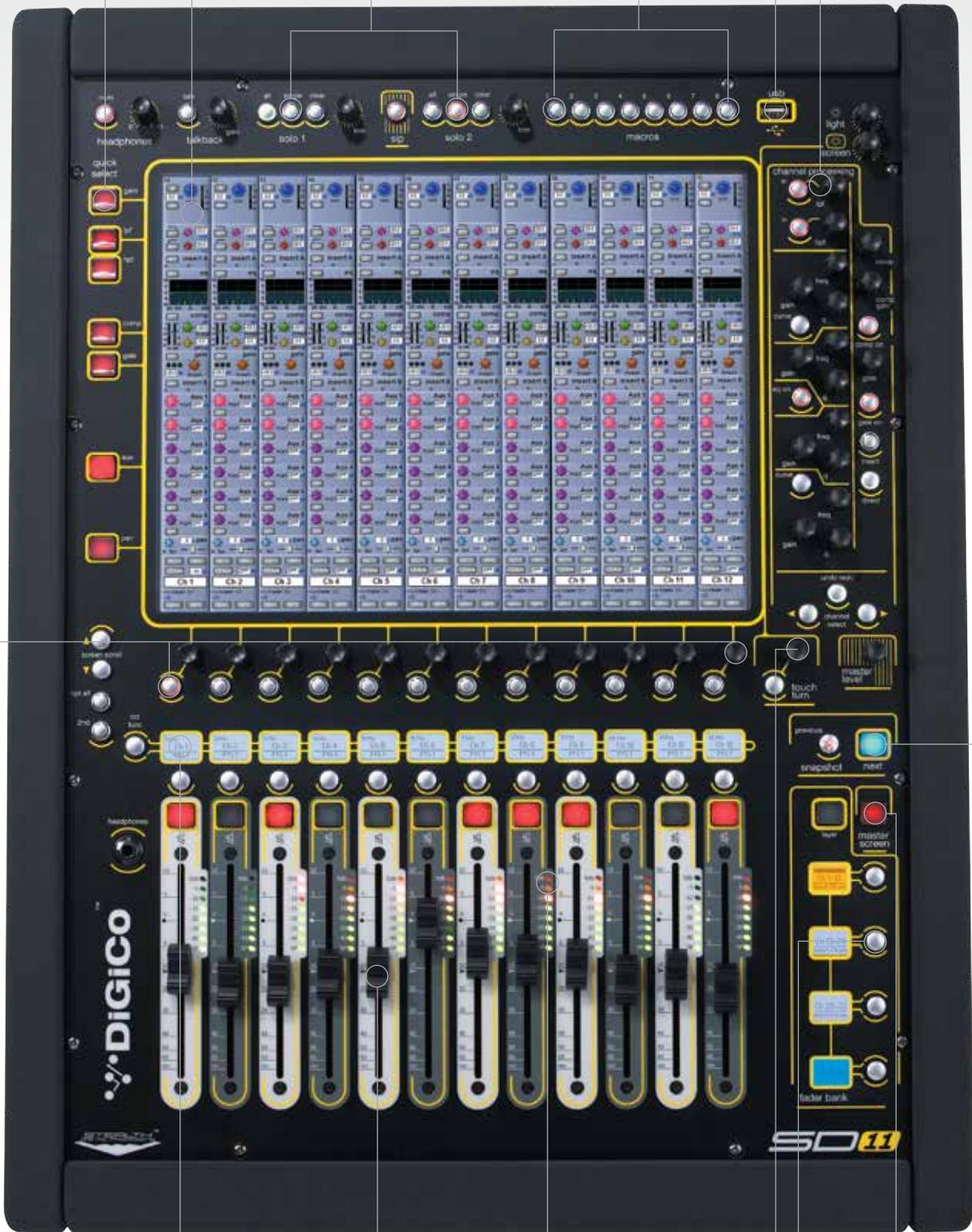
Quick Select Function Buttons
15" Wideview Touch Screen

Two Solo Busses

8 User Defined Macros

USB Connection

Channel Controls



3 Line Multi Function LCD Buttons

100mm Faders

8 Segment Meter Strips

Touch Turn Encoder and Button

Fader Bank Assign

Screen Assign

Previous and Next





D-RACK

For Total Flexibility

The SD11 system is digital from start to finish – yet it's also compatible with your analogue equipment. The D-Rack that's an option to the SD11 system comes with 32 microphone inputs, 8 line outputs and 8 modular outputs that can be selected as either analogue or AES, or even a full 16 channel Aviom card for all outputs, providing a maximum capacity of 32 ins and 16 outs. With a digital CAT5EE cable to connect to the console work surface, the familiar problems of hum and noise from analogue multicores are a thing of the past.

The SD11 is also expandable, so if your I/O requirements are greater, simply add a second D-Rack to the system via an additional CAT5EE and a Digico Solutions box – for a total of 64 inputs and 32 outputs connections on stage. The D-Rack can either be floor or rack mounted, and offers the option of a standard single power supply or optional dual redundant supplies.

A further option on the rear of the rack provides a fibre optic connection, allowing full compatibility with any DiGiCo SD Series console fitted with Optics, making the D-Rack ideal, as for example, a stage or orchestral submixer.

The console also provides a standard MADI connection, permitting up to 56 channels of direct recording output. This powerful facility gives you the ability to make live multitrack recordings of rehearsals and shows direct from your console.

Hook your laptop running Logic, Cubase, Nuendo, Samplitude, Reaper, Pro Tools or any other leading multitrack recording software to the dedicated MADI port and you have instant, low cost, studio quality 56 channel recording and playback set-up. Perfect, too, for fine-tuning scenes and settings at your leisure.





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 SD11 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.



Little Red Box, Little Blue Box

Expand your connectivity

DiGiCo's Little Red Box is specifically designed to work with DiGiCo's SD9 or SD11 digital mixing consoles and allows you to connect a D-Rack or a MADI Rack (SD Rack or SD Mini Rack) to two SD9s or SD11s

Currently, a single D-Rack only allows you to connect to one SD11 (or SD9), with no way of sharing the rack. The Little Red Box, however, will allow you to plug in your D-Rack, main console and a secondary console. The main console controls all gains, as well as outputs on the rack, whilst the secondary console acts as a 'receive only' module for the inputs, allowing you to share a rack and operate either Front of House or monitors. DiGiCo's gain tracking system can be activated when required. The handy SPLIT MADI switch allows you to decide if you want to split a D-Rack or one of DiGiCo's other racks. On an SD11 (or

SD9), this connector is usually limited to 32 inputs and 16 outputs. By connecting a DiGi-Rack it allows all 56 I/O to run and is therefore a great way of expanding the I/O capabilities of an SD11 (or SD9).

The Little Red Box is powered via USB, with a second USB port acting as a 'thru', meaning there is no loss of available connections

DiGiCo's Little Blue Box, allows you to connect an SD9, SD11, D-Rack and MADI console (SD8, SD10, SD5, SD7), thus allowing you to share a D-Rack between two or three consoles. The SD11 / MADI switch allows you to select between the SD11 (or SD9), or whatever console is plugged in to the MADI connector to control the D-Rack. The Console RX. Auxiliary output is designed to be the

redundant run on an SD8, SD10, SD5 or SD7. Alternatively, it could be split off to another console with one SD11 (or SD9) using a CAT5E connection and one MADI pair for say an SD8, which could then feed off to a recorder or another console. Once again, the Little Blue Box is powered via USB, with a second USB port acting as a thru.



> Little Red Box Connections



> Little Blue Box Connections



Waves SoundGrid®

Access the plugins you love



- > The SD11 already comes with its powerful Stealth Digital Processing™ powered suite of audio processing – but sometimes you want to access the plugins you know and love from the studio. Now it is so simple thanks to DiGiCo and Waves SoundGrid® giving you access to a wide range of Waves plugins in special bundles.
- > The choice doesn't only extend to the range of Waves effects - DiGiCo takes the concept of Waves integration even further than the norm. Unlike all other SoundGrid platforms, DiGiCo provides complete control of plug-in parameters, as well as recall of snapshots, simple loading and saving directly from the consoles' surface.
- > Console-based MultiRack software allows you to set up, control, recall, snapshot and save Waves plugin configurations as an integral part of your overall mix setup, while the processing power of the dedicated SoundGrid module allows the SD11's own processing power to remain dedicated to the task of driving the console and its work surface.
- > The DiGiCo Waves setup gives you instant access to up to 16 fully integrated, low latency Waves stereo processor racks, with up to eight plug-ins in each rack. Waves TDM plugins collections can be used too.

Plugin Bundles

Bundles and existing Waves plugins available online at www.waveslive.com or from Waves dealer/distributor



SSL-G Channel



Vocal Rider



Waves MultiRack



C4 Multiband Compressor



CLA-2A



Renaissance Equalizer

SD11 Specifications

General Specifications

Faders	12 x 100mm Touch-sensitive, motorised
Screens	1 x 15" (38cm) LCD high - resolution touch screen
Meters	12 x 8-Segment LED bargraph
Input Channels	32 Flexi channels Mono or Stereo (32 with 8 Flexi on SD11)
Busses	12 Flexi* (full processing**) + LR or LCR Master 12 Flexi* (full processing**) + LR or LCR or LCRS or 5.1 Master
Solo Busses	2 Stereo Busses
Matrix	8 x 8 Matrix (additional to busses above)
Control Groups	8, Selectable for VCA-style, Moving Fader, Mute Group
Graphic EQ	12 x 32-band, Gain +/- 12dB
Internal FX	4/6 Stereo FX Processors
Local I/O	16 x Mic/Line I/O, 2 x AES/EBU I/O (Mono)
MADI Interface	In / Out
Optic Interface	Optocore (with new factory order)
MIDI Interface	In / Out / Thru
VGA Port	DB-15 Mini-Female (1024 x 768 Resolution)
USB Ports (3)	USB 2
Light Connection (1)	XLR3 1.2 – 12V
Ext Sync	Word Clock, MADI
Headphone	TRS Unbalanced / 8-600 Ohms 1/4 Inch Jack
GPI	2 x 1/4" Jack TF
GPO	2 x 1/4" Jack TF
SD11 Dimensions	483mm (w) x 577mm (d) x 232mm (h)
SD11 Weight	24Kg
SD11 Flightcase (Option One)	700mm x 500mm x 900mm, flightcase only weight = 49kg
SD11 Flightcase (Option Two)	700mm x 400mm x 600mm, flightcase only weight = 30kg
SD11 Power Requirements	90-264 VAC, 47-63Hz Auto Sensing. 208 watts, 232VA

Application Specific Versions:

- SD11B

Audio Specification

Sample Rate	48kHz or 96kHz
Processing Delay	2ms Typical @ 48k (32 Stereo Channels, Stage Input Through L-R Buss to Stage Output) 1.1ms @ 96k
Internal Processing A>D & D>A	Up to 40-bit, Floating Point 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 Typical (20Hz - 20kHz)
Microphone Input	Better Than -126dB 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 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) On/Off Freq; 20 – 20kHz Gain; +/- 18dB Q: 0.1 -20 (Parametric) / 0.10- 0.85 (Shelf) Dynamic EQ On/Off Over/Under Band On/Off Threshold; -60 – 0dB Attack; 500us – 100ms Release; 10ms – 10s Ratio; 1:1 – 50:1



Dynamics 1 Compressor	Single or Multiband (3-Band) 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 Hi Crossover; 20Hz – 20kHz Lo Crossover; 20Hz – 20kHz Knee : Hard, Med, Soft
De-Esser	Threshold : 20us – 20ms Release : 1ms – 100ms Ratio : 1:1 – 50:1 Ess-Band : Listen On/Off Ess-Band Filter Freq / Width: 20Hz – 20kHz
Dynamics 2 Gate / Ducker	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
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 Hi Crossover; 20Hz – 20kHz Lo Crossover; 20Hz – 20kHz S/C Source : Any Source S/C Listen : On/Off 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 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 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) On/Off Freq; 20 – 20kHz Gain; +/- 18dB Q: 0.1 -20 (Parametric) / 0.10-0.85 (Shelf) Dynamic EQ On/Off Over/Under Band On/Off Threshold; -60 – 0dB Attack; 500us – 100ms Release; 10ms – 10s Ratio; 1:1 – 50:1
Dynamics 1 Compressor	Single or Multiband (3-band) 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 Hi Crossover; 20Hz – 20kHz Lo Crossover; 20Hz – 20kHz Knee : Hard, Med, Soft
De-Esser	Threshold: 20us – 20ms Release: 1ms – 100ms Ratio: 1:1 – 50:1 Ess-Band: Listen On/Off Ess-Band Filter Freq/Width: 20Hz – 20kHz
Dynamics 2 Gate / Ducker	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

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 Hi Crossover; 20Hz – 20kHz Lo Crossover; 20Hz – 20kHz S/C Source : Any source S/C Listen : On/Off 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

SD11 Quick Reference

Quick Reference	SD11/SD11i	SD11B
Maximum Number of Input Processing Channels	32 Flexi*	32 Flexi*
Maximum Buss Count	39***	45***
Max Aux / Sub-Group Busses	12 Flexi* (full processing**)	1x Surround + 12 Flexi* or 2x Surround + 9 Flexi*
Matrix (In Addition to Aux/Sub - Group)	8 x 8 (full processing**)	8 x 8 (full processing**)
Solo Busses	2	2
Max Number of Inputs - Non Optic Consoles	130	130
Max Number of Inputs - 1 Console on Optic Loop	578	578
Max Number of Inputs - 2 Consoles on Optic Loop	634	634
Local I/O Spec	16x mic/line inputs, 8x line outputs, 2x AES/EBU I/O (mono streams)	
Max Number of Outputs	122 (Non Optics)	122 (Non Optics)
Max Number of Faders	12	12
Screen	1x 15" touch	1x 15" touch
External Overview Screen	Yes	Yes
I/O Expandability	Yes	Yes
Insert Points / Channel	1	1
On Board FX	4/6	6
Graphic EQs (32-Band)	12	12
Dynamic EQ	4/6	6
Buss Parametric EQ	4 band only	4 band only
Multiband Compression	4/6	6
DiGiTuBes	4/6	6
Multi-Channels	Yes	Yes
VCA - Style Control Groups	8	8
Set Spill	Yes	Yes
Mute Groups (Part of Control Groups)	8	8
Reorder Busses	Yes	Yes
Multi-Operator	By remote only	By remote only
Surround	No	Yes
MADI Connectivity	1x Port	1x Port
Optics	Yes, with new factory order	Yes, with new factory order
Snapshot Offline	Yes	Yes
Snapshot Auto-Update	Yes	Yes
Sampling Rates	48 / 96 kHz	48 / 96 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 OS	Yes (Dual Surface)	Yes (Dual Surface)
Redundant PSU's	Yes - by remote PSU option only	Yes - by remote PSU option only
Maximum Single Stage Rack Spec	D-Rack (32 - 16) - SD-Rack (56-56)	D-Rack (32 - 16) - SD-Rack (56-56)
Maximum Number of Racks Non Optic	2	2
Rack Interface	MADI / RJ45 CAT 5E / Optocore (option)	MADI / RJ45 CAT 5E / Optocore (option)
Connector Type for Racks	BNC / CAT 5E / HMA optics / ST / Opticalcon (option)	
Rack sharing FOH/MON	Gain Tracking	Gain Tracking
Offline Software	Yes	Yes
Recording	Virtual Soundcheck up to 56 channels	
Dimensions (mm) and Weight (kg)	483(w) x 577(d) x 232(h) - 24Kgs	483(w) x 577(d) x 232(h) - 24Kgs
Dimensions (inches) and Weights (lbs)	19.02(w) x 22.72(d) x 9.13(h) - 53lbs	19.02(w) x 22.72(d) x 9.13(h) - 53lbs

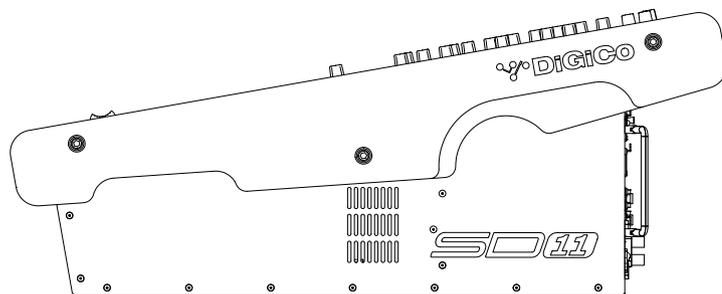
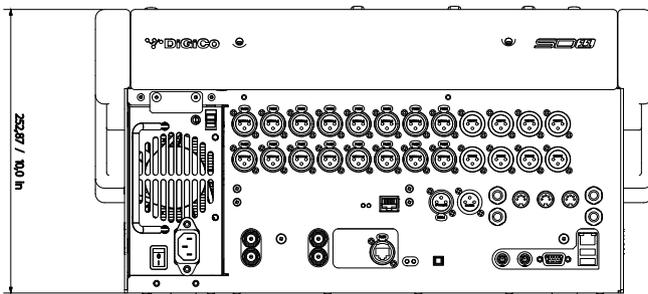
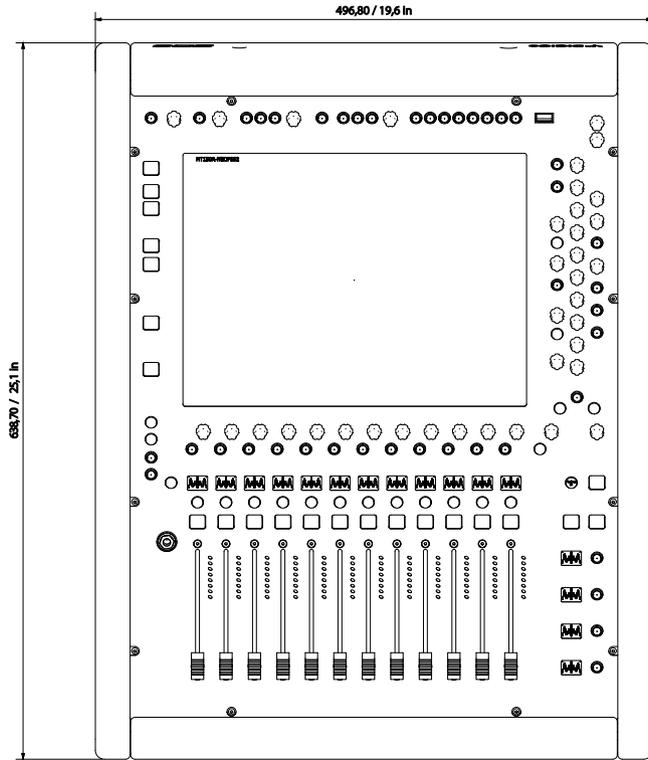
* Flexi - Configurable Mono or Stereo without the loss of any resources

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

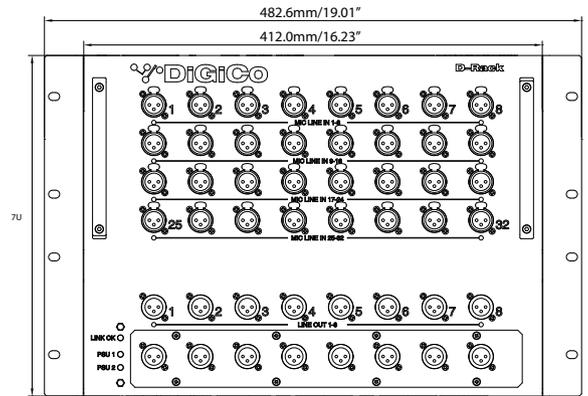
*** Max Buss Count is Calculated as Aux / Group Buss + Master Buss (LCR or 5.1 depending on Product) + Matrix Buss + 2 Solo Busses (up to 5.1 Depending on Product)



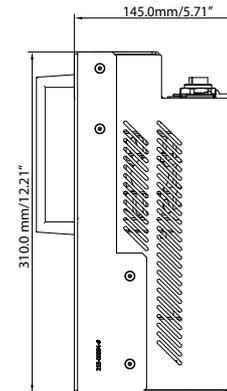
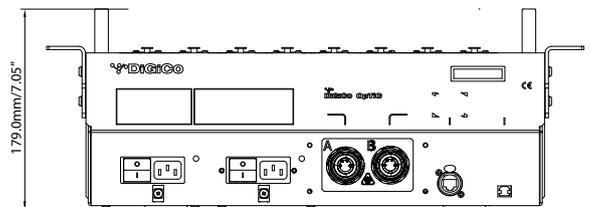
SD11 Line Drawings



D-Rack Line Drawings



D-Rack Line Drawings

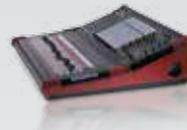


Product Comparison



	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**) 1x Surround + 16 Flexi* or 2x Surround + 13 Flexi* or 3x Surround + 10 Flexi*	12 Flexi* (full processing**) 1x Surround + 12 Flexi* or 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/ EBU I/O (mono streams)	8x mic/line, 8x line outputs, 8x AES/ EBU I/O (mono streams)	8x mic/line, 8x line outputs, 4x AES/ EBU I/O (mono streams)	16x mic/line inputs, 8x line outputs, 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 (@ 48kHz)	Up to 56 in / 56 out / MADI split x2 (@ 48kHz)	D-Rack (32 - 16) - SD-Rack (56-56)	D-Rack (32 - 16) - 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 (option)	BNC / HMA optics / ST / Opticalcon (option)	BNC / CAT 5E / HMA optics / ST / Opticalcon (option)	BNC / CAT 5E / HMA optics / ST / Opticalcon (option)
Gain Tracking	Gain Tracking	Gain Tracking	Gain Tracking
Yes	Yes	Yes	Yes
Virtual Soundcheck up to 108 channels	Virtual Soundcheck up to 112 channels	Virtual Soundcheck up to 56 channels	Virtual Soundcheck up to 56 channels
1398/*982(w) x 818(d) x 285(h) - 60/*45Kgs	1347/*923.5(w) x 811(d) x 254(h) - 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) - 132/*99.2lbs	53.03/*36.35(w) x 31.93(d) x 10(h) - 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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