

Signature Plus 16

16-CHANNEL ANALOG MIXER WITH LEXICON EFFECTS



OVERVIEW

The Soundcraft Signature Plus 16 is a next-generation console in the Signature Plus Series. It features 16 creative input channels and delivers professional workflows and flagship features at a competitive price. As an evolution of the acclaimed Soundcraft Signature Series, Signature Plus models integrate professional audio performance with its clear layout, including color coded and tactile knobs for fast adjustments. Premium creative audio quality comes from Ghost mic preamps, Sapphyre EQ, dbx one-knob compressor, and a Lexicon hardware effects processor with Store and Tap Tempo. Pro flexibility features include SSM (Simple Success Metering), Listen bus and Talkback To, Mix to Auxes, 4x4 USB-C 192kHz interface, and flexible monitoring controls.

Rugged construction and a surface-mounted QR code, linking to training videos, manuals, and support resources, ensure Signature Plus models are ready for any environment. The Signature Plus 16 isn't just another analog mixing console—it's a professional-grade creative hub that empowers artists, engineers, and creators to deliver exceptional sound in studios, on stage, and across streaming platforms.

FEATURE HIGHLIGHTS

Intuitive, Professional Control

Signature Plus features a clean, purpose-driven layout that optimizes input and output sections for fast, confident navigation. Color-coded buttons and tactile "squirle" knobs make adjustments quick and precise—even in low-light or high-pressure environments.

Creative Analog Character

Soundcraft Ghost mic preamps deliver smooth overload behavior and rich harmonics, paired with Sapphyre EQ for musical tone shaping. Built-in dbx one-knob compressors with harmonic enhancement and insert points provide flexible sound shaping.

Exclusive Lexicon Hardware Effects

As the only console in its class with a built-in Lexicon hardware processor, Signature Plus 12 adds preset Store and Tap Tempo functions for expanded creative control.

Advanced Talkback To, Listening and Metering

A dedicated Listen bus allows engineers to monitor channels without interrupting the main mix, while Talkback To routing ensures clear communication where and when needed. Extensive SSM (Simple Success Metering) provides fast visual feedback across all inputs and outputs.

USB-C Connectivity For Modern Workflows

A 4x4 USB-C 192kHz interface enables seamless playback and recording with laptops or mobile devices. USB inputs can be routed into channel strips or override the mix for break music and DJ sets. Additionally, single press select empowers direct headphone and control listening between sessions.

Simple, Flexible Monitoring

User-configurable monitoring controls include independent headphone/control room outs, with Mute / Dim / Mono Sum, and user selection from Auxes, Listen, Mix, or direct USB returns for streamlined monitoring precision per listener.

FEATURES

16-channel creative inputs with professional console workflows
Designed for intuitive real-world ease of use
Includes Rack-ear mounts

Creative Character Mono Inputs:

- Soundcraft Ghost mic preamps delivering smooth high-gain behavior
- Built-in dbx one-knob compressors with harmonic enhancement for gentle compression on voices and acoustic instruments
- TRS insert points for flexible sound shaping, like aggressive drum compression processors
- Extensive SSM (Simple Success Metering) for precise visual feedback end-to-end
- Sapphyre EQ, famous for musical tone shaping
- Exclusive Lexicon hardware effects processor, now with Store and Tap Tempo for expanded creative control
- Intuitive layout with color-coded buttons and tactile “squircle” knobs for fast, confident navigation and operation
- Smooth, premium-quality faders for precise control

Professional Style Workflows On Every Size:

- 4x4 USB-C 192kHz interface for seamless playback and recording with laptops or mobile devices
- Pro Listen bus, without interrupting the main mix to artists or the audience
- “Talkback To” routing, powering talkback to the user’s selection of outputs
- 4x Aux sends and Mix to Auxes simplicity for versatile monitoring output control
- User-configurable monitoring controls, including headphone/control room outs, Mute / Dim / Mono Sum, and direct USB routing
- Front-panel QR code for instant access to training, manuals, and support
- Included software bundle supporting modern hybrid workflows

TECHNICAL SPECIFICATIONS

PERFORMANCE*		
PARAMETER	TEST CONDITIONS	VALUE
Equivalent Input Noise (EIN)	Preamp Gain @ 65dB A-weighted AES17 filter (20kHz)	-128dBu
Frequency Response	Audio band flatness, relative to 1kHz 20Hz to 20kHz	+0.5dB/-1.5dB
Frequency Response	-3dB cutoff	15Hz to 80kHz
Residual Noise	One channel routed, unity gain A-weighted	-90dBu
Residual Noise (Rca Channel Only)	Channel trim at noon A-weighted USB not routed	-78dBu
THD+N	30dB preamp gain +14dBu at any output AES17 filter (20kHz)	<0.005%
CMRR	30dB preamp gain -10dBu input level	>80dB
CROSSTALK	+30dB preamp gain +14dBu at output Measured signal on non-routed output, relative to +14dBu	-80dB
Aux Send Isolation	+30dB preamp gain Relative to +14dBu at aux output with unity gain Aux pot at minimum, Aux main pot at unity	-75dB

USB SPECIFICATIONS		
PARAMETER	TEST CONDITIONS	VALUE
Sample Rates		44.1kHz, 48kHz 88.1kHz, 96kHz 176.2kHz, 196kHz
Full Scale Playback Level	USB trim knob at noon Routed through unity gain channel to MIX	+17dBu
Full Scale Recording Level	0dBFS equivalent level at MIX output	+20dBu
Dynamic Range, Playback		94dB
Dynamic Range, Recording		107dB
THD+N, Playback	-0.5 dBFS playback level Adjust USB trim to get +14dBu at any output	<0.01%
THD+N, Recording	Input to mono channel Preamp gain 30dB Route to MIX and Group 3-4 Adjust channel fader to reach -1dBFS	<0.005%
DIMENSIONS		
Box Dimensions		610 x 649 x 199 mm (24.02 x 25.55 x 7.83 in)
Weight, in box with accessories		13.5kg (29.8 lbs)
Product Dimensions		438 x 535 x 106 mm (17.24 x 21.06 x 4.17 in)
Weight, bare product		7.8kg (17.2 lbs)
Power Supply		Worldwide

*Conditions unless otherwise noted:

- All faders at unity, one channel routed to any output, all other channels muted
- EQ flat, Compressor in OFF position with threshold set to +10
- Stimulus signal 1kHz
- Source impedance 150ohm
- Load impedance 200kohm
- Measurements A-weighted, with AES17 (20kHz) filter
- All values typical with tolerance of +/-5%