

Soundcraft Si Expression 2 Specs

Preamplifier	24 x Balanced XLR's with preamps
Faders	22
Frequency Response	Mic/Line Input to any output ± 1.5 dB, 20 to 20,000 Hz
THD	Mic sensitivity -30 dBu: <0.01% at 1 kHz
Residual Noise	Master output; no inputs routed, mix fader at 0 dB: <-86 dBu
Mic Input Noise (E.I.N.)	-126 dBu (150 Ω source)
Mix Output Noise	< -86 dBu
Input Noise	1 input to mix at unity gain: -84 dBu
CMRR	Mic at 1 kHz: -80 dBu
Crosstalk	Channel On attenuation: <120 dB Channel Fader attenuation: <120 dB Mic-Mic: -100 dB at 1 kHz, -85 dB at 10 kHz

Line - Line: -100 dB at 1 kHz, -85 dB at 10 kHz

Input Gain

Microphone: -5 to 58 dB integrated pad design in 1 dB steps

Line Trim: -10 to 16 dB

Gate

Threshold: -60 dBfs to -6 dBfs

Depth: -60 to -3 dB

Attack: 0.1 to 200 ms

Release: 20 to 500 ms

Side-chain HPF 22 to 2,500 Hz

Side-Chain LPF 160 to 20,000 Hz

Compressor

Threshold

-52 dBfs to -6 dBfs

Ratio 1:1 to 20:1

Ratio

1:1 to 20:1

Attack

0.1 to 200 ms

Release

5 to 900 ms

Make-up Gain

0 to 24 dB

Equalizer

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Hi Mid and Low Mid: 22 to 20,000 Hz, ± 15 dB, Q 6 to 0.3

Shelf (HF): 800 to 20,000 Hz, ± 15 dB

Shelf (LF): 20 to 500 Hz, ± 15 dB

HPF: 40 to 1,000 Hz

Audio Delay

User adjustable 1 sample to 500 ms

Graphic EQ

31 to 16 kHz, 1/3 octave

Digital I/O

AES Sample Rate Converter range: 8 to 200 kHz

External World Clock In range: 48 kHz ± 7 Hz (internal systems), ± 3 Hz with stageboxes

Word Clock Out jitter: ± 7 ns

Analogue Out for 0 dBfs: +21.5 dBu

Converter resolution: 24 bit

DSP resolution: 40 bit floating point

Latency

Mic In to Line Out: <0.8 ms

Analogue In to AES Out: <0.6 ms

AES In to Line Out: <0.8 ms

AES In to AES Out: <0.5 ms

Stagebox Mic In to Stagebox: <0.9 ms

Input Level

Mic Input: +22 dBu max

Line Input: +22 dBu max

Output Level

Mix Output: +21.5 dBu max

Headphones at 150 Ω 300 mW
(recommended impedance 32 to 200 Ω)

Input Impedance

Mic Input: 3 k Ω

Line Input: 10 k Ω

AES Input: 110 k Ω

Word Clock used as Input: 110 k Ω

Output Impedance

Outputs: 150 Ω (balanced), 75 Ω (unbalanced)

Word Clock used as Output: 50 Ω

Word Clock used as Input: 47 k Ω

AES Output: 110 Ω :

Lamp

12 VDC at 100 mA per socket

Power Consumption

<130 W

AC Input Voltage range: 88 to 264 VAC auto sensing

AC Frequency range: 47 to 63 Hz

Operating Conditions

Operating Temperature range: 41 to 113°F (5 to 45°C)

Humidity: 0 to 90% non condensing
Ta= 104°F (40°C)

Storage Temperature range: -4 to 140°F (-20 to 60°C)

Dimensions (H x W x D)

6.70 x 28.2 x 20.5" (169 x 716 x 520 mm)

Weight

34.1 lb (15.5 kg)

Packaging Info

Package Weight

47 lb

Box Dimensions (LxWxH)

33 x 27 x 11"
