Technical Data

Frequency Response
Mic Input to Line Out
-50 to 20k Hz
Line Input to Master Out
60 Hz to 20k Hz

T.H.D. and Noise
Mic Input (Min Gain) to Line Out
-0.005% @ 1kHz
Mic Input (Max Gain) to Line Out
-0.01% @ 1kHz

Input Gain
Mic Gain
50dB - 65dB integrated pad design 148 steps
Line Gain
10dB - 16dB

EQ
Hi MD & LO MD
220Hz - 2kHz / 15kHz ± 0.3

Latency
Mic in to Line Out
10ms

Input & Output Levels
Mic Input
+23 dbu max
Line Input
+20 dbu max
Mix Output
-10 dbu max

Output Impedance
Line (balanced)
75Ω

Frequency Response
-5% to 10% 120Ω

Crosstalk (1kHz)
120dB

Channel 28 Alternation
120dB

Input Impedances
Mic In
600Ω / 440Ω / 868Ω / 10kΩ
Line - Line
100Ω / 1kΩ / 458Ω / 10kΩ

Converter resolution
24-bit

DSP resolution
40-bit floating point

Digital I/O
AES/EBU

I/O Expansion Cards

Spatial

Optical MA Di

AES/EBU

CobraNet

AES/EBU 0-Type

Optical MA Di

Axiom A-Net

Dante

Multi Digital Card

Digital Live Sound Console

Soundcraft reserves the right to improve or otherwise alter any information supplied in this document or any documentation supplied heretofore. E&O E 11/13.

Soundcraft, Harman International Industries Ltd., Cranborne House, Chatterton Road, Pettenham, East Grinstead, West Sussex, RH19 1FH, UK. T: +44 (0)1707 660000  F: +44 (0)1707 660742  E: soundcraft@harman.com

Soundcraft USA, 8500 Balboa Boulevard, Northridge, CA 91329, USA  T: +1-818-503-3212  F: +1-818-503-3258  E: soundcraft-usa@harman.com

November 2013

Soundcraft is a registered trademark of Harman International Industries Ltd. All trademarks are the property of their respective owners. Test equipment compared with the SMC Directive 89/336/EEC.
Beyond Analogue Control
FaderGlow™, One-Knob-One-Function and tOTEM

Most digital mixers claim to offer ‘analogue-style’ control. Si Expression goes beyond analogue. 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. And 4 assignable fader layers means you can configure the mix exactly how you want it.

Power mixing made easy

Assignable Fader Layers
FOH
Want your FX send right next to your lead vocal or snare? No problem.

Monitors
Now you can put your monitor masters next to the channels they affect.

Dual Purpose
Split the console surface for simultaneous FOH and monitor mixing.

You choose.
Si Expression is a beast, letting you mix your own way.

Colour touchscreen
Everything you need for easy patching, fader setup, show set-up, FX, and security. But with the One-Knob-One-Function layout of the Si Expression, you’ll find the screen is rarely needed with the Si Expression’s intuitive analogue-console-like workflow.

392 Rack Units of big-name DSP - built in
Si Expression isn’t just packed with DSP power. It’s packed with DSP power from industry leading names in FX, dynamics, EQ and digital audio.

Quality Soundcraft Sound
Lots of mixer companies claim to have great ‘British sound’. Soundcraft is British sound. Started in London more than 40 years ago and still designed and engineered in the UK, Soundcraft defined the term ‘British sound’ in live sound mixing consoles. Soundcraft Co-Founder Graham Blythe’s acclaimed microphone preamps and ‘British’ equaliser still adorn the Si Expression with signature Soundcraft sound today.

Massive Mix Power
Tons of I/O for stage and console
It’s hard to believe that a console this small can pack in so much mixing power. All 3 Si Expression models give you a massive 66 inputs to mix and 35 busses, with all channels offering a full compliment of dynamics, EQ and flexible routing. And unlike other compact digital mixers, adding stageboxes (see over) adds to the I/O capacity without reducing it at the console.

Choose from 3 frame sizes
The features are identical - just pick the fader and local mic preamp count you need. The rack-mountable Si Expression 1 gives you 16 of each, while the Si Expression 2 and 3 deliver 24 and 32 faders and mic preamps respectively.
Perform

Si Expression makes mixing to monitors simple thanks to TEM™ (the one-touch easy mixing system). TEM™ 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.

Mix FOH from anywhere in the venue. Mix monitors from the stage.

The ViSi Remote iPad® app allows remote control of console features from anywhere in the venue, even enabling musicians to mix their own monitors on stage from multiple iPad® devices.

Network

Si Expression integrates seamlessly at the heart of a sophisticated audio installation, with a full range of ViSi Connect expansion cards (see back page) available for the most popular network protocols.

Record

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. Send 40 inputs and 40 outputs to and from your DAW for recording and playback to an Si Expression.

Mix Remote

Connect to stageboxes and personal monitor systems, record live to a DAW or link to an audio network.

(See back page for a full list of ViSi Connect expansion cards)
Connectivity
- 16/24/32 recallable GB mic inputs with locking connectors and phantom power indicators
- 16 XLR analogue line outputs
- 4 Balanced 1/4” Jack mono line inputs
- AES In and Out
- Word Clock
- MIDI In and Out
- HiQnet Ethernet port for HiQnet system integration and VSI Remote System
- 64x64 VSI Connect expansion slot (see back page)

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

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 iOTEM Keys for all 14 mix busses, 4 Matrix busses and 4 FX engines
- Mix to any of the mix busses by simply tapping a iOTEM 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

4 Band British EQ
- Sweepable LF and HF shelf bands
- Fully parametric Hi Mid and Low Mid EQ bands
- EQ engage switch

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

Output Section
- Channel delay for time alignment on input and output bus, displayed as time or distance
- Variable time delay per channel or Bus (0-500ms)
- Pan control
- 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.)

48v8p Switch

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
- 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
- 4 mute groups for muting groups of channels as one
- 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