

Soundcraft® **Si COMPACT** DIGITAL LIVE SOUND CONSOLE

Soundcraft, Harman International Industries Ltd., Cranborne House, Cranborne Road, Potters Bar, Hertfordshire EN6 3JN, UK
T: +44 (0)1707 665000 F: +44 (0)1707 660742 E: soundcraft@harman.com

Soundcraft USA, 8500 Balboa Boulevard, Northridge, CA 91329, USA
T: +1-818-920-3212 F: +1-818-920-3208 E: soundcraft-usa@harman.com

www.soundcraft.com

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 Soundcraft®
by HARMAN



Up to 40 inputs to mix. 176 rack units of processing power. And we still call it Compact.

The Si Compact packs powerful digital mixing facilities along with stunning Lexicon® effects into a trio of affordable, 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. Audio controls without layers make 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, FaderGlow™ and the Soundcraft® ViSi remote control iPad® app equip Si Compact for a range of live sound mixing applications including bands, theatres and houses of worship.



Soundcraft®
ViSi
 REMOTE

Introducing powerful new V2 features

And the great news is that Si Compact just keeps getting better, with new V2 software unleashing 23 major new features, updates and enhancements, including additional DSP channels giving all consoles the ability to combine 40 inputs to mix.

V2 highlights include user configurable fader layers, allowing input channels to be reassigned anywhere on either input layer and any bus master to be reassigned to either master layer. Now an engineer can put the inputs and returns where he or she will most want to access them.

Another important function in V2 is the D.O.G.S (Direct Output Gain Stabilisation) system, which compensates for any gain adjustment when two consoles are sharing the same source such as a mic on stage, maintaining original system gain between mic in and direct out, ensuring that the mix balance on the second (slave) console is not destroyed.

Selective Copy & Paste allows all or part of a selected channel or bus to be copied and pasted elsewhere. This basic functionality is augmented with the ability to copy and paste individual bus or matrix mixes and copy/paste FX presets between Lexicon processors. Enhanced MIDI control allows snapshots to be recalled from any external devices capable of sending simple program change messages.

And a new security mode prevents unauthorised access to key functions. In addition to 'total lockdown', security can be tailored for different 'operator access' levels – for example locking out house EQ and processing for guest engineers whilst, allowing access for in-house operators.



Available in 16 channel (19"), 24 and 32 channel versions



14
 MONO MIX BUSSSES

4
 FX BUSSSES

4
 MATRIX BUSSSES

UP TO 40
 CHANNELS TO MIX

COPY AND PASTE

Assignable FADER LAYERS

D.O.G.S

lexicon 4 LEXICON FX

4 25 BSS GRAPHIC EQs

4 25 BSS GRAPHIC EQs

Sometimes, great power comes in small packages.

The Si Compact is all about delivering maximum flexibility with legendary Soundcraft sound quality and a full complement of professional digital mixing features – all in a small footprint, and all at an affordable price.

And with the Si Compact, all that power and flexibility is accessible within an intuitive, ‘analogue-style’ user experience that always puts you in control.

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 or trim.
 Filt: 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.

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

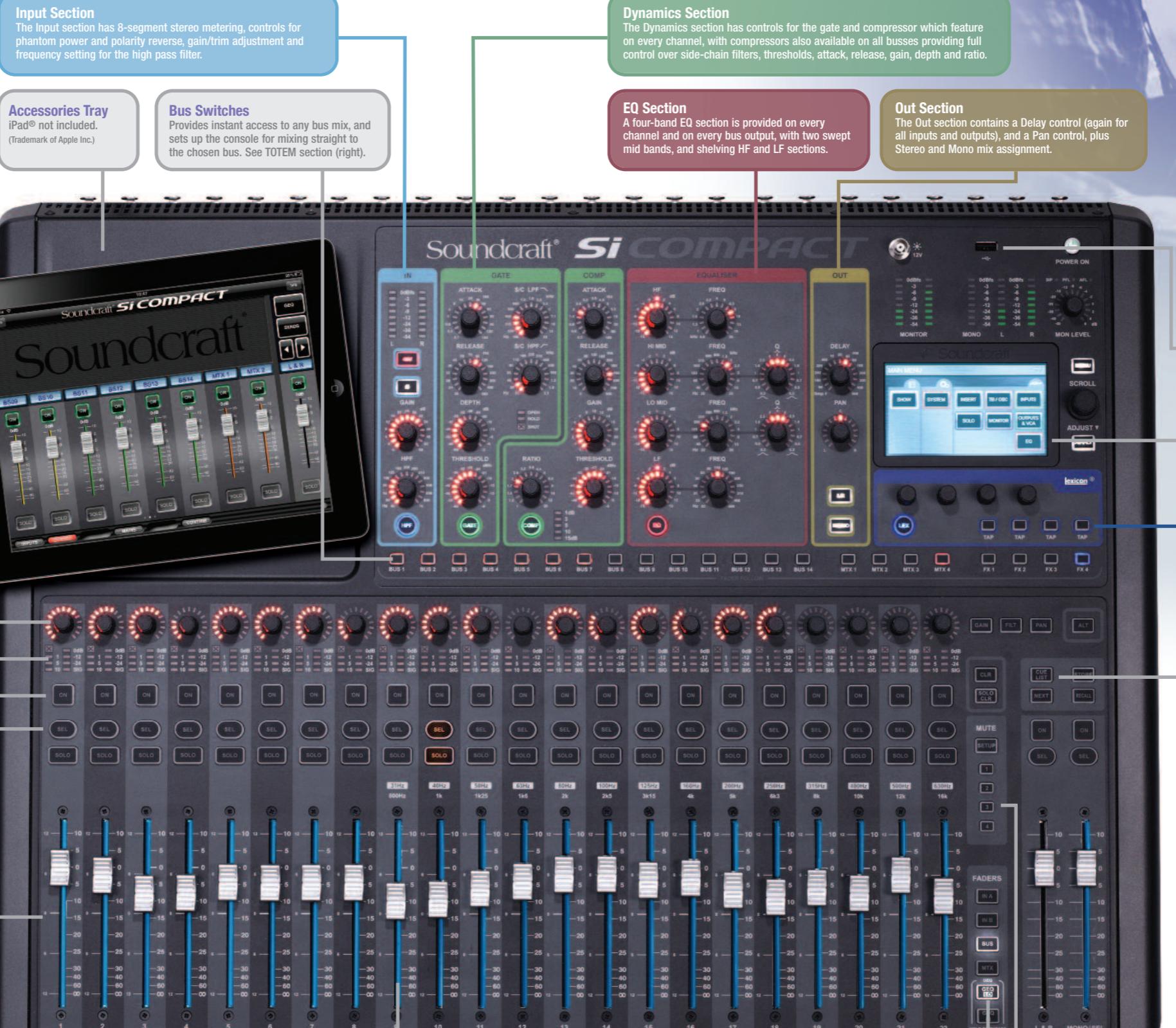
Touch Select to bring a channel to the central control section for adjustment of gains, EQ, dynamics, pan and delay.

User Configurable Fader Layers

User configurable fader layers allow input channels to be reassigned anywhere on either input layer and any bus master to be reassigned to either master layer.

Vi1 Mic Preamps

The mic preamps on the Si Compact follow in the Soundcraft tradition of exemplary performance, winning worldwide acclaim for transparency, high headroom and overload characteristics. These preamps use precision digital control from the Soundcraft Vi1 console, part of the industry-leading Vi Series range.



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.

Accessories Tray
 iPad® 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).

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.

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 FaderGlow accordingly
- Place the FX return onto the MONO/Sel fader*
- Solo the FX Return channel
- Assign the central control section to FX return*

*If mixing to AUX or MTX this is the bus master

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.

Copy & Paste
 Selective Copy & Paste allows all or part of a selected channel or bus to be copied and pasted elsewhere.



Lexicon® FX

Four integral Lexicon stereo effects engines provide more than 20 preset effects, which are controlled via rotary encoders and the touch screen. The effects returns are independent of the channel inputs and, unlike some other consoles in this class, users may adjust parameters of the FX and store their own presets for later use.

Snapshot Control

The Si Compact incorporates a simple cue/snapshot system. Over 1000 cues may be stored and recalled from the dedicated cue control buttons.

Security Mode

Prevents unauthorised access to key functions. In addition to ‘total lockdown’, security can be tailored for different ‘operator access’ levels.

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 linked 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.

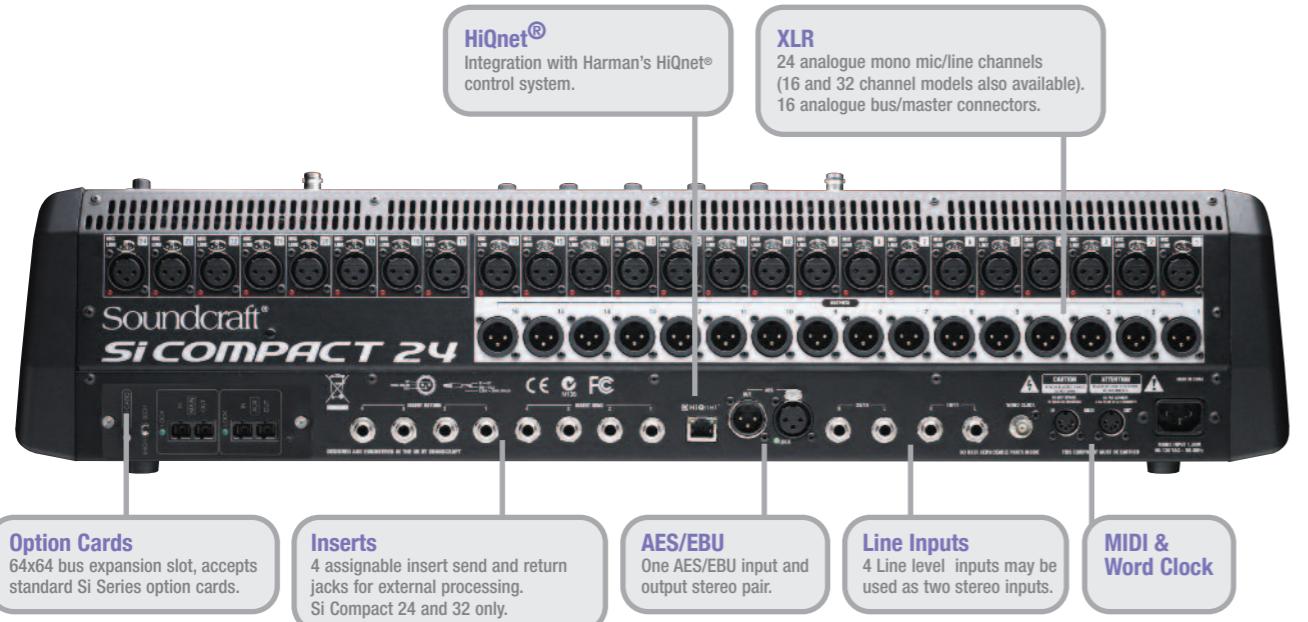
GEQ

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. There is GEQ on every AUX, MATRIX and MONITOR bus.

Mute Groups

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

Flexible connectivity



Card Options*



MADI (Optical card shown)

The MADI I/O card can establish a 64-channel MADI input and output to a remote device such as stage rack, another console or Broadcast feed to an OB.

Optical inputs and outputs are provided on SC connectors available in multi-mode versions only. The auxiliary interface can be used as a redundant link. A Cat5 version of the card is also available. A toggle switch allows the card to be switched from 64ch to 56ch mode for compatibility with older MADI devices.

AVIOM A-NET® 16

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. The A-Net® card will be the start of the chain and provide the audio and synchronization data to the chain. DIP switches on the front panel allow grouping two adjacent channels to one stereo channel, and generating a test tone.

CobraNet®

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. Default setting is 32 output and no input channels.

By default, the module is configured to be the conductor (synchronization master) and can be configured using the free CobraNet Discovery application to match your requirements.

AES/EBU - Option 1

An XLR-based card with 2 pairs of AES/EBU inputs and outputs (4-in/4-out).

AES/EBU - Option 2

A D-Type connector based AES/EBU input/output card with 8 inputs and 8 outputs. A separate BNC connector for wordclock output is provided.

Compact Stagebox

Si Compact is compatible with the full range of Soundcraft and Studer I/O systems. One example is the Compact Stagebox, and this adds a cost-effective expansion option for the Si Compact.

The Soundcraft Compact Stagebox offers a high density of I/O connections in only 4U of rack space. The modular unit is fully

configurable but is offered with a standard configuration of 32 mic/line inputs, 8 line outputs, 8 channels of AES/EBU outputs and 2 expansion slots for standard Soundcraft Studer D21m I/O cards. The D21m is the I/O architecture for Studer as well as Soundcraft digital mixing systems and allows connection to most popular

digital formats, including CobraNet®, AVIOM A-Net®16, EtherSound, ADAT and RockNet. A MADI recording interface can also be fitted to the expansion slots.



The Compact Stagebox comes complete with twin redundant power supplies, thermostatically-controlled fan cooling and full LED status monitoring. The Compact Stagebox is connected to the host console using either Cat-5 or Optical-fibre MADI.

Si Compact Typical Specifications

Frequency Response	+0/-1dB, 20Hz – 20kHz	20Hz to 20kHz Sine/Pink Noise, variable level
	+0.5/-0.5dB, 20Hz – 20kHz	
T.H.D. & Noise (10Hz - 22kHz)	0.006% @ 1kHz	
Mic In (min gain) to Bus output	0.008% @ 1kHz	22Hz-1kHz, 18dB per octave
Mic In (max gain) to Bus output	0.005% @ 1kHz	
Stereo input to master output		
Mic Input E.I.N.	<-126dBu (150 Ohm source)	
22Hz-22kHz bandwidth, unweighted		
Residual Noise	<-88dBu	
Master output; no inputs routed, Mix fader @0dB	80dB @ 1kHz Mic input	
CMRR	48kHz	
Sampling Frequency	24 bit	
Convertor Resolution		
Latency	< 1ms @48kHz	
Mic Input to Bus output	40-bit floating point	
DSP Resolution		
Internal Clock	< +/- 50ppm	
Accuracy	< +/- 5ns	
Jitter		
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	3 kOhms	
All other analogue Inputs	>10 kOhms	
Line Outputs	<75 Ohms	
Dimensions		
Height	445mm (17.5") (482mm/19" with rack kit)	
Depth	716mm (28.2")	
Width	928mm (36.5")	
Weights		
Si Compact 16	11.8kg (26lb)	
Si Compact 24	15.5kg (34lb)	
Si Compact 32	19.2kg (42lbs)	