

# Technical Data

## Frequency Response

Mic input to Line output ..... +0/-1dB, 20Hz – 20kHz  
Stereo input to master output ..... +0.5/-0.5dB, 20Hz – 20kHz

## T.H.D. & Noise (10Hz - 22kHz)

Mic In (min gain) to Bus output ..... 0.006% @ 1kHz  
Mic In (max gain) to Bus output ..... 0.008% @ 1kHz  
Stereo input to master output ..... 0.005% @ 1kHz

## Mic Input E.I.N.

22Hz-22kHz bandwidth, unweighted ..... <-126dBu (150 Ohm source)

## Residual Noise

Master output; no inputs routed, Mix fader @0dB ..... <-88dBu

## CMRR

..... 80dB @ 1kHz Mic input

## Sampling Frequency

..... 48kHz

## Convertor Resolution

..... 24 bit

## Latency

Mic Input to Bus output ..... < 1ms @48kHz

## DSP Resolution

..... 40-bit floating point

## Internal Clock

Accuracy ..... < +/- 50ppm

Jitter ..... < +/- 5ns

## Input & Output Levels

Mic Inputs ..... +23dBu max

Stereo Inputs / Returns ..... +22dBu max

Bus Outputs ..... +22dBu max

Nominal Operating Level ..... 0dBu (-22dBFS)

## Input & Output Impedances

Mic Inputs ..... 2 kOhms

All other analogue Inputs ..... >10 kOhms

Line Outputs ..... <75 Ohms

**Oscillator** ..... 20Hz to 20kHz Sine/Pink Noise, variable level

## Filters

Channel HP Filter ..... 22Hz-1kHz, 18dB per octave

## EQ (Inputs and Bus Outputs)

HF ..... 22Hz-20kHz, +/-15dB, Q=0.3-6.0, bell or shelving

Hi-Mid ..... 22Hz-20kHz, +/-15dB, Q=0.3-6.0

Lo-Mid ..... 22Hz-20kHz, +/-15dB, Q=0.3-6.0

LF ..... 22Hz-20kHz, +/-15dB, Q=0.3-6.0, bell or shelving

## Metering

..... 7x 8 segment meters for selected channel/bus, masters & monitors

..... Each fader strip offers 4 segment level plus gain reduction & Gate Closed status

**Mains Voltage Operating Range** ..... 90-264V, 47-63Hz, autoranging

**Mains Power Consumption** ..... 200W

## Temperature/Humidity Range

Operating Temperature Range ..... 0°C – 45°C (32°F – 113°F)

Relative Humidity ..... 0% – 90%, non-condensing Ta=40°C (104°F)

Storage Temperature Range ..... -20°C – 60°C (-4°F – 140°F)

## Dimensions

Si Performer 1 (H x W x D) ..... 193mm x483mm x 522mm/7.6" x19" x 20.55"

Si Performer 2 (H x W x D) ..... 170mm x 730mm x 536mm/6.7" x 28.75" x 21.2"

Si Performer 3 (H x W x D) ..... 170mm x 940mm x 536mm/6.7" x 37" x 21.2"

## Weights

Si Performer 1 ..... 15kg/33.1lbs net

Si Performer 2 ..... 17kg/37lbs net

Si Performer 3 ..... 21.5kg/47.5lbs net

## Optional Accessories

The optional accessories kit includes a magnetic notes pad, wipe-off marker, lanyard, console lamp(s) and dust cover.



## Flight Cases

Rack Cases are available for all three frame sizes in the Si Performer range.



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Part No: 5023065-01  
Issue 0514

**Soundcraft**  
by **HARMAN**

Soundcraft®  
**Si PERFORMER**  
DIGITAL LIVE SOUND CONSOLE WITH DMX



# The power to perform

Combining legendary Soundcraft sound quality with a massive mix capacity and intuitive operation, Si Performer delivers 448 rack units of DSP in a range of performance-focussed compact consoles.

Able to replace a plethora of gear, Si Performer includes sophisticated 4-band fully parametric EQ, full dynamics processing, a comprehensive range of output options, DMX lighting control, totally flexible routing and, as with all Soundcraft consoles, an unmatched range of networking options.

The possibilities are endless. From theatre productions to gigging bands and music venues, houses of worship to corporate events and installed AV systems, Si Performer delivers a feature-packed compact control surface, easily integrated into a larger system - or powerful enough to allow a single operator to run an entire production from one console.

## 448 Rack Units of big-name DSP - built in



Si Performer isn't just packed with DSP power. It's packed with DSP power from industry leading names in FX, dynamics, EQ and digital audio.

<b>111</b> PEQs	<b>111</b> COMPRESSORS	<b>80</b> NOISE GATES	<b>111</b> TIME DELAYS	<b>31</b> GEQs	<b>4</b> MONO-STEREO FX PROCESSORS
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## The power of 3

The feature set is identical - just pick the fader and local mic input count you need.

The Rack mountable Si Performer 1 gives you 16 of each, while the Si Performer 2 and 3 deliver 24 and 32 faders and mic preamps respectively.

<b>80</b> CHANNELS TO MIX	<b>20</b> AUX BUSSES	<b>4</b> FX BUSSES	<b>8</b> MATRIX BUSSES	<b>FADER GLOW™</b>	<b>4</b> BAND FULLY PARAMETRIC EQ	ASSIGNABLE FADER LAYERS	SNAPSHOT AUTOMATION	COPY & PASTE	<b>D.O.G.S</b> DIRECT OUTPUT GAIN STABILISATION	<b>4</b> STEREO <b>lexicon</b> EFFECTS	Soundcraft <b>visi</b> REMOTE REMOTE CONTROL APP	<b>31</b> BSS GRAPHIC EQs	<b>8</b> VCA GROUPS	<b>8</b> MUTE GROUPS	LIGHTING CONTROL	<b>LCR</b> PANNING
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# Packed with possibilities

Experience a compact console designed without compromise, so you can run your production the way you want to.



## Beyond analogue control

Combining One-Knob-One-Function control with Soundcraft's unique FaderGlow™ feature and tOTEM system for sends on faders, Soundcraft combines analogue workflow with digital flexibility. FaderGlow illuminates the fader track in different colours to provide at-a-glance status information on precisely what the fader is controlling— aux sends, FX sends or even the graphic EQ that's available on every bus.

## Any fader. Anywhere.

Unlock powerful new workflows with freely assignable faders that allow inputs, busses and DMX lighting controls to be reassigned anywhere on any fader layer. Now an engineer can put inputs and returns where he or she will most want to access them, creating the perfect mix surface for the show.



## Touchscreen control... when you need it

The clear, compact colour touchscreen display features everything you need for easy patching, fader assignment, show set-up, FX and security settings. But with the Si Performer's One-Knob-One-Function layout, you won't find yourself needing the touchscreen often.



## Networking options

2 ViSi Connect™ option card slots with a total of 128x96 input/output paths for expanded digital I/O including the MultiDigital Card (Firewire/USB/ADAT), BSS Digital Audio Bus (BLU Link), Dante™, CAT5 or optical MADI, AVIOM™, CobraNet™ and others. Find out more on the next page.

## 80 inputs to mix

Expanding the local I/O via networking and stageboxes provides a total of 80 inputs to mix. Each input channel has dedicated processing for high pass filter, input delay, gate, compressor and parametric EQ. Keeping you in control are 8 VCA busses, 8 mute groups, FaderGlow and colour backlit name displays on every channel so you are never lost.



## Mix power - in the palm of your hands

The mix power of Si Performer is accessible from anywhere in the venue, via the Soundcraft ViSi remote iPad® app. Mix FOH from anywhere in the venue, mix monitors from the stage, or allow musicians to set their own monitor mix from multiple iPad® devices.

iPad is a registered trademark of Apple Inc.



# Plays nicely with others

With two ViSi Connect expansion slots available, Si Performer unlocks a world of I/O possibilities providing access to Stageboxes, personal monitor systems, audio networks and DAWs for live recording.



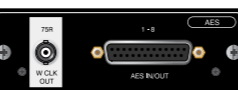
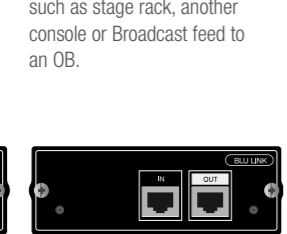



## Example multi-console systems

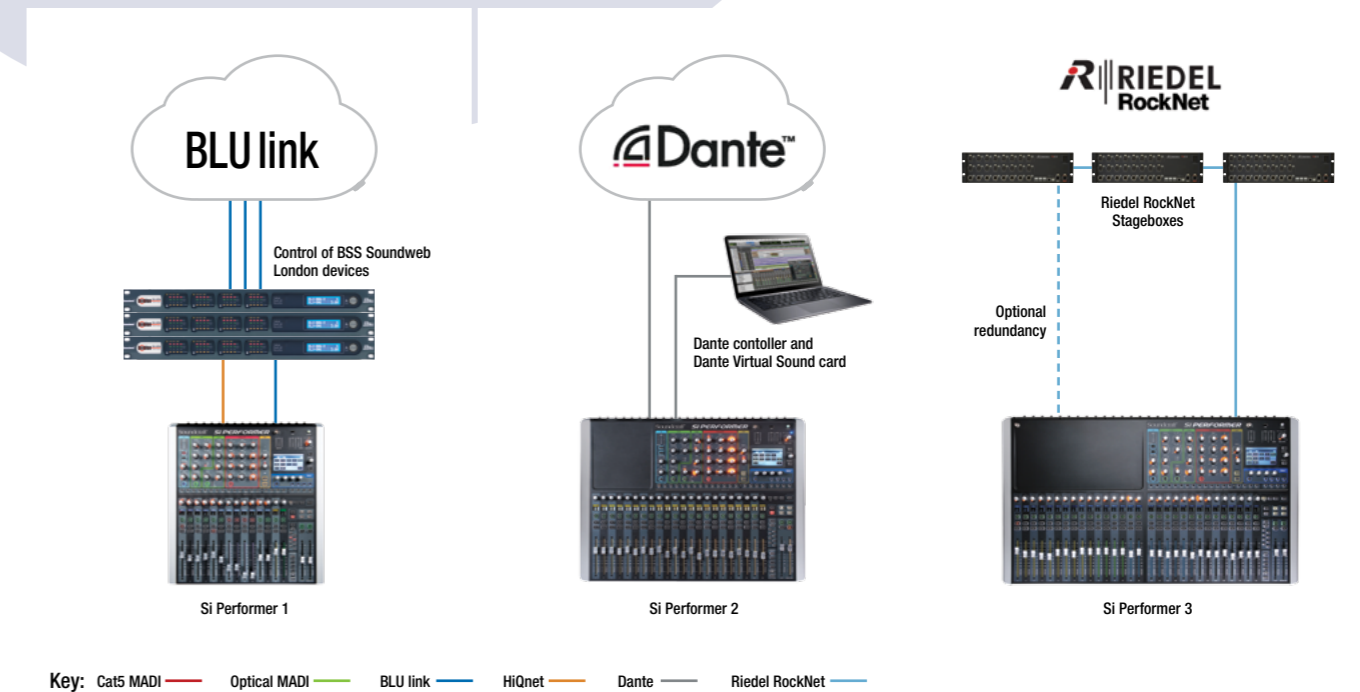


Key: Cat5 MADI — Optical MADI

## Card Options

 <p><b>Dual Cat5 MADI</b></p> <p>The Dual Cat5 MADI card offers the same features as the optical MADI card via Cat5 connectivity.</p>	 <p><b>Optical MADI</b></p> <p>The MADI I/O card can establish a 64-channel MADI input and output link to a remote device such as stage rack, another console or Broadcast feed to an OB.</p>	 <p><b>Multi Digital Card</b></p> <p>The Multi Digital card provides 32 output channels (fed from the console channel direct outputs or other feeds) and 32 input channels for playback/monitoring from a recording system, such as a PC or MAC based DAW.</p>	 <p><b>AES/EBU</b></p> <p>An XLR-based card with 2 pairs of AES/EBU inputs and outputs (4-in/4-out).</p>	 <p><b>AES/EBU D-Type</b></p> <p>A D-Type connector based AES/EBU input/output card with 4 pairs of inputs outputs (8-in/8-out). A separate BNC connector for wordclock output is provided.</p>
 <p><b>Dante™</b></p> <p>The Dante card allows Si consoles to integrate with other hardware using the Dante networking protocol.</p> <p>Dante also allows for 64 channels of recording with Dante Virtual Soundcard.</p>	 <p><b>BLU link</b></p> <p>For connection to BSS London Audio Network systems and PMC personal monitoring systems.</p>	 <p><b>CobraNet™</b></p> <p>This card allows sending and receiving of up to 32 audio channels to/from a CobraNet® network. DIP switches on the card allow setting the number of input or output channels seen by the console.</p>	 <p><b>Aviom A-Net®</b></p> <p>This card allows the desk to digitally feed an Aviom A-Net® Pro-16 chain. With this standard, 16 mono signals can be fed to any number of Aviom personal mixers (such as the A-16 II), connected in a daisy chain configuration.</p>	 <p><b>RockNet®</b></p> <p>The RockNet card fits into any Soundcraft Si Console's expansion slot and gives access to 64 input and 64 output channels.</p>

## Example network connections



Key: Cat5 MADI — Optical MADI — BLU link — HiQnet — Dante — Riedel RockNet

Soundcraft is committed to the continued development of the ViSi Connect expansion card range, developing new cards as new network protocols become available.

# The ultimate one man show

From houses of worship to music venues, wherever a single operator needs to run the whole show, Si Performer empowers the user with a single surface for sophisticated digital audio mixing, networking and lighting control.

## Mixing

With a powerful, intuitive control surface, Si Performer sits at the heart of the system, making it possible for a single-operator to run the whole show from a single surface. With One-Knob-One-function control, Soundcraft's FaderGlow feature, assignable fader layers and the tOTEM system for sends on faders, operators can build powerful configurations based around their unique workflows, unconstrained by the limitations of traditional analogue mixing consoles.

## Monitoring

The Si Performer makes mixing to monitors simple thanks to tOTEM™ (the one-touch easy mixing system). tOTEM™ provides instant access to your monitor mix busses by putting monitor sends on the motorised faders. Mixing to a monitor is as simple as pushing up a fader. For FOH and Monitor applications, the unique D.O.G.S (Dynamic Output Gain Stabilisation) system compensates for any gain adjustment when two consoles are sharing the same source, maintaining original system levels between mic in and direct out. And ViSi Connect expansion cards make it easy to connect to personal monitoring systems such as dbx's PMC 16. It all makes for a more powerful and easy monitor desk solution.

## Recording

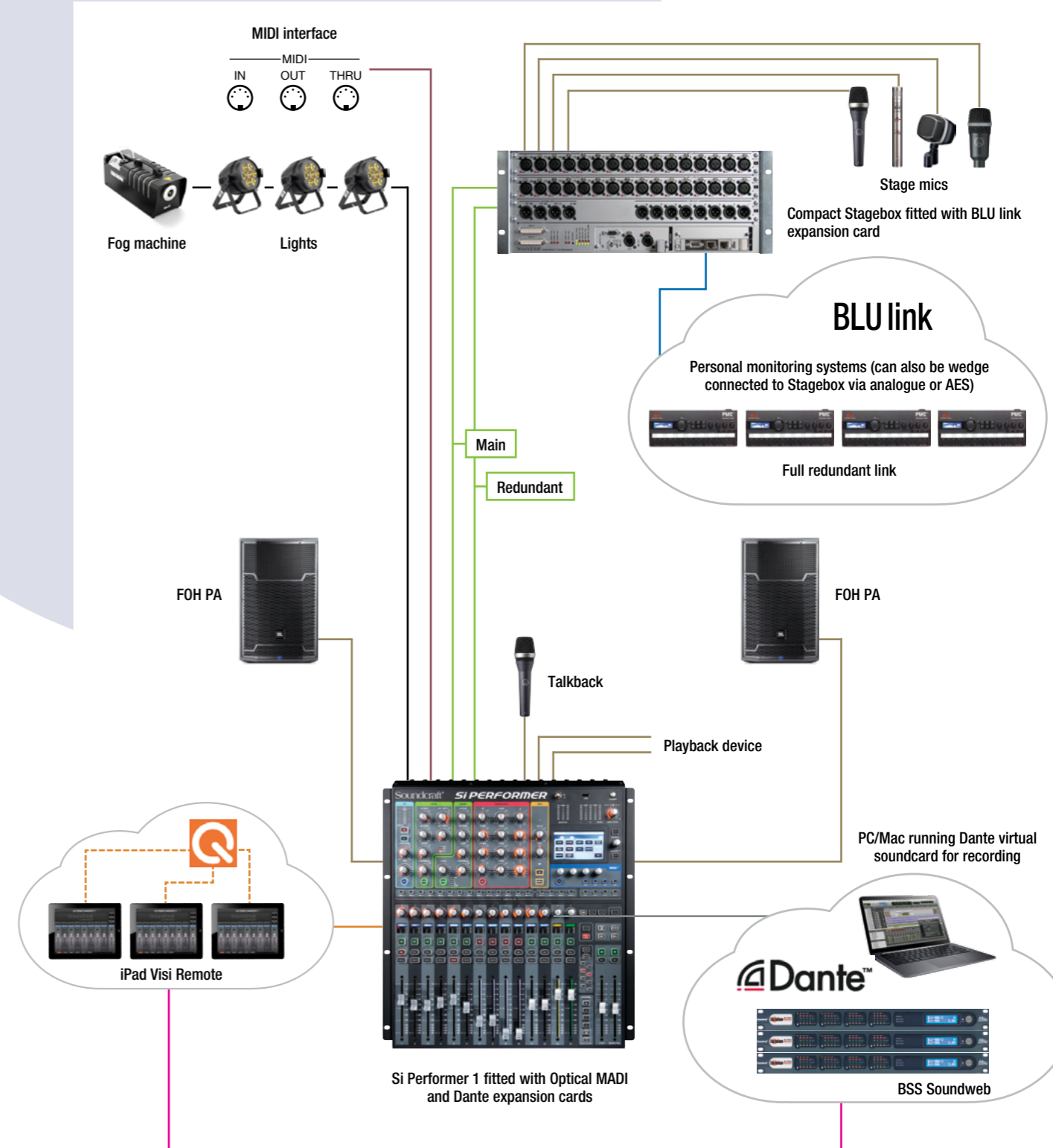
Just add a Multi Digital card from the ViSi Connect range and you're ready to make multitrack recordings direct to any digital audio workstation with 32 inputs and 32 outputs plus 8 channels of ADAT in/out.

## Networking

Si Performer integrates seamlessly at the heart of any sophisticated audio installation, with a full range of ViSi Connect expansion cards available for the most popular network protocols. Easily connect to and control a wide range of additional gear, from wireless mic racks to personal monitoring systems.

## Lighting Control

Empowering the console with a DMX interface, the Soundcraft Si Performer is able to utilize the power of motorised faders, Soundcraft FaderGlow™ and a console automation system to provide a flexible automated lighting controller ideal for schools, churches, touring theatre companies and conference productions. Si Performer's DMX functions are provided as 4 presets on the ALT fader banks, and each preset bank has a master control. Using faders, the Si Performer can send DMX messages to up to 30 DMX addresses (22 on Performer 2), providing fader control over intensity or other functions as the external device allows.



# Connectivity & Control

## Connectivity

- 16/24/32 recallable GB mic inputs with locking connectors and phantom power indicators
- 16 XLR analogue line outputs
- 8 analogue line inputs
- Single universe 5-pin DMX output
- AES In and out
- Word Clock
- MIDI In and Out
- HiQnet Ethernet port for HiQnet system integration and ViSi Remote System
- 2 ViSi Connect expansion slots offering a total of 128 input and 96 output paths

## Input Section

- 8 LED Input Meter
- 48v Phantom power switch
- Polarity reverse switch
- Input Gain/Trim Adjustment
- Variable High Pass Filter
- HPF engage switch

## Gate

- Dedicated encoders for Attack, Release, Depth, Threshold and Sidechain Filters
- Gate open, hold and close status LED indicators
- Gate engage switch

## Compression

- Dedicated encoders for Attack, Release, Gain, threshold and Ratio controls
- Compressor on every bus
- 5 Segment LED gain reduction indicator
- Compressor engage switch

## 4 Band Parametric EQ

- 4 Fully parametric EQ bands with switchable Bell/Shelf LF and HF filters
- Legendary British EQ characteristics
- EQ engage switch

## Output Section

- Variable time delay per channel or bus (0-500ms), displayed as time and distance
- Pan control
- LCR pan indicator
- LR switch for assigning/un-assigning channels and busses to the L/R output
- Mono switch for routing to mono output (centre speaker, sub bass channel, etc.)



## Lexicon Effects Section

- 4 integral Lexicon stereo effects engines
- 29 effect presets per engine with hall, plate and room reverbs, plus delays, modulations and pitch
- Up to 12 parameters for each preset accessed by touchscreen dialogue and 4 surface encoders
- Dedicated Tap tempo switches

## The One Touch Easy Mixing Keys

- Dedicated tOTEM Keys for all 14 mix busses, 4 Matrix busses and 4 FX engines
- Mix to any of the mix busses by simply tapping a tOTEM key and pushing up the faders
- FaderGlow™ for visual colour feedback on what the faders are currently mixing: Yellow- Pre-fader Bus, Green- Post-Fader Bus, Blue- FX bus, Orange- Matrices

## Global Mode Encoders and Channel Meters

- Instant access to important settings such as input gain/trim, High pass filter settings and Pan controls - adjust these features globally across all channels using dedicated global encoders
- LCD Channel Displays above each fader for channel naming combined with 4 segment LED Input meter, 3 segment LED Gain reduction meter and Gate closed indicator across all channels on the surface

## Surface Controls & Global Metering

- FaderGlow™ illuminates the fader track for at-a-glance display of current fader function: White- Linked channels, Pink- Stereo Inputs, Red- Graphic EQ
- 8 VCAs and 8 Mute groups
- Snapshot control – 1000 cues can be stored and recalled from dedicated cue control buttons
- USB port for saving/loading shows and snapshots with USB memory sticks
- Colour touchscreen for patching, routing, show set-up and security settings
- 8 LED input and output meters (monitor L/R, master L/R, mono)
- Headphone output
- 12V lamp connector