Powerful. Intuitive.
Flexible. Affordable.

Drawing on the heritage of Soundcraft's acclaimed Si Series digital live sound mixers, the new Si Compact packs powerful digital mixing facilities along with stunning Lexicon® effects into a trio of small footprint consoles available in 16, 24 or 32 mic/line input formats, with 4 stereo returns. And for once, compact doesn't mean compromise. No layering of the audio controls makes operation fast and simple, and with 4 separate FX processors with dedicated FX busses in addition to the main mixes, and Graphic EQ for every bus, you'll never find yourself wishing you had more processing power.

Legendary Soundcraft audio quality comes courtesy of EMMA Lite, the same DSP platform that has helped propel the Si Series to industry standard status. Features like dedicated FX busses, 16 line outputs plus AES, an option card slot for MADI or other connectivity, a Global Mode for instant access to Pan, Gain and Filters, a colour touchscreen interface and FaderGlow™ equip Si Compact for a range of live sound mixing applications including bands, theatres and houses of worship.

Key Features
• Frames with 16, 24 or 32 mono inputs and 4 stereo channels to mix
• 14 mono aux busses
• 4 FX busses
• 4 Matrix busses
• LRC Mix busses
• 4 Stereo Lexicon Effects engines
• 4 Mute Groups
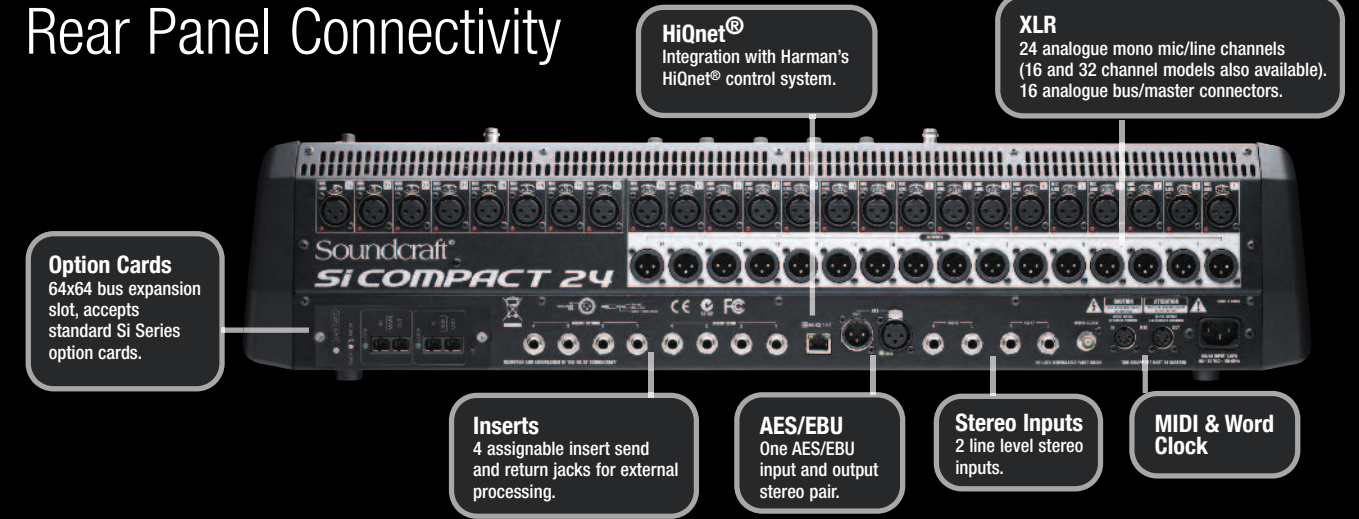• 4 assignable insert send/returns (24 and 32 models)
• Harman HiQnet integration

Soundcraft®
Si COMPACT
DIGITAL LIVE SOUND CONSOLE

Technical Specifications

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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	+26dBu max
Stereo Inputs / Returns	+22dBu max
Bus Outputs	+22dBu max
Nominal Operating Level	0dBu (-22dBFS)

Input & Output Impedances
Mic Inputs	6.8 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	800Hz-20kHz, +/-15dB shelving
Hi-Mid	22Hz-20kHz, +/-15dB, Q=0.3-6.0
Lo-Mid	22Hz-20kHz, +/-15dB, Q=0.3-6.0
LF	22Hz-500Hz, +/-15dB 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)

Rear Panel Connectivity

HiQnet®
Integration with Harman's HiQnet® control system.

XLR
24 analogue mono mic/line channels (16 and 32 channel models also available). 16 analogue bus/master connectors.

Option Cards
64x64 bus expansion slot, accepts standard Si Series option cards.

Inserts
4 assignable insert send and return jacks for external processing.

AES/EBU
One AES/EBU input and output stereo pair.

Stereo Inputs
2 line level stereo inputs.

MIDI & Word Clock

Soundcraft
by HARMAN

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Input Section
The Input section has 8-segment stereo metering controls for phantom power and polarity reverse, gain/trim adjustment and frequency setting for the high pass filter.

Dynamics Section
The Dynamics section has controls for the gate and compressor which feature on every channel, with compressors also available on all busses providing full control over side-chain filters, thresholds, attack, release, gain, depth and ratio.

EQ Section
A four-band EQ section is provided on every channel and on every bus output, with two swept mid bands, and shelving HF and LF sections.

Out Section
The Out section contains a Delay control (again for all inputs and outputs), and a Pan control, plus Stereo and Mono mix assignment.

Accessories Tray
iPod touch® not included.
(Trademark of Apple Inc.)

Bus Switches
Provides instant access to any bus mix, and sets up the console for mixing straight to the chosen bus. See TOTEM section (right).

TOTEM™
The one-touch easy mix
Si Compact features TOTEM™, a super-easy way to get mixing. Depending on which busses you have selected, (for example FX bus 1) one touch of a TOTEM button will:

• Clear all current Solos
• Put input faders into sends on faders mode, lighting fader glow accordingly
• Place the Bus master or FX return onto the MONO/Sel fader
• Solo the appropriate bus master or FX Return channel
• Assign the central control section to the bus output or FX retrun

USB
Desk settings and snapshots can be stored for later recall onto a USB memory stick through this USB port.

Colour Touch Screen
Used primarily for setup, show control and naming, the colour touch screen is secondary to mixing. Here, you can assign inserts, patch channels and setup monitoring, etc.

Now everyone gets to share in the success of Soundcraft digital live sound mixing

Lexicon® FX
Four integral Lexicon stereo effects engines provide more than 20 preset effects, which are controlled via rotary encoders and the touch screen. These effects may be assigned to any bus or input channel, and the effects returns are independent of the channel inputs. Unlike some other consoles in this class, users may adjust parameters of the FX and store their own presets for later use.

Encoders
Each channel has a multifunction rotary encoder, which acts in one of the following modes when engaged by the corresponding master switch:
Gain: controls channel gain.
Fill: adjusts the frequency of the high-pass filter
Pan: adjusts the signal in the stereo mix. When sending channels to a stereo bus, this acts as a Pan to Bus control.

Meters
Metering provided for every active channel or bus, showing level, gain reduction and gate closed.

Snapshot Control
The Si Compact incorporates a simple cue/snapshot system. Over 1000 cues may be stored and recalled through a simple combination of buttons and colour touch screen.

On
The channel On key turns on the channel so that it becomes active. The switch is lit red if the channel is muted by a mute group or similar.

Select
Touch Select to bring a channel to the central control section for adjustment of gains, EQ, dynamics, pan and delay.

Mute Groups
Four mute groups allow you to control groups of channels as one, with a single press of the mute master.

GRAHAM BLYTH FRSA

GB30 Mic Preamps
The mic preamps on the Si Compact follow in the Soundcraft tradition of exemplary performance, winning worldwide acclaim for the transparency, high headroom and overload characteristics. These preamps use the well-established GB30 topology which has been used on countless Soundcraft products.

EMMA Lite
At the heart of the Si Compact is the EMMA Lite processor/DSP engine, a derivative of that used on the successful Si Series. You'll never run out of DSP, even if you have all the FX running, graphic EQs on all outputs, delays on inputs and dynamics on inputs and outputs.

FaderGlow™
Developed for Soundcraft's acclaimed Vi Series consoles, FaderGlow™ illuminates the fader according to the operating mode it is in. Amber shows pre-fade Aux sends, green for post-fade sends, blue for FX sends, red for GEQ, white for stereo channels, etc. The Follow (sends on faders) method allows you to control send levels directly via the faders, such as Aux sends, Matrix sends, FX sends.

GEQ
Selecting GEQ brings the graphic equaliser onto the input faders, each fader controlling one frequency. The natural feel of a centre-detent is reproduced nicely by the Si Compact. GEQ LO selects the lower half of the EQ from 31Hz to 630Hz, GEQ HI the upper half from 800Hz to 16kHz, each fader being labelled and scaled accordingly. GEQ is available for every bus output.

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