## Typical Specifications

### Frequency Response
- **Mic / Line Input to any Output**: +/-1.5dB, 20Hz – 20kHz
- **T.H.D.**
  - Mic Sensitivity: -30dBu @ 1kHz
  - Line Input: -85dBu @ 1kHz

### Input Gain
- **Mic Gain**: -5dB – 65dB integrated pad design 1dB steps
- **Line Trim**: -10dB – -15dB

### EQ
- **FL MID & LO MID**: 20Hz – 500Hz, +/-15dB
- **HIF**: 20kHz – 20kHz, +/-15dB
- **HPF**: 25Hz – 1kHz
- **GEQ**: 31Hz – 16kHz 1/3 octave

### Delay
- User adjustable delay: 1 sample – 500ms

### Digital I/O
- **Converter resolution**: 24-bit
- **DSP resolution**: 48-bit floating point

### Latency
- **Mic in to Line Out**: <0.8 ms
- **Line Trim to AES out**: <0.8 ms
- **AES in to Line Out**: <0.8 ms
- **AES in to AES out**: <0.8 ms
- **Stagedio Mic In to Stagebox**: <0.8 ms

### Input & Output Levels
- **Mic Input**: +48dBu max
- **Line Input**: +20dBu max
- **Mix Output**: +21.5dBu max

### Input & Output Impedances
- **Mic Input**: 1500Ω (unbalanced), 750Ω (balanced)
- **Line Input**: 110Ω
- **Word Clock used as Input**: 4kHz
- **Word Clock used as Output**: 4kHz
- **EPS Out**: 110Ω

### Lamp Output
- **12V DC**: 100mA max (per socket)

### Power
- **AC Input voltage range**: 88-264VAC auto-sensing
- **Operating Temperature Range**: 5°C to 45°C
- **Humidity**: 0%–90%, non-condensing Ta=40°C (104°F)
- **Storage Temperature Range**: -20°C to 60°C (4°F to 140°F)

### Weights and Dimensions (net)
- **Si Expression 1**: Width: 445mm / 17.5" Height: 174mm / 6.9" Depth: 520mm / 20.5"
- **Si Expression 2**: Width: 482mm / 19" Height: 174mm / 6.9" Depth: 520mm / 20.5"
- **Si Expression 3**: Width: 518mm / 20.5" Height: 174mm / 6.9" Depth: 520mm / 20.5"

### Weights and Dimensions (with rack ears removed)
- **Si Expression 1**: Width: 445mm / 17.5" Height: 150mm / 6" Depth: 520mm / 20.5"
- **Si Expression 2**: Width: 482mm / 19" Height: 150mm / 6" Depth: 520mm / 20.5"
- **Si Expression 3**: Width: 518mm / 20.5" Height: 150mm / 6" Depth: 520mm / 20.5"
After 40 years mixing live sound for many of the biggest bands in the business, acclaimed British console manufacturer Soundcraft has applied all its knowledge and expertise to developing a digital mixer of exceptional performance – at a refreshingly affordable price. Available in a range of frame sizes including a 19” rackmount version, Si Expression delivers powerful digital live sound mixing along with legendary Soundcraft sound quality, and intuitive, ‘analogue-style’ control.

Only Soundcraft FaderGlow™ lights your way to a better mix

An acclaimed Soundcraft innovation direct from our tour sound Vi Series console, FaderGlow illuminates the fader track in different colours to provide at-a-glance fader status information – Aux sends, FX sends, Graphic EQ, etc.

Global mode encoders for a hands-on mix

Global mode encoders provide instant access to Gain, Pan and Filter, keeping vital controls at your fingertips at all times, without the need to select or assign channels first; and when mixing to a stereo bus like in-ears these become your channel to mix pan controls!

More faders means simultaneous access to more channels reducing the need for layer swaps to almost zero!

A full complement of input faders provides instant access to almost every possible channel of your mix and, with Soundcraft’s unique D.O.G.S™ one-touch mixing system, you probably won’t even need to change layers to access all inputs, bus masters and FX returns.

Freely assignable faders

The facility to assign faders freely across all layers makes mixing so much more comfortable, shrink stereo channels to a single fader and have your key channels on the same faders regardless of which fader layer is active.

Colour touchscreen makes mixing easy

Si Expression frees the operator to mix naturally. A colour touchscreen interface means no messing with frustrating navigation pads, while one-control-per-function architecture gets you straight to the mix with no pre-selection mapping.

More mixing capacity

Si Expression is big on mixing capacity, with all 3 models providing a massive 66 inputs to mix and, unlike other low cost digital live sound mixers, all channels offer full dynamics, EQ and routing.

Get a complicated monitor set up or using in-ears? No problem. Si Expression gives you 35 busses to mix to, and there’s no shortage of I/O either, with 16 line outputs as standard even on the smallest model, plus line inputs and AES I/O.

Stunning Lexicon FX

We called upon our friends at Lexicon to empower Si Expression with stunning digital effects. Each of the 4 separate FX processors has a dedicated FX bus so there’s no need to assign a bus to an FX and set it up – it just works!

Graphic EQ on every bus

Powerful dynamics processing/output from BSS and dbx, with instant access always available to all dynamics parameters and EQ bands. Graphic EQ is standard on every bus, all of the time, without the need to assign it. And best of all, it doesn’t ‘eat into’ your FX processing power.

D.O.G.S: A mixer’s best friend

Another important innovation 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.

Most of all, it’s about the sound

All the mixing power in the world is useless without great sound. That’s why we gave Si Expression ultra-transparent, high-headroom, recallable mic preamps with digital control straight from our Vi1 console, and DSP performance from the advanced audio labs of Soundcraft Studer.

The Si Expression is available in 16 (rackmount), 24 and 32 channel frame sizes.
User Configurable Fader Layers

User configurable fader layers allow inputs and outputs to be reassigned anywhere on any fader layer, for rapid access.

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 that feature on every channel, with compressors also available on all busses providing full control over side-chain filters, thresholds, attack, release, gain, depth and slope.

64x64 option card slot

For multiple I/O formats, and interfacing to personal monitoring systems, DMAs etc. (see over).

Vi1 Mic Preamps

The mic preamps on the Si Expression 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.

Vi1™ The one-touch easy mix

One key and one way to do any kind of mix – makes it easy to learn and get consistent results.

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.

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.

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.

Dynamix® 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 all the parameters of the active FX patch.

Global Encoders

Each channel has a multifunction rotary encoder, which acts in Gain, High Pass Filter Adjustment or pan modes when engaged by the corresponding master switch and when mixing to a stereo bus. Use in-ears these become your channel to mix pan controls.

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 all the parameters of the active FX patch.

Soundcraft FaderGlow™

Developed for Soundcraft’s high-end touring Vi Series consoles, FaderGlow illuminates the fader according to the current operating mode. Yellow shows pre-fade Aux sends, green for post-fade Sends, cyan for FX sends, red for GEQ, etc., and the real beauty is that it works in exactly the same way for Aux Matrix or FX sends! The FaderGlow (bands on faders) method allows you to control send levels and on/off directly via the faders and associated ON keys.

Snapshot Control

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

Mute Groups

Four mute groups allow you to mute groups of channels as one, with a single press of the mute master.
Any one of a range of Soundcraft ViSi Connect option cards can be fitted into the 64x64 card slot on the rear panel, enabling Si Expression mixers to be configured specifically for applications including the use of personal monitoring systems, multichannel DAW recording, or connection to audio networks such as CobraNet® and RockNet. Option cards are also available for connection to a range of ViSi Connect stageboxes, offering users a choice of I/O capacity.

**Optional I/O cards provide access to personal monitor systems, audio networks, stageboxes, DAW recording and more.**

- Optimise the front of house mix from anywhere in the room
- Adjust monitor levels while standing next to the artist
- Control input, aux and output levels and graphic EQ settings
- Use in standalone mode for familiarisation with console functions
- Control a network of Soundcraft digital consoles from one iPad® app
- • Connects to consoles via Harman’s HiQnet® network
- Use multiple iPad® devices on the same console, so several artists can control their own monitor mixes
- Console and audio unaffected by wireless dropouts or interference
- Auto discovery of consoles on network - no manual address entry needed
- Connects to consoles via Harman’s HiQnet® network

**MONITORING**

Installing the optional BLU link card enables connection to dbx PMC Personal Monitor Controllers, allowing performers to set up and control their own monitor mixes.

**STAGEBOXES**

Optional MADI cards enable connection to a range of Soundcraft ViSi Connect stageboxes (see below).

**AUDIO NETWORKING**

Installing the optional CobraNet card enables connection to CobraNet digital audio networks.

Installing the optional Riedel RockNet card enables connection to RockNet digital audio networks.

**DAW RECORDING**

The optional Multi Digital card enables connection to remote mic preamps and digital audio workstations.

**Advanced live sound mixing where you need it most**

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. iPad® is a registered trademark of Apple Inc.