

Soundcraft Si Expression 3 Specs

Mixer

Number of Analog Input Channels	32
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Number of Mic Preamps	32
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Faders	30
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Signal Processing

Gain/Trim Range	Mic: -5 dB to 58 dB (in 1 dB Steps) Line: -10 dB to +16 dB
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Gate Parameters	Threshold: -60 to -6 dBFS Depth: -60 to -3 dB Attack: .1 ms to 200 ms Release: 20 ms to 500 ms
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Compressor Parameters	Threshold: -52 to -6 dBFS Ratio: 1:1 to 20:1 Attack: .1 to 200 ms Release: 5 to 900 ms Makeup Gain: 0 to 24 dB
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Sidechain Filters	Gate: High-Pass: 22 Hz to 2.5 kHz
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Low-Pass: 160 Hz to 20 kHz

EQ Parameters

1 x HF Shelf:

±15 dB at 800 Hz to 20 kHz

2 x MF Notch/Peak:

±15 dB at 22 Hz to 20 kHz, 6 to 0.3 Q

1 x LF Shelf:

±15 dB at 20 Hz to 500 Hz

Graphic EQ

28-Band 1/3 Octave, 31 Hz to 16 kHz

Filters

High-Pass: 40 Hz to 1 kHz

Audio Delay

Adjustable Up to 500 ms

Digital Audio

Sample Rates

AD/DA Conversion:

Up to 200 kHz

Bit Depth

AD/DA Conversion:

24-Bit

DSP

40-Bit Floating Point

Jitter

±7 ns

Word Clock Input

48 kHz ±7 Hz ⓘ

Latency

<0.8 ms (Mic Input to Line Output)

<0.6 ms (Analog Input to AES Output)

<0.8 ms (AES Input to Line Output)
<0.5 ms (AES Input to AES Output)
<0.9 ms (Stagebox Input to Stagebox Output)

Performance

dBFS Reference Level	+21.5 dBu = 0 dBFS
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Frequency Response	Mic/Line Input: 20 Hz to 20 kHz ± 1.5 dB
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Max Input Level	Mic Input: +22 dBu Line Input: +22 dBu
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Output Level	Mix Output: +21.5 dBu (Max)
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Headphone Output Power	300 mW into 150 ohms ⓘ
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I/O Impedance	Mic Input: 3 kilohms Line Input: 10 kilohms AES3 Input: 110 kilohms Output: 150 ohms (Balanced) 75 ohms (Unbalanced) Word Clock Output: 50 ohms Word Clock Input: 47 kilohms
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AES3 Output:

110 ohms ⓘ

Crosstalk

Adjacent Channels:

<120 dB

Adjacent Inputs:

-100 dB at 1 kHz

-85 dB at 10 kHz

CMRR

-80 dBu

EIN

-84 dBu at Unity Gain

-126 dBu (150-ohm Input) ⓘ

Noise Floor

<-86 dBu

<-86 dBu at Unity Gain ⓘ

THD

<0.01% ⓘ

Connectivity

Analog Inputs

32 x XLR Balanced Mic Input

Power

AC Input Power

88 to 264 VAC, 50 / 60 Hz

Power Consumption

130 W (Maximum)

Lamp Power

12 VDC at 100 mA per Socket

Physical

Operating Temperature	41 to 113°F / 5 to 45°C
Operating Humidity	0 to 90%
Storage Temperature	-4 to 140°F / -20 to 60°C
Dimensions	6.7 x 36.5 x 20.5" / 169 x 928 x 520 mm
Weight	46.2 lb / 21 kg

Packaging Info

Package Weight	59.1 lb
Box Dimensions (LxWxH)	41 x 27 x 11"