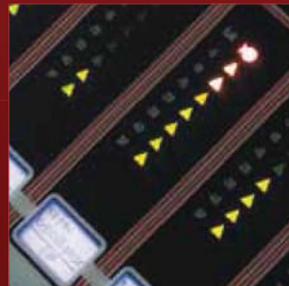
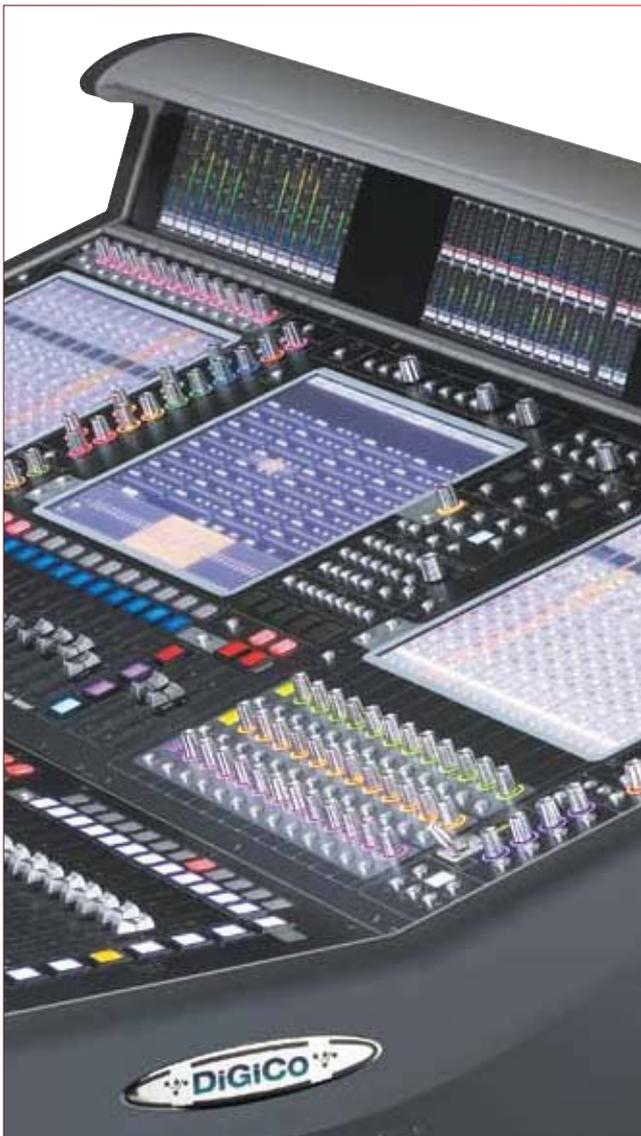


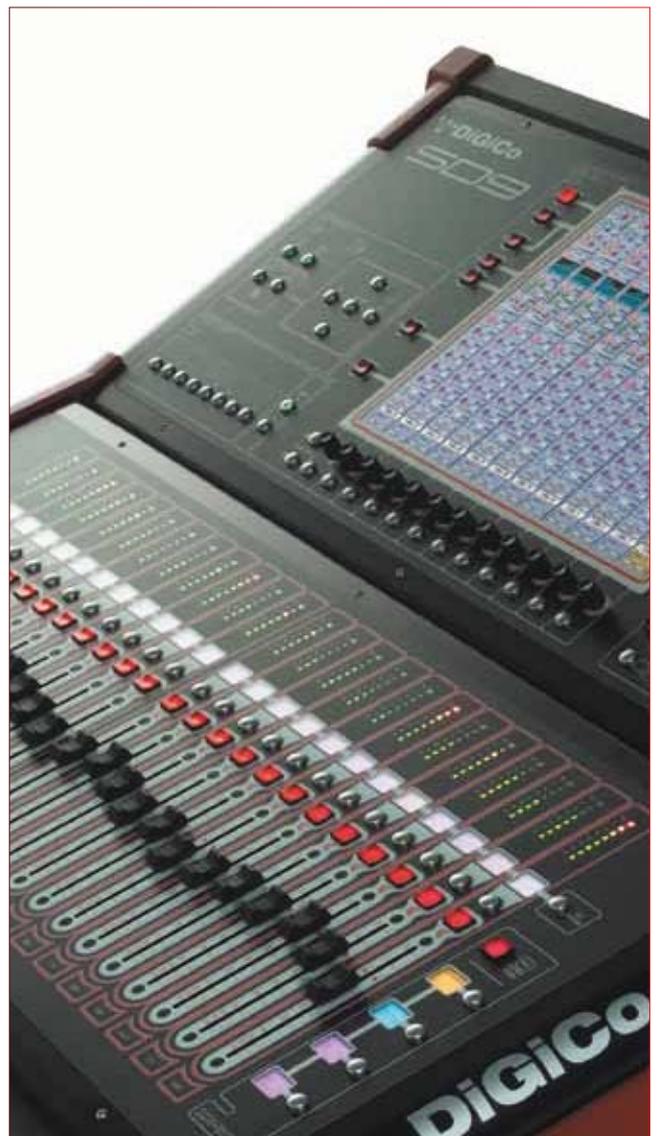


DiGiCo

S09







Mixing in great company: Whichever SD Series frame size suits you, you'll find the same creative mixing power, versatility and exceptional sonic purity that runs through the entire SD Series, from the pioneering SD7 to the ultra-compact SD9.

These are the qualities that have made DiGiCo consoles the digital mixing platform of choice for a breathtaking spectrum of users around the world. From major international touring artists to Broadway and West End theatre installations; from live TV broadcasts and sports events to houses of worship of all shapes and sizes; from nightclubs and festivals to cruise ships and carnivals.

One common factor inspires their choice: an unquenchable love of making great music, combined with a desire to mix it on the best sounding and most intuitive range of consoles in the world.



A world-class digital mixing system at an exceptional price

The future is here, and how. A compact, world-class digital mixing system at an exceptional price. Forget the limitations of conventional digital or analogue mixing. The new DiGiCo SD9 is a class apart and a whole generation ahead.

At its heart is the same Stealth Digital Processing™ and unique Super FPGA technology that add up to the finest sonic quality yet heard in a digital mixing console.

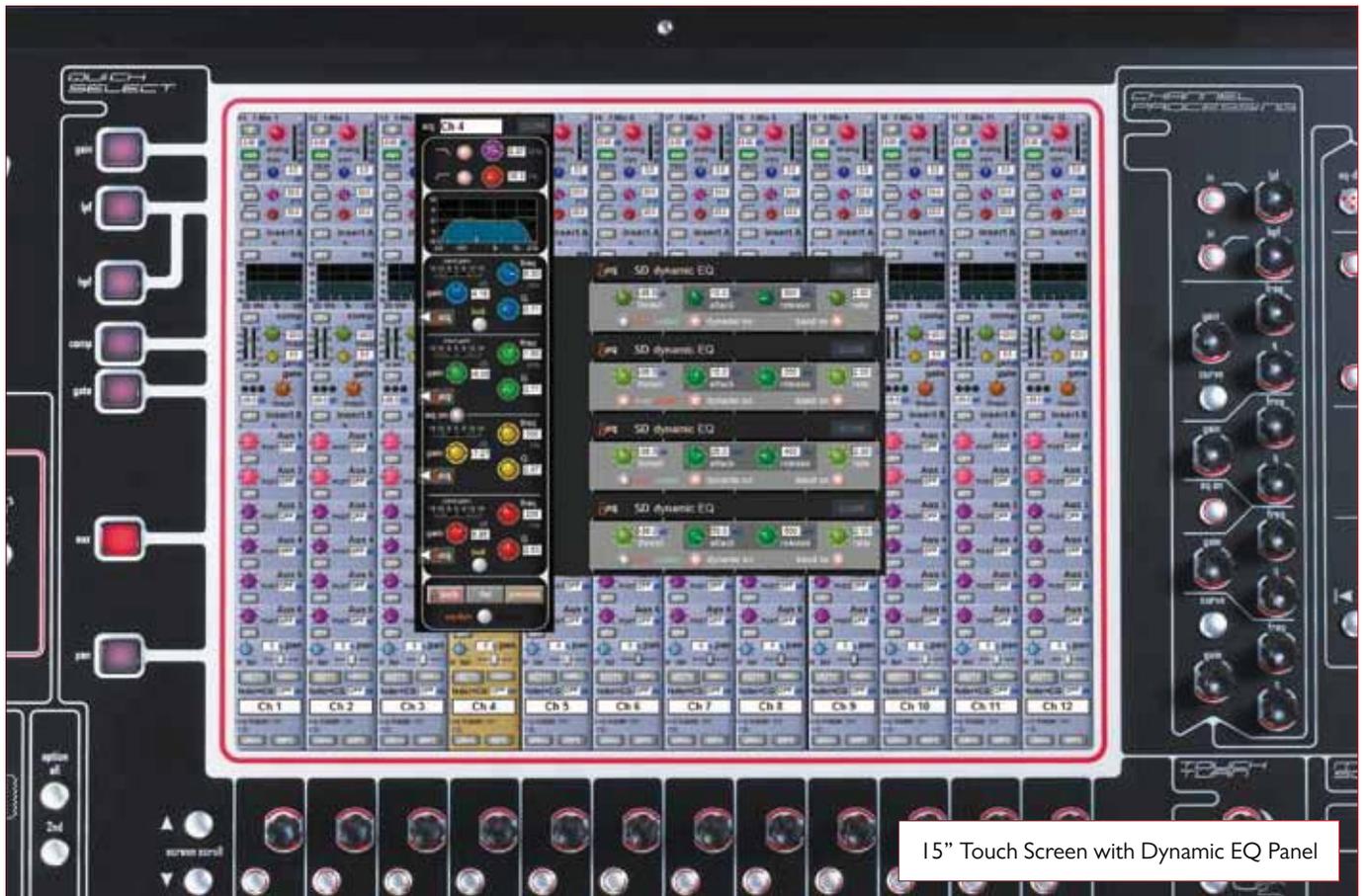
This is what powers the legendary, top-of-the-line DiGiCo SD7 and is the sound of the console chosen for U2's 360° Tour, The Killers' Get Six of the Best, Aerosmith Toys in the Attic, Massive Attack, Madonna's Sticky & Sweet tour and Kylie's European Arena tour, events such as the Montreux Jazz Festival, television shows such as The X Factor and Britain's Got Talent and major theatrical productions such as Billy Elliot, Lion King and Love Never Dies.

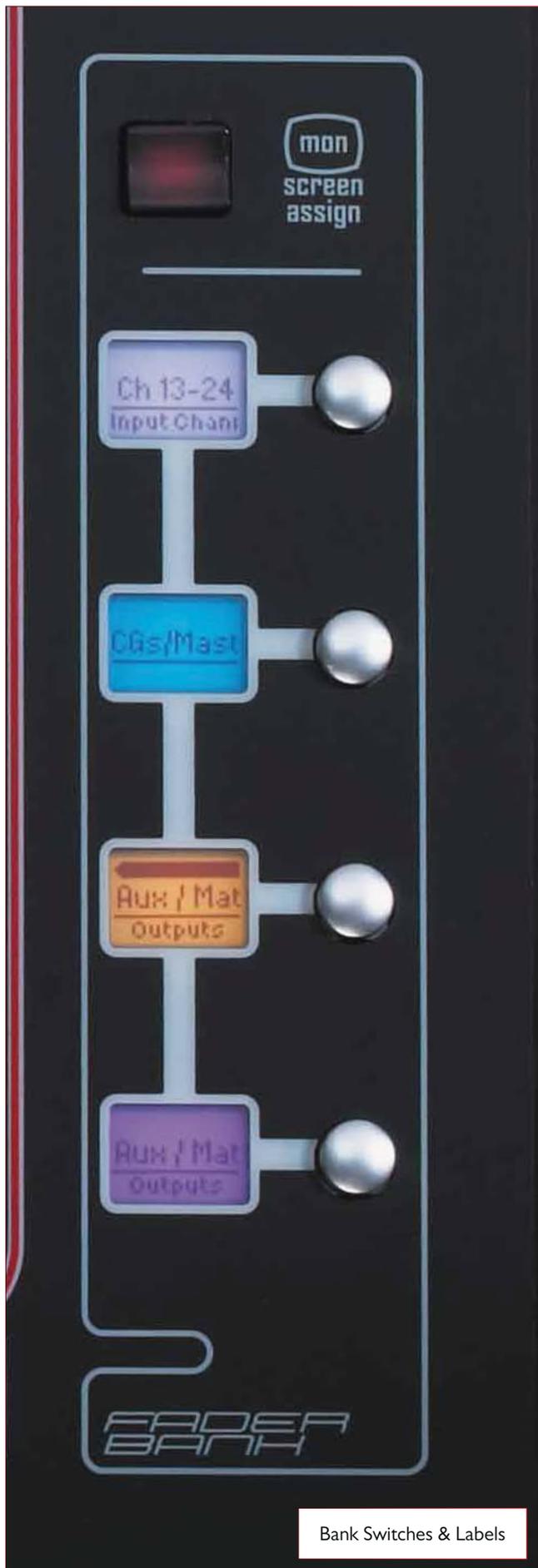
Now, with the SD9, you can mix with that same, high-end audio quality in a smaller package and at a lower cost. Add in the elegant, moving fader work surface and giant full colour TFT LCD touch screen and the SD9 will bring back the joy of live mixing in real time - whatever your budget.

What's more, the accompanying D-Rack means the SD9 is a complete, integrated system including mixing work surface, digital stage interface and CAT5E digital multicore. You can simultaneously record 56 channels direct to your favourite multitrack software or DAW, bring those tracks back in to remix or rehearse, and recall everything on the night via the SD9's powerful Snapshot facilities.

The DiGiCo SD9. Join the revolution.







Bank Switches & Labels

The new DiGiCo SD9 stunningly redefines what the world can expect from a compact digital mixer. With the accompanying D-Rack the SD9 provides you with a complete, integrated system including mixing work surface, digital stage interface and CAT5E digital multicore, with the ability to simultaneously record 56 channels direct to your favourite multitrack software or DAW. And all at a price that makes it the perfect solution for touring bands, schools, conference centres, smaller theatres and a host of other applications requiring exceptional performance and great flexibility for your budget.

A first glance at the distinctive front panel shows you how the SD9's highly compact format embodies the DiGiCo heritage that has seen our D and SD Series consoles specified for so many of the world's leading artists and events.

The giant 15" full colour TFT LCD touch sensitive screen means you can forget complex menu-driven interfaces, because nothing is ever further than a touch away. Your effects, dynamics and equalisation can be summoned up for each channel in a split second, with no hunting through multiple menus. 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. Your mix is created on a bank of 24 full-length motorised faders with accompanying high resolution bar graph meters.

You'll love the SD9's snapshot flexibility – allowing you to capture and recall every setting for unlimited snapshots throughout a rehearsal, soundcheck or live performance. It provides such features as global scope, channel specific recall per snapshot, and a global cross-fade for each console section – and there are eight user Macros for fast access to presets. For users upgrading from analogue or a budget digital desk, the SD9's snapshot and Macro facilities will open an exciting new realm of possibilities.

And behind it all is the powerful heart of all our latest consoles – Stealth Digital Processing™, now in its third generation, with Super FPGA technology incorporating floating point processing, for superior headroom, dynamic range and overall audio quality. The result is true high end: the smoothest, most accurate and yet thoroughly musical sonic performance you've ever heard from a mixing console.



Snapshot Screen



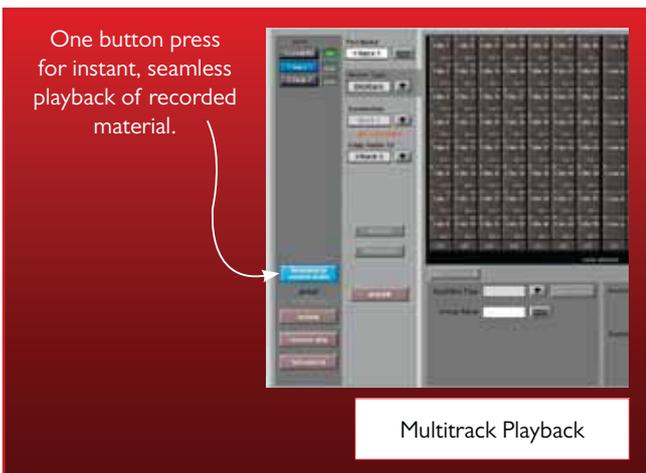
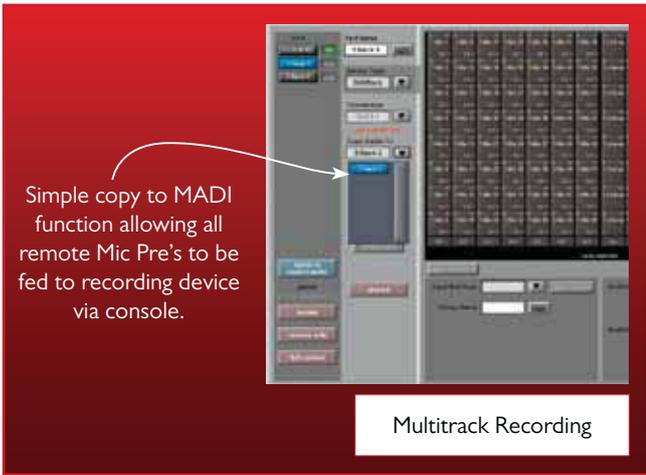
D-RACK FOR TOTAL FLEXIBILITY

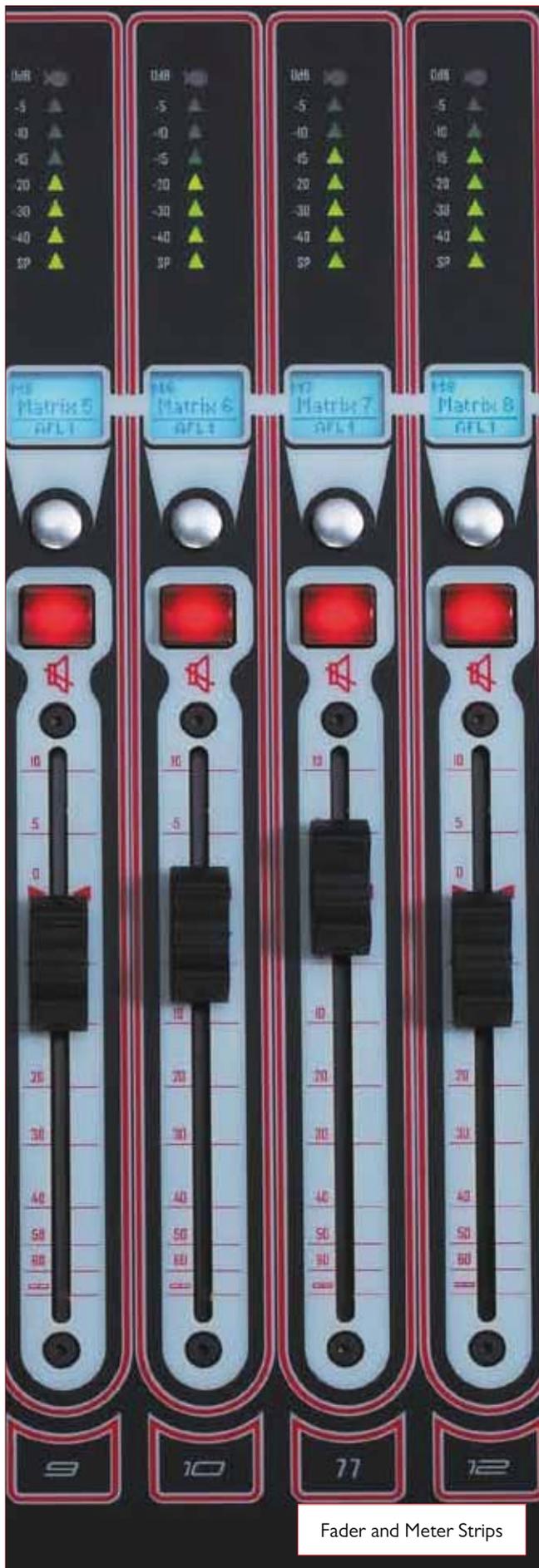
The SD9 system is digital from start to finish – yet it's also compatible with your analogue equipment. The new D-Rack that's an integral part of the SD9 system comes with 32 microphone inputs, 8 line outputs and 8 modular outputs that can be selected as either analogue or AES, providing a maximum capacity of 32 ins and 16 outs. With a digital CAT5E 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 SD9 is also expandable, so if your I/O requirements are greater, simply add a second D-Rack to the system via an additional CAT5E – for a total of 64 inputs and 32 outputs. 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 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.





Fader and Meter Strips

A MASTER OF CLARITY

DiGiCo's award winning design team has focused from the very beginning on making it fast and easy for sound engineers to navigate the extensive feature set, and simply concentrate on enjoying the creativity of live mixing. The SD9 is no exception, and on a feature-packed control surface our signature LCD TFT touch screen (plus an external overview screen, if you wish) places you in a position of tremendous control combined with unrivalled clarity.

You'll enjoy instant controllability over multiple functions, 24 motorised faders, dedicated and multi-function control knobs and electronic labelling. And, of course, the same 15" interactive LCD TFT touch screen that you'll find on any DiGiCo console up to and including the market-leading SD7.

The super high resolution backlit display gives you an instant overview of the SD9's major controls, and a clear view of the complete signal path at every moment. A single touch can bring up each channel's fully parametric four-band equaliser, dynamics section, effects, routing and more.

As you select a function the screen automatically displays parameters that are exactly relevant to what you're doing right now, (such as the full dynamics processing, that appears under your fingertips when you press a channel strip and hit the dynamics section).

The menu-free, real-time approach is critical to being able to react instantly to what's happening on stage, with no fumbling for hidden commands. A physical fader, knob or backlit and electronically labelled button is either provided as standard for every major mix function, or can be programmed onto one of the user macro buttons.

The 24 highly accurate, durable and user-assignable channel faders have touch-sensitive fader caps to put even more intuitive controllability right where you need it. And each fader is accompanied as standard with an LED bargraph level meter integrated into the work surface with a polycarbonate overlay, eliminating the need for a bulky meter bridge.



Overview Screen

**SD8 and SD9 share 80 inputs from a MADI Rack and D-Rack
SD9 recording up to 56 inputs from both racks
Little Blue Box and Little Red Box together**

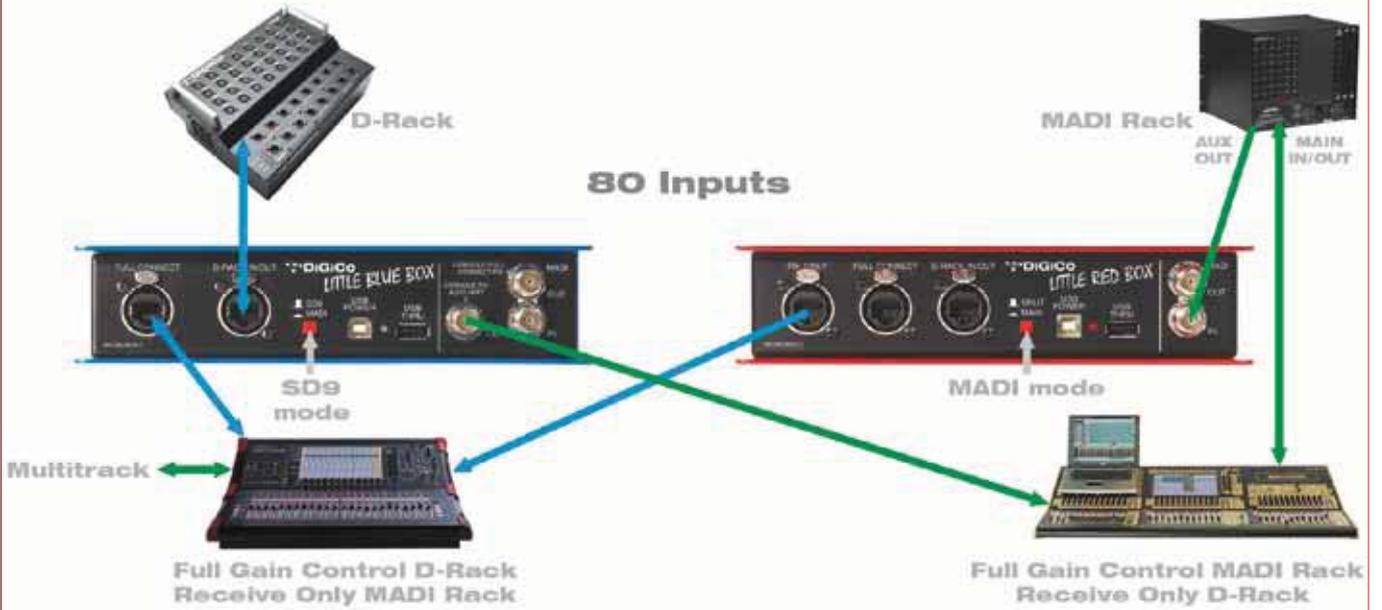
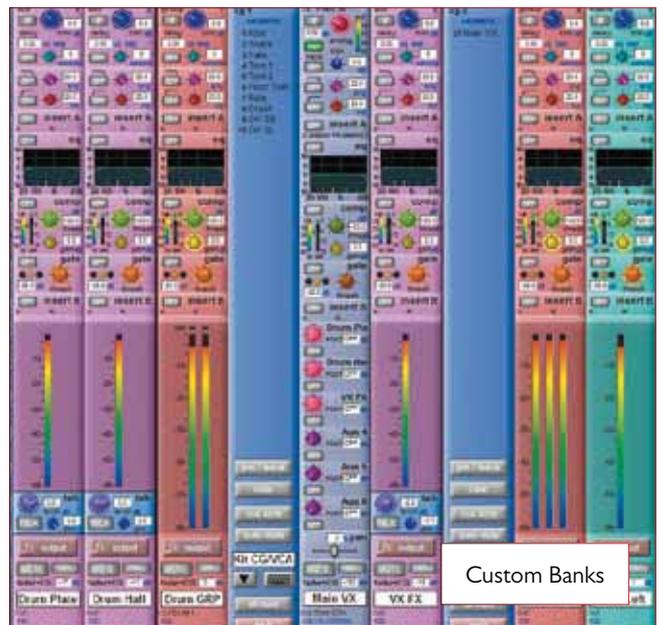


Fig. 1





Flexi Channels and Alt Input

STEALTH MIXING POWER

The SD9 offers an exceptional array of channels, processing and input and output flexibility thanks to its unique DiGiCo architecture. Unlike conventional DSP based consoles, the SD9 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 80 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 compressors can be allocated to channels or busses.

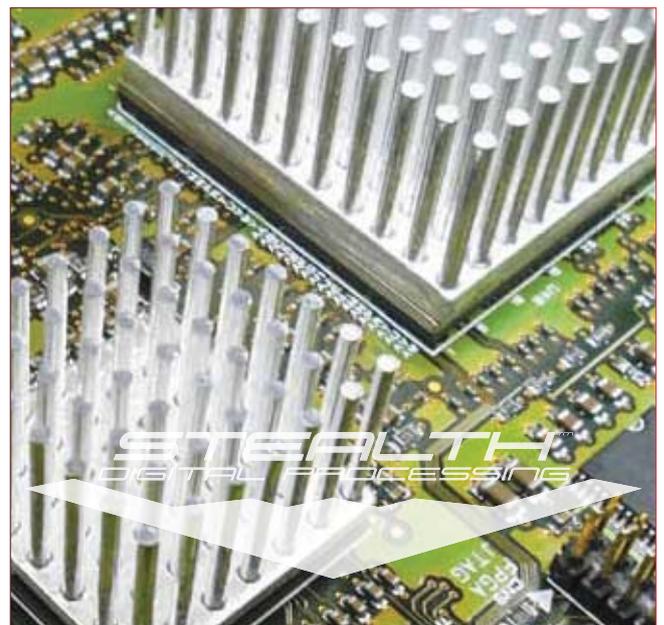
These channels are configured as 40 channel strips that can be instantly switched between mono and stereo to meet the increased demand for stereo inputs with no compromise in channel count.

Onboard effects include four 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 16 onboard graphic equalisers to any channel or buss.

With up to 64 inputs from a pair of D-Racks, 56 more via the SD9's MAD1 input, and not forgetting the eight analogue and four AES inputs on the console, you have a total pool of 132 inputs available. This allows the SD9 to form the heart of a no-compromise recording and mixing system, or to extend a DiGiCo D or SD Series system with a DiGiCo Solutions LRB/LBB, as shown in fig 1.

Its buss architecture is also unique at this price point, providing 16 stereo or mono busses simultaneously, together with a Master buss that can be selectable as stereo or LCR – the latter is perfect for installed systems in Houses of Worship, conference centres and the like.

The high buss count, including two solo busses, makes the SD9 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.



Quick Select
Function Buttons

15" Wideview
Touch Screen

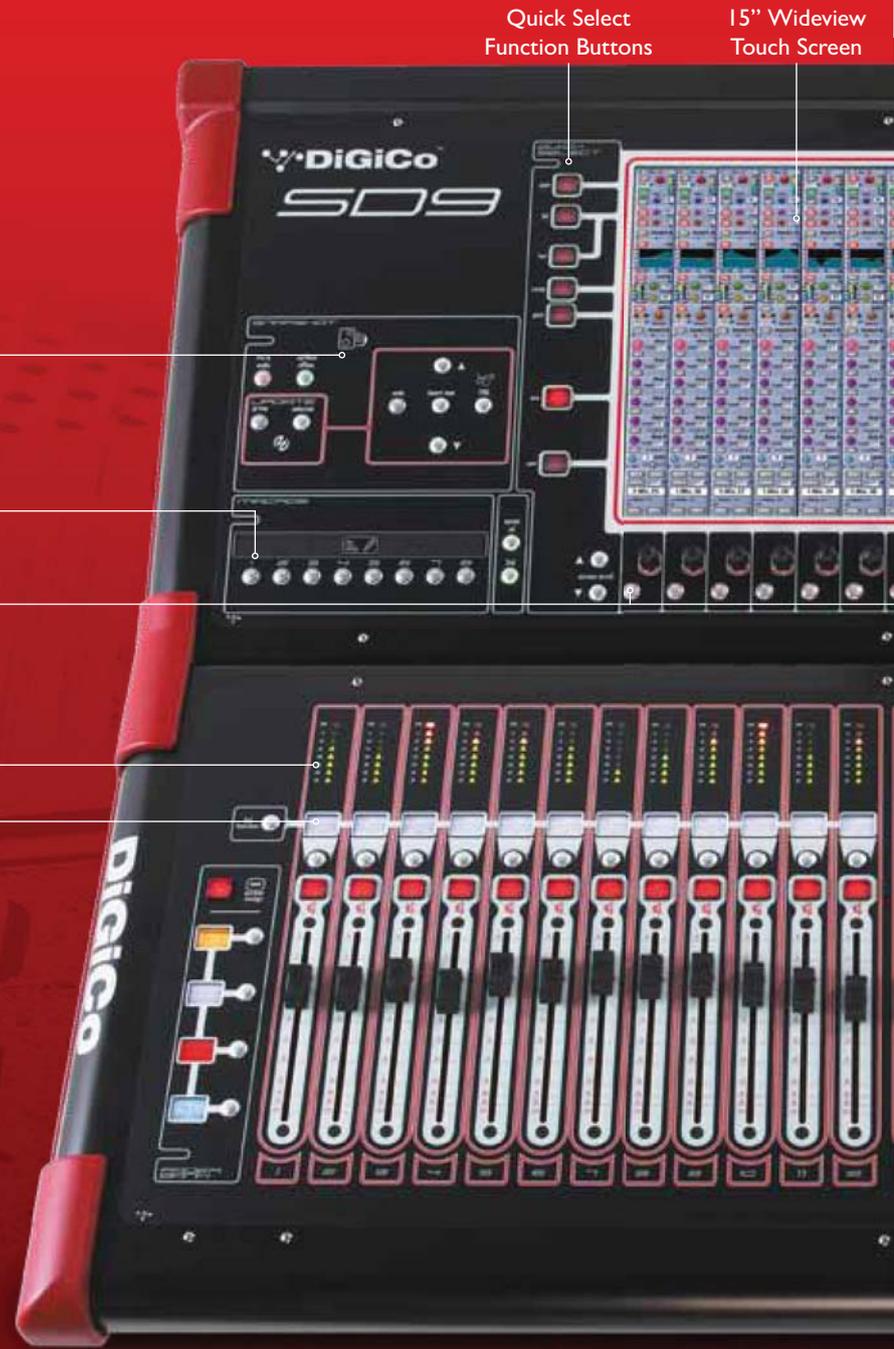
Snapshot Recall, Update

8 User Defined Macros

Dedicated Quick Access
Encoders and Buttons

8 Segment Meter Strips

3 Line Multi Function LCD Display



STEALTH™
DIGITAL PROCESSING

3 Pin Light Connection

GPI/GPO

Optional SoundGrid Module Slot



PSU

Optional Dual Hot Swap PSU



Channel Controls

USB Connection

Two Solo Buttons

Touch Turn Encoder and Button

Previous and Next

Screen Assign

Fader Bank Assign

100mm Faders



3 Pin Light Connection

Local I/O

Network For Remote Control

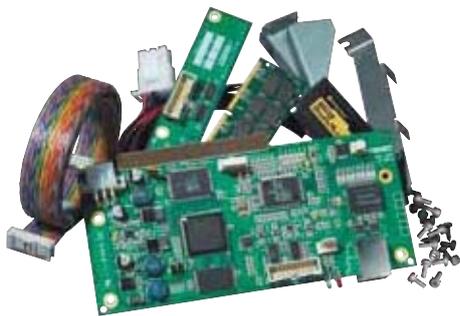
Overview Screen

Word Clock Sync

MADI I/O
For Recording

Dual D- Rack CAT5E Connections





DiGiCo integrated Waves interface.

Fitted as option on SD console or as kit from DiGiCo dealer/distributor



Waves SoundGrid server and suitable gigabit network switch
Available from Waves dealer/distributor



Plugin Bundles

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



If you've had to face choosing between the world's finest sounding and most intuitive digital console range, or using another mix platform simply to exploit the versatility of Waves plugins, the exciting news of DiGiCo/Waves SoundGrid should be sweet music to your ears because DiGiCo now brings you the best of both worlds.

With the new DiGiCo SoundGrid module added to your SD7, SD8 or SD9 console and linked to an external PC server, you'll have instant access to up to 16 fully integrated low latency Waves stereo processor racks on the SD8 and SD9, and up to 32 on the SD7, perfect for either front-of-house or monitors. Plus, once registered, you can use your TDM plugin collections too!

Using Super FPGA (Field Programmable Gate Array) technology that links directly via Ethernet to the SD7, SD8 or SD9's digital mixing engine, the SoundGrid places the legendary lineup of powerful Waves plugins at your fingertips. That includes the hugely popular bundles such as Mercury, SSL 4000 Collection, GTR3, JJP Analog Legends, Studio Classics Collection, The API Collection and Gold. Popular plugins you can now enjoy with your DiGiCo console's crystalline sound include L2 Ultramaximizer and C4 Multiband.

All of these are on top of the powerful multi-effects engines already built in to the SD7, SD8 and SD9 and, better still, once your iLok key is registered with Waves, you'll also be free to use all your existing Waves TDM plugins in your SoundGrid too – with the same integrated benefits. Please check www.waveslive.com for more information on the SG enabler.

SIMPLE TO SET UP AND USE

Console-based MultiRack software allows you to set up, control, recall, snapshot and save Waves plugin configurations processed on the dedicated, rack-mounted external server over a Stealth-Waves Ethernet connection.

The SoundGrid module itself is fitted inside the console to a dedicated expansion port mounted directed on the console's FPGA Stealth engine board, reducing the data path to an absolute minimum for precise timing. It handles the Waves effects routing so the console's own awesome processing power remains dedicated to the task of driving the console and its worksurface.

Better still, the SoundGrid parameters are right there in front of you, on the SD8 or SD9's touch screen via a special Waves button, allowing you to assign the particular plugins to the point in the console signal path architecture where you want to use them – input channel inserts, mix buss or wherever – then manipulate them too with the touch-and-turn function on the desk. As a fast and intuitive way of working it takes some beating.

And when you decide to save your current configuration, you only need to hit 'Save' once thanks to the seamless integration between the console and the MultiRack. If you're migrating your session settings to another SD7, SD8 or SD9, simply save the console settings onto a memory stick as you normally would, then the console will automatically do the same for your personalised Waves settings.

WAVES VERSATILITY FOR EVERY DiGiCo USER

The DiGiCo/Waves SoundGrid is a must for every DiGiCo user - and for every Waves fan who wants to hear those acclaimed plugins through the best sounding digital console on the market. For rental companies stocking DiGiCo SD7 and/or SD8 and SD9 consoles, you can now buy a library of plugins to add to the value of your rental offering, and benefit from the consoles' appeal to a broader range of sound engineers and musicians who use other, often sonically inferior, mixing platforms in order to use their favourite Waves plugins.

For engineers who buy their own plugins, all you need to know is that your chosen rental company has SoundGrid-enabled DiGiCo desks, and you're away – limitless, exciting creativity beckons.

Even monitor engineers, faced with historic problems of latency in other boards running plugins, can celebrate as the low-latency of the FPGA-powered system gives them equal bragging rights with front-of-house. Once again, you don't have to settle for a lesser brand of console to get them.

And if your need is to create a recording of the master with all the internal and Waves effects together, it's a breeze for DiGiCo's MADi-based multitrack recording I/O – a fully integrated solution all round.

AND THERE'S MORE TO COME

DiGiCo/Waves SoundGrid is ready to expand your mix capabilities right now, but there's much more to come too. Invest in a DiGiCo SD7 SD8 or SD9 with SoundGrid and you're joining a community of SoundGrid users who will benefit from some very exciting developments in the near future, all fully compatible with your new SoundGrid package.

High on the 'upcoming' list are specific SoundGrid-exclusive live sound plugins and other unique effects – which will be made available as downloadable upgrades. So as the SoundGrid collection grows in future years, your DiGiCo console is fully ready to make the most of it.

As you can see, as a cool, not-to-be-missed option for your SD Series DiGiCo console, it's an inexpensive way to add the huge freedom of expression that SoundGrid and the Waves plugins collection can bring to your tour, installation, house of worship or rental company. Now we can offer you true empathy with both engineers and artists.

DiGiCo Waves SoundGrid. Low latency, full console integration. The perfect combination of plugins and the market leading digital consoles. It's going to make more than just a ripple.



Q10 Parabolic Equalizer



Vocal Rider



C4 Multiband Compressor



Waves MultiRack



CLA-2A



Renaissance Equalizer



SuperTap



SSL-G Channel

SD9 TECHNICAL SPECIFICATIONS

General Specifications

Faders	24 x 100mm Touch-sensitive, motorised
Screens	1 x 15" (38cm) LCD high - resolution touch screen
Meters	24 x 8-Segment LED bargraph
Input Channels	40 Flexi channels Mono or Stereo
Busses	16 Flexi Mono or Stereo busses + LR or LCR 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	16 x 32-band, Gain +/- 12dB
Internal FX	4 Stereo FX processors
Local I/O	8 x Mic/line I/O, 4 x AES/EBU I/O (mono)
MADI interface	1 x 75 ohm BNC connectivity
D-Rack interface	2 x RJ45
MIDI interface	In / Out / Thru
VGA port	DB-15 mini-female (1024 x 768 resolution)
USB ports (3)	USB 2
Light connection (2)	XLR3 1.2 – 12V
Ext Sync	Word clock, 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
SD9 Dimensions	878mm (w) x 785mm (d) x 262mm (h)
SD9 Weight	36Kg (105Kg with optional flightcase)
SD9 Flightcase (Optional)	1063mm (w) x 1131mm (h) x 472mm (d)
SD9 Power Requirements	90-264 VAC, 47-63Hz Auto Sensing. 208 watts, 232VA
Redundancy	Internal PSU x 2 (optional)
Audio Specifications	
Sample rate	48kHz
Processing delay	2ms Typical (40 stereo channels, stage input through L-R buss to stage output)
Internal processing	Up to 40-bit, floating point

A>D & D>A	24-bit Converter Bit Depth
Frequency response	+/- 0.6dB (20Hz – 20kHz)
THD	<0.05% @ unity gain, 10dB input @ 1kHz
Channel Separation	Better than 90dB (40Hz – 15kHz)
Residual output noise	<90dBu Typical (20Hz - 20kHz)
Microphone Input	Better than -126dB Equivalent Noise
Maximum Output Level	+22dBu
Maximum Input Level	+26dBu

Processing Channel Specifications Input Channel

Name	User-defined / Presets
Channel Selection	Mono / Stereo
Input Routing	Main & Alternate Input
Analogue Gain	-20 to +60dB
Phase	Normal / Reverse
Digital Trim	-40 to +40dB
Delay	<1.3 sec (coarse & fine control)
LPF	20 – 20kHz, 24dB / Oct
HPF	20 – 20kHz, 24dB / Oct
Insert A	(pre eq/dyn) On/Off
Insert B	(post eq/dyn) On/Off
Equalisation	4 band EQ: Parametric or Dynamic Dynamic EQ on up to 4 Flexi channels (low/lowshelf, lower-mid/lowshelf, upper-mid/hishelf, hi/hishelf) 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
Compression	Single or multiband (3-band) Multiband Compression on up to 4 Flexi busses 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

Gate	on/off Threshold; -60 – 0dB Attack; 50us – 100ms Hold; 2ms – 2s Release; 5ms – 5s Range; 0 - 90dB Key; Any source Key listen Freq/width; 20 – 20kHz
EQ/Dyn order	EQ/Dyn or Dyn/EQ
Mute	Channel mute / hard mute
Solo	Solo buss 1 / Solo buss 2 / Both, Auto solo
Channel Safe	Input, eq, dyn, aux, pan, fade/mute, inserts, buss, directs, full safe
Output Routing	Buss, Insert A, Insert B, FX Direct: on/off, pre-mute / pre-fade / post-fade, level +/- 18dB
Fader	100mm Motorised fader -∞ to +10dB

Gate	on/off Threshold; -60 – 0dB Attack; 50us – 100ms Hold; 2ms – 2s Release; 5ms – 5s Range; 0 - 90dB Key; Any source Key listen Freq/width; 20 – 20kHz
EQ/Dyn order	EQ/Dyn or Dyn/EQ
Mute	Channel mute / hard mute
Solo	Solo buss 1 / Solo buss 2 / Both, Auto solo
Channel Safe	Trim, eq, dyn, fade/mute, inserts, outputs, full safe
Output Routing	Outputs, Insert A, Insert B, FX
Fader	100mm Motorised fader -∞ to + 10dB

Processing Channel Specifications Aux / Group / Matrix Output

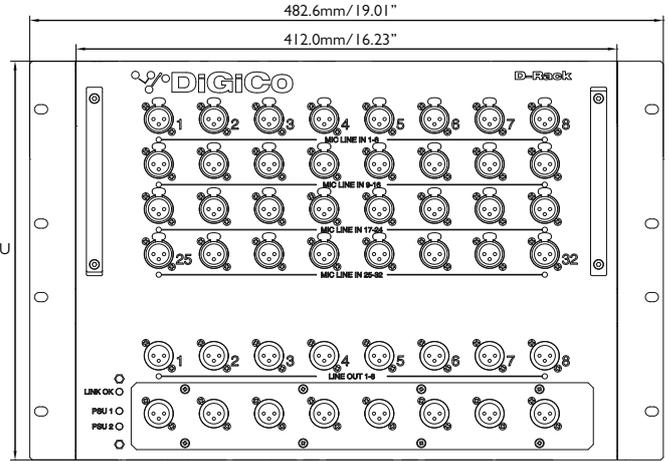
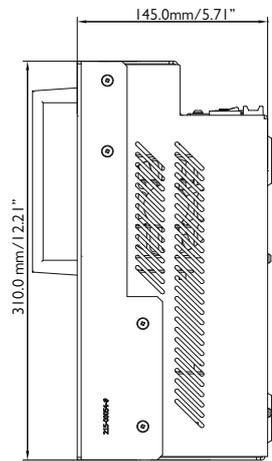
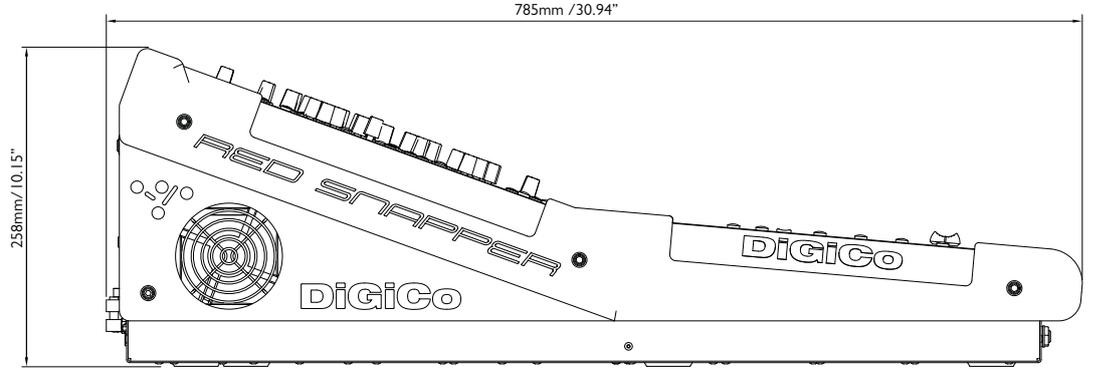
Name	User-defined / Presets
Phase	Normal / Reverse
Digital Trim	-20 to +60dB
Delay	<1.3 Sec (coarse & fine control)
LPF	20 – 20kHz, 24dB / Oct
HPF	20 – 20kHz, 24dB / Oct
Insert A	(pre eq/dyn) On/Off
Insert B	(post eq/dyn) On/Off
Equalisation	4 band EQ: Parametric or Dynamic Dynamic EQ on up to 4 Flexi busses (low/lowshelf, lower-mid/lowshelf, upper- mid/hishelf, hi/hishelf) 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
Compression	Single or multiband (3-band) Multiband Compression on up to 4 Flexi busses 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



DiGiCo SD9

Technical Specifications

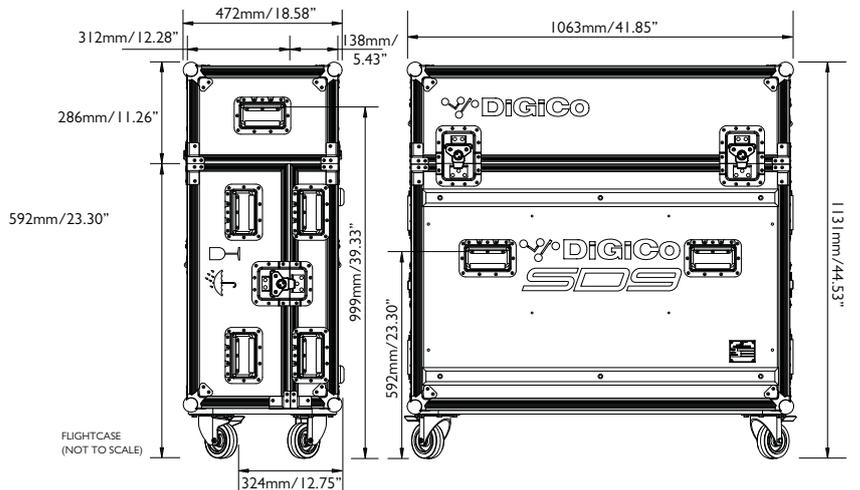
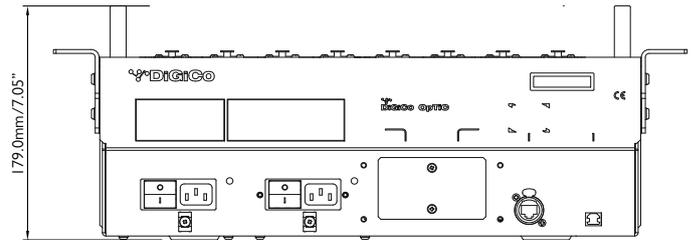
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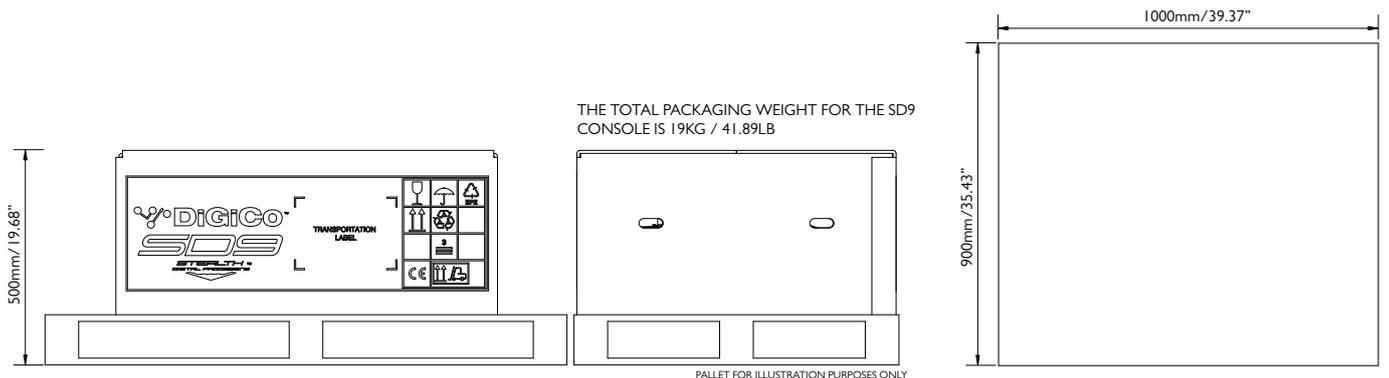
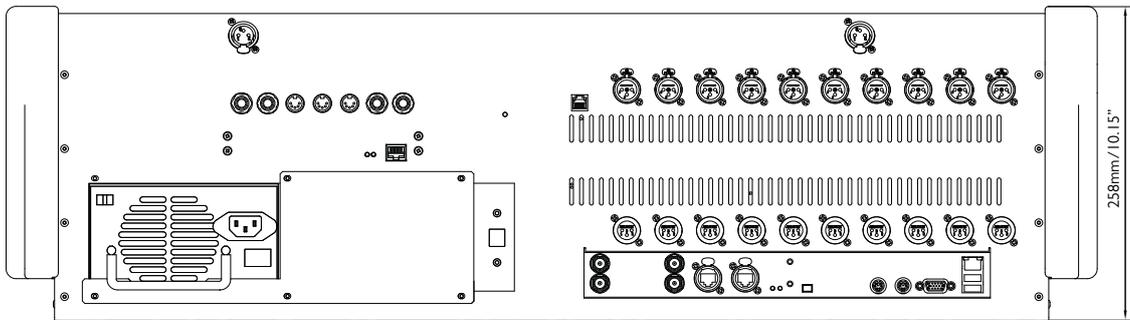
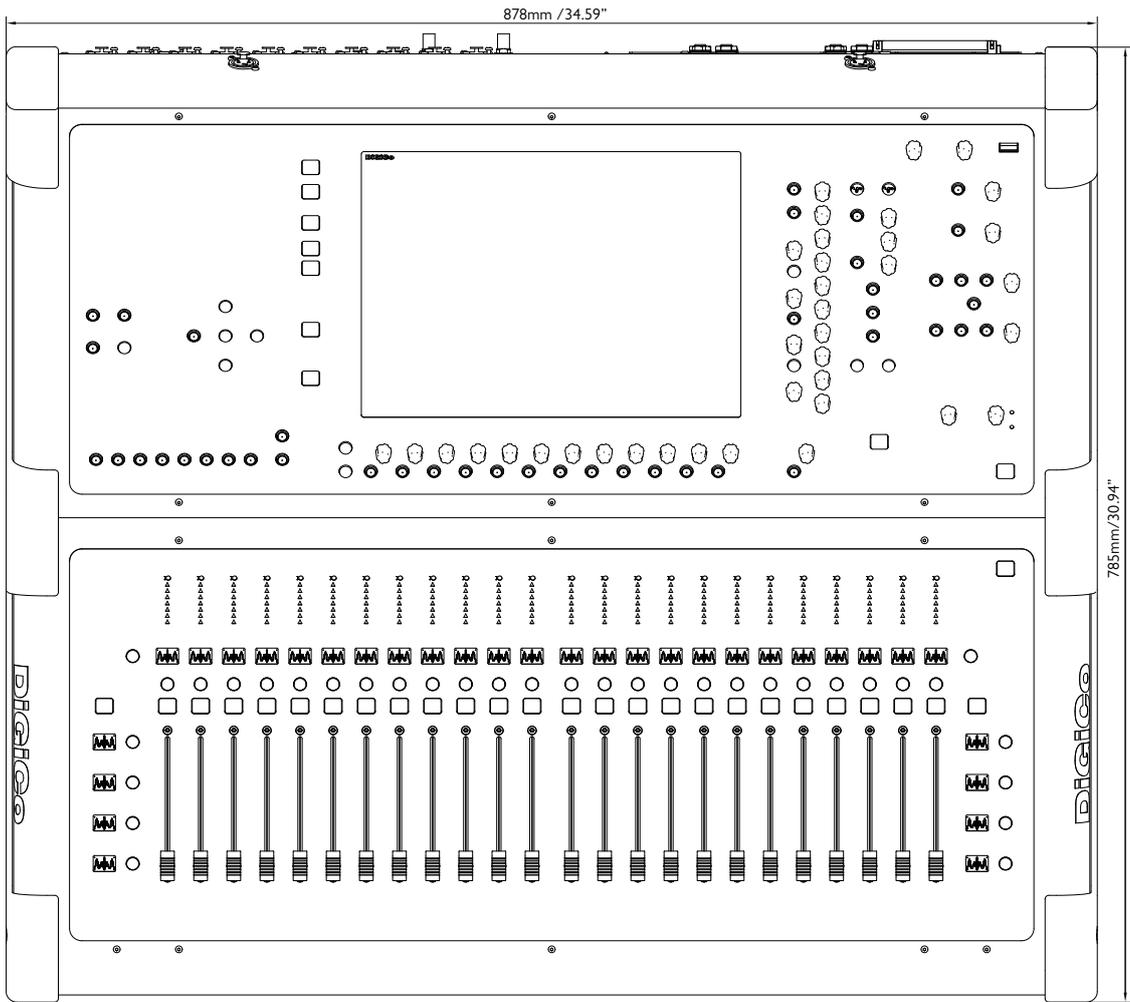
DiGiCo SD9 Notes

- | | |
|-------------------------------------|----------------|
| 1. SD9 WEIGHT | 36Kg/79.37lb |
| 2. SINGLE PSU | 1.6Kg/3.52lb |
| 3. PSU CHASSIS COMPLETE WITH 2 PSUs | 6Kg/13.22lb |
| 4. RACK WEIGHT | 7.4Kg/16.31lb |
| 5. FLIGHT CASE | 79Kg/174.17lb |
| 6. FLIGHT CASE (PACKED) | 115Kg/253.53lb |

For DiGiRack, MiNiRack, MaDiRack, LRB, LBB details and options please go to www.digico.biz



ALL DRAWINGS
(NOT TO SCALE)





STEALTH™ DIGITAL PROCESSING

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.

Several years on, the D Series remains the 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 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. Meet the DiGiCo SD7, the next generation plus one of digital sound engineering and it's (not so) baby brother, the SD8 and now in 2010 the entry level SD9.

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.

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.
- **Enhanced Power**
An SD Series console is effectively 8 x more powerful than a D Series.
- **Slicker Interface**
With 15 inch touch screen LCD TFT technology and user defined RGB back lit LCD scribble strips delivering uninterrupted user feedback.
- **Advanced Software UI**
Building on the fine qualities of almost 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 is clear the DiGiCo range was designed for audio engineers by audio engineers.



Concert Sound

U2 360° Tour



Permanent Install

Wolfrap Arts Centre



Houses of Worship

Eagle Brook Church



Musical Theatre

Mother Courage