

# Soundcraft Si Expression 1 Specs

## Mixer

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Number of Analog Input Channels 16

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Number of Mic Preamps 16

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Faders 14

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## Signal Processing

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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

Low-Pass: 160 Hz to 20 kHz

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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

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Graphic EQ

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

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Filters

High-Pass: 40 Hz to 1 kHz

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Audio Delay

Adjustable Up to 500 ms

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## Digital Audio

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Sample Rates

**AD/DA Conversion:**  
Up to 200 kHz

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Bit Depth

**AD/DA Conversion:**  
24-Bit

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DSP

40-Bit Floating Point

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Jitter

±7 ns

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Word Clock  
Input

48 kHz ±7 Hz ⓘ

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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)

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## Performance

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dBFS Reference Level                    +21.5 dBu = 0 dBFS

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Frequency Response                    **Mic/Line Input:**  
20 Hz to 20 kHz  $\pm$ 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

## AES3 Output:

110 ohms ⓘ

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Crosstalk

### Adjacent Channels:

<120 dB

### Adjacent Inputs:

-100 dB at 1 kHz

-85 dB at 10 kHz

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CMRR

-80 dBu

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EIN

-84 dBu at Unity Gain

-126 dBu (150-ohm Input) ⓘ

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Noise Floor

<-86 dBu

<-86 dBu at Unity Gain ⓘ

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THD

<0.01% ⓘ

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## Connectivity

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Analog Inputs

**16 x** XLR Balanced Mic/Line Input

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## Power

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AC Input Power

88 to 264 VAC, 50 / 60 Hz

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Power Consumption

130 W (Maximum)

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Lamp Power

12 VDC at 100 mA

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## Physical

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Operating Temperature 41 to 113°F / 5 to 45°C

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Operating Humidity 0 to 90%

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Storage Temperature -4 to 140°F / -20 to 60°C

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Dimensions 6.7 x 19 x 20.5" / 169 x 483 x 520 mm

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Weight 24.2 lb / 11 kg

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## Packaging Info

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Package Weight 36.65 lb

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Box Dimensions (LxWxH) 28 x 22 x 10"

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