DiGiCo
SD-Rack

The next generation of DiGiCo I/O for SD7

To get the most from the best in mixing console technology, you need the finest I/O rack available. So meet the DiGiCo SD Rack, delivering up to 192kHz high resolution analogue I/O converters and multiple digital formats including:- MADI, AES, ADAT and Aviom.

Card labels (left to right):
- 192kHz Mic/Line Input Card
- 192kHz Analogue Output Card
- AES/EBU Output Card
- AES/EBU Input/Output Card with bi-directional sample rate conversion
- Dante Input/Output Card
- AES/EBU Input Card (XLR)
- AES/EBU Input /Output Card (BNC)
- AES-42 Input Card for digital microphones
- ADAT Input/Output Card with optical connections

SD and D-Rack

Expand your SD Ten possibilities

The SD-Rack offers high resolution analogue to digital convertors, incredible flexibility and superior sound quality to complement the power of your SD consoles. Running sample rates up to 96kHz, the SD-Rack can run multiple digital formats simultaneously, including AES/EBU, Dante, AES-42, MADI, ADAT and Aviom.

Based around the same Stealth FPGA technology as the Digital Engines in the SD range itself, the SD-Rack can run the optical loop at 96KHz while providing a down-sampled 48KHz feed to the broadcast truck from one of the MADI output streams, even with Gain Tracking™.

Of course, it all starts with the mic pre-amplifier and here is the beginning of a high quality, sophisticated and sonically superior signal path. With the same FPGA technology onboard as the console itself, the SD range of racks provides industry leading A/D conversion and DiGiCo's famous Gain Tracking™.

Gain Tracking™ gives all consoles +/-40dB of digital gain, which can be set independently on a channel-by-channel basis, ensuring that once the analogue gain is set, each of the maximum of five consoles on the loop can Gain Track their own mixes. Should there be a need to adjust an analogue gain, each Gain Tracked channel will automatically compensate – ensuring your mix stays the same. Not only that, but any of the five consoles on the loop can take control of an analogue gain should clipping occur, safe in the knowledge that everyone else's mix will be unaffected. The SD-Rack features 14 slots providing up to 56 ins and outs and comes with or

HD-SDI Card

Aviom D-16c A-Net Card

> '48V present' LEDs confirm 48V is present per XLR. A further LED indicates signal present and clip at each analogue input, giving you a complete picture of activity on the SD-Rack itself.

> Dual hot swappable power supply units are located at the top of the rack for fast access, so that your connector looms can remain in place near floor level, while the more frequently accessed components are right on top.

> The 56 input / 56 output arrangement, in blocks of eight, allows you to populate the SD-Rack with the I/O cards to suit your application. And the cards themselves are hot-swappable, with the SD-Rack automatically detecting the card that has been plugged in.

> Up to 14 rack IDs can be connected on a single optical loop.

without optics. Running at 48kHz, the two MADI ins and outs provide 56 fully redundant input and output channels via a duplicate MADI aux. If you need to run at 96kHz, you can get a full complement of 56 channels of MADI in and out.

Each interface card is hot swappable and the rack will automatically identify the type of card and configure it. The dual power supplies are also hot swappable and easily accessible at the top of the rack, ensuring you won't have to fight a mass of cables to get them out.

The next rack in the DiGiCo series of high sample rate interfaces is the D-Rack. It comes complete with CAT5 audio as standard, or, with optional optical connection, and can run sample rates up to 96kHz. Additionally, the D-Rack will now also support the Aviom interface and provides 32 inputs and 8 outputs as standard, with the option of eight modular outputs that can either run AES or analogue. This small, flexible rack is designed to sit on the floor, but can just as easily be rack mounted using the optional ears.

SD and D-Rack: It's all about connections.

D-Rack (with optics)
32 Mic in 8 Analogue out (as standard) showing optional 8 AES Mono Stream outputs, 8 Analogue outputs, Aviom Module and 19" Rack Ears

SD-MINI Rack and SD-NANO Rack

Size is not important - it's what it can do

The SD-MINI and SD-NANO Racks are the latest additions to the DiGiCo range of high sample rate racks, complementing the SD and D Racks to make a completely flexible remote rack solution for any situation.

The SD-MINI is a 4U rack and can accept SD input and output cards, be they analogue or digital, including AES/EBU, Dante, AES-42, ADAT, HD-SDI and Aviom. Running purely digital, the MINI can run up to 32 ins and outs. Or if it's all analogue, you can have a maximum of 32 ins or outs or any combination in banks of eight (8 in and 24 out for example). The MINI has MADI connectivity as standard, with optical as an option .

There is also the ability to run the rack at different sample rates and to convert the Gain Tracking ™ split outputs to other sample rates for compatibly with external devices.

At the smallest end of the spectrum is the SD-NANO Rack. This 2U stage box works almost exactly the same way as the MINI, except it is half the size and therefore can only handle half the amount of inputs and outputs. The NANO is only available with optical connectivity.

So, when you need smaller racks distributed around a stage or building, the MINI and the NANO are there to provide you with

flexible, affordable digital I/O, totally compatible and controllable with the full range of DiGiCo consoles and the larger SD and D Racks.

With up to a total of 14 racks on one optical loop, or 28 on a dual loop system, it is easy to see the potential for large corporate events, installations or just expansive stages. This, coupled with the ability for any of the five consoles that can sit on one optical loop being able to address all inputs and individually address output slots on any rack, gives any engineer, or system designer the flexibility and power they need to make any complex situation easy and intuitive.

SD-MINI and SD-NANO Racks - When size isn't everything.

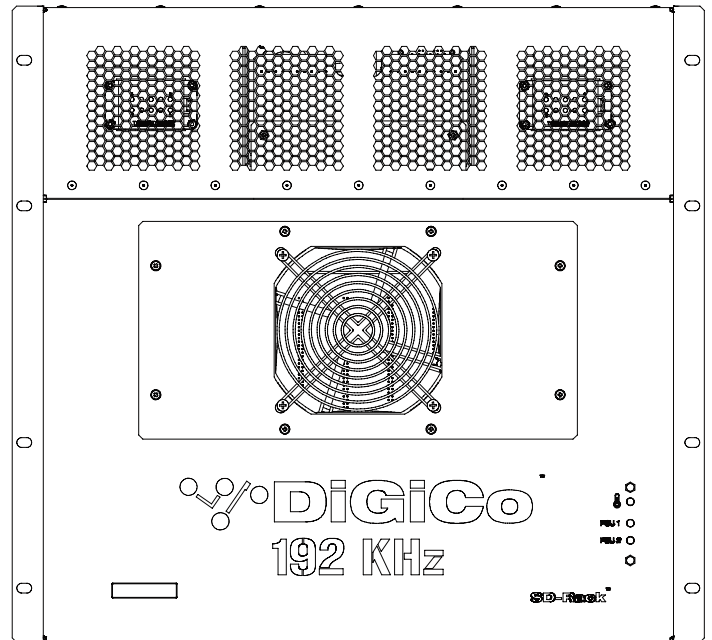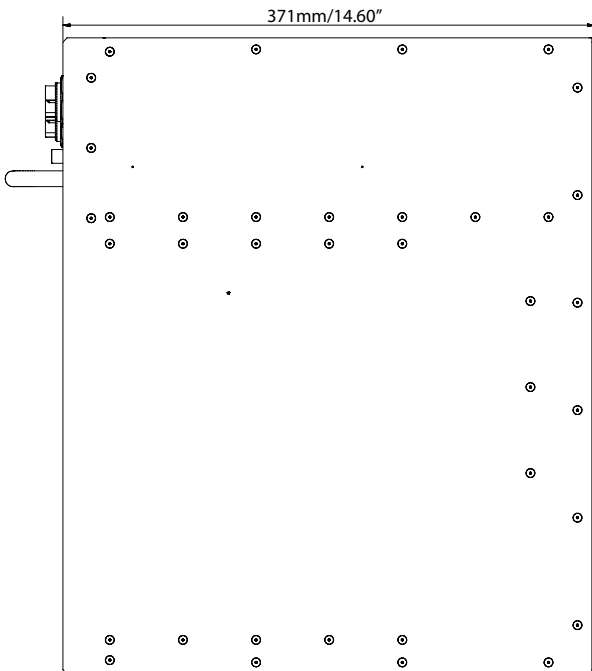NANO Rack showing 8 Mic in and 8 Line out
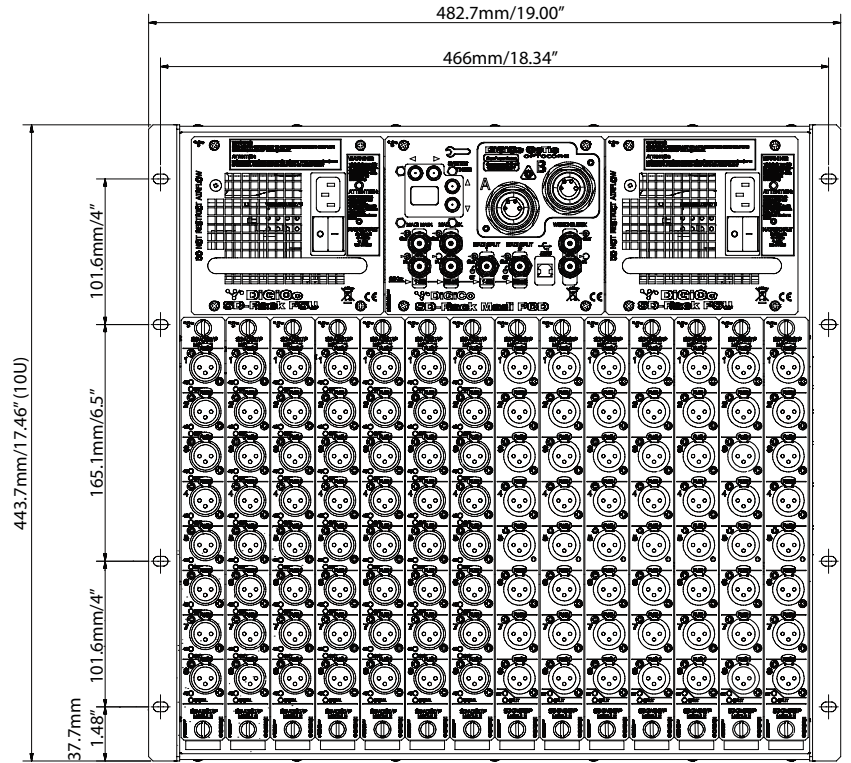

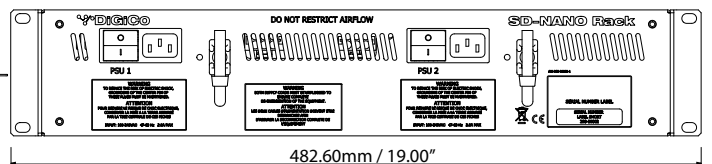NANO Rack showing 16 AES streams in and out
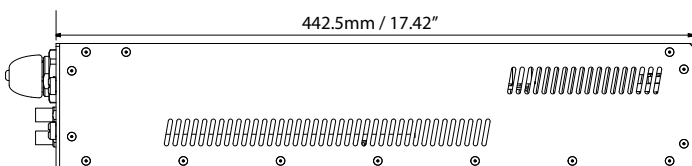

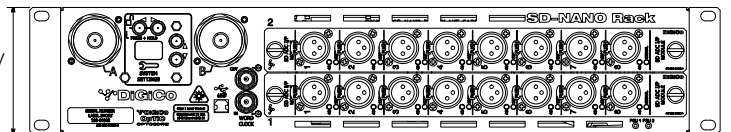
NANO Rack rear showing dual power supplies
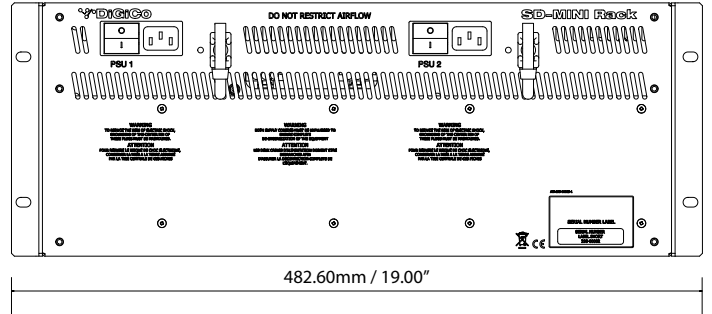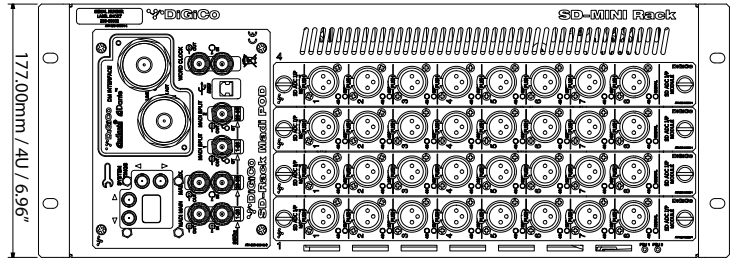

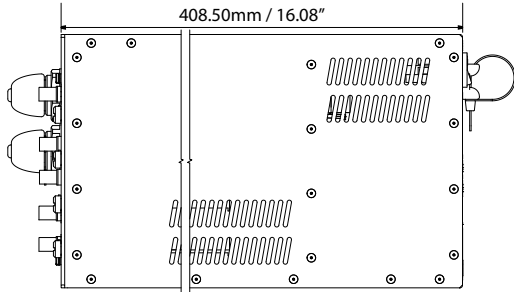MINI Rack rear showing dual power supplies
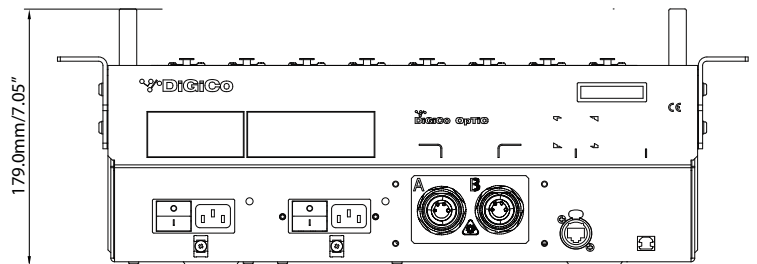
SD-Rack Line Drawings

SD-NANO Rack Line Drawings

SD-MINI Rack Line Drawings

408.50mm / 16.08"

177.00mm / 4U / 6.96"

482.60mm / 19.00"

D-Rack Line Drawings

145.0mm/5.71"

310.0 mm/12.21"

482.6mm/19.00"

412.0mm/16.23"

7U

MIC LINE IN 1-8
MIC LINE IN 9-16
MIC LINE IN 17-24
MIC LINE IN 25-32

LINE OUT 1-8

LINK OK
PSU 1
PSU 2

179.0mm/7.05"
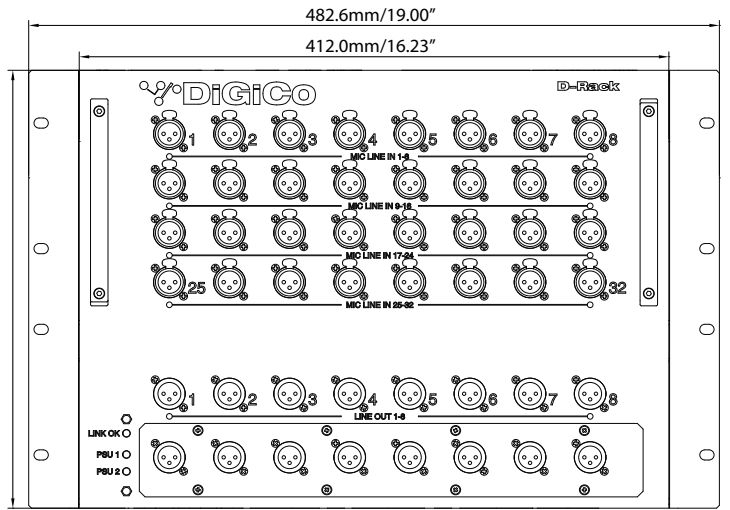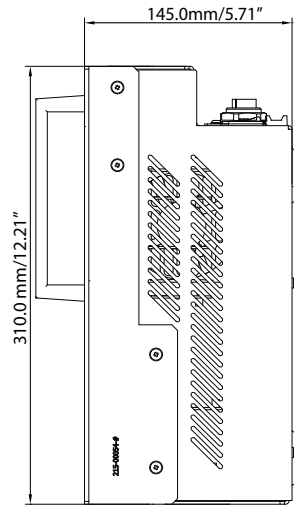
Company Profile

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 a 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 15 inch 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.