

SD12 96 Digital Mixing Console



[Full product information online](#)

Specifications

General Specifications

- Faders: 26 x 100mm touch-sensitive, motorised
- Screens: 2 x 15" LCD high – resolution touch screens
- Input Channels: 96
- Busses: Up to 48 plus masters Aux / Group busses with full processing Mono / Stereo / LCR
- Matrix: Up to 12 Input / 8 Outputs with full processing
- Control Groups: Up to 12, selectable for VCA-style, Moving fader, Mute Group
- Graphic Eq: 16 x 32-band, Gain +/- 12dB
- Internal FX: Up to 12 stereo effects comprising of reverbs and delay/chorus/pitch/enhancer
- Local I/O: 8 x mic/line I/O, 8 x AES I/O
- MADI interface: 2 Interfaces, BNC connectivity
- Optic interface: Optional
- Sampling rates: 48kHz / 96kHz
- GPIO: 2 x DSub37
- DMI: 2 x DiGiCo Multichannel Interface
- Ext Sync: Wordclock, AES, MADI, Optics
- SD12 Dimensions: 1124 mm (w) x 795 mm (d) x 389 mm (h)
- SD12 Weight: 42Kg / 96lbs.(130Kg / 287lbs. with optional flightcase)
- SD12 Flightcase: 1270 mm (w) x 570 mm (d) x 1150 mm (h)
- SD12 Power Requirements : 90V-260V, 50-60Hz, 150VA. (140W)

Audio Specification

- Sample rate: 96kHz or 48kHz
- Processing delay: 1ms Typical (channel, SD-Rack input through L-R buss to stage output @96kHz)
- Internal processing: Up to 40-bit, floating point A>D & D>A 24-bit Converter Bit Depth
- Frequency response: +/- 0.6dB (20Hz – 20kHz)
- THD: <0.05% @ unity gain, 10dB input @ 1kHz
- Channel Separation: Better than 90dB (40Hz – 15kHz)
- Microphone Input: Better than -126dB Equivalent Noise
- Maximum Output Level: +22dBu:
- Maximum Input Level: +22dBu:

Processing Channel Specification

Input Channel

- Name: User-Defined / Presets
- Channel Selection: Mono / Stereo / Multi
- Input Routing: Main & Alternate Input
- Analogue Gain: -20 to +60dB
- Phase: Normal / Reverse
- Digital Trim: -40 to +40dB
- Delay: >1 Sec (Coarse & Fine Control)
- DiGiTuBe: Drive 0.01 – 50.0
- Bias 0 – 6
- LPF: 20 – 20kHz, 24dB/Oct
- HPF: 20 – 20kHz, 24dB/Oct
- Insert A: (Pre EQ/Dyn) On/Off
- Equalisation: 4 Band EQ: Parametric or Dynamic (Low/Lowshelf, Lower-Mid/Lowshelf, Upper-Mid/Hi Shelf, Hi/Hishelf)
On/Off
Freq; 20 – 20kHz
Gain; +/- 18dB
Q: 0.1 -20 (Parametric) / 0.10-0.85 (Shelf)
Dynamic EQ On/Off
Over/Under
Band On/Off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
- Dynamics 1: Single or Multiband (3-Band) Compressor: On/Off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
Gain; 0 to +40dB with
Autogain Option
Link; Any Channel/Buss
Hi Crossover; 20Hz – 20kHz
Lo Crossover; 20Hz – 20kHz
Knee : Hard, Med, Soft De-Esser: Threshold : 20us – 20ms
Release : 1ms – 100ms
Ratio : 1:1 – 50:1
Ess-Band : Listen On/Off
Ess-Band Filter Freq / Width: 20Hz – 20kHz
- Dynamics 2: On/Off Gate / Ducker: Threshold; -60 – 0dB

- Attack; 50us – 100ms
- Hold; 2ms – 2s
- Release; 5ms – 5s
- Range; 0 – 90dB
- Key; Any Source
- Key Listen
- Freq/Width; 20 – 20kHz Compressor: On/Off
- Threshold; -60 – 0dB
- Attack; 500us – 100ms
- Release; 10ms – 10s
- Ratio; 1:1 – 50:1
- Gain; 0 to +40dB with Autogain Option
- Link; Any Channel / Buss
- Hi Crossover; 20Hz – 20kHz
- Lo Crossover; 20Hz – 20kHz
- S/C Source : Any Source
- S/C Listen : On/Off
- S/C Filter Freq/Width: 20Hz – 20kHz
- Insert B: (Post EQ/Dyn) On/Off
- EQ/Dyn order: EQ/Dyn or Dyn/EQ
- Mute: Channel Mute / Hard Mute
- Solo: Solo Buss 1 / Solo Buss 2 / Both, Auto Solo
- Channel Safe: Input, EQ, Dyn, Aux, Pan, Fade/Mute, Inserts, Buss, Directs, Full Safe
- Output Routing: Buss, Insert A, Insert B, FX
 - Direct: On/Off, Pre-Mute / Pre-Fade / Post-Fade, Level +/- 18dB
- Fader: 100mm Motorised Fader ∞ to +10dB

Processing Channel Specification

Aux / Group / Matrix Output

- Name: User-Defined / Presets
- Phase: Normal / Reverse
- Digital Trim: -20 to +60dB
- Delay: >1 Sec (Coarse & Fine control)
- DiGiTuBe: Drive 0.01 – 50.0
 - Bias 0 – 6
- LPF: 20 – 20kHz, 24dB / Oct
- HPF: 20 – 20kHz, 24dB / Oct
- Insert A: (Pre EQ/Dyn) On/Off
- Equalisation: 8 Band EQ: 4 band Parametric and 4 band parametric or Dynamic (Low/Lowshelf, Lower-Mid/Lowshelf, Upper-Mid/Hi Shelf, Hi/Hishelf)
 - On/Off

- Freq; 20 – 20kHz
Gain; +/- 18dB
Q: 0.1 -20 (Parametric) / 0.10-0.85 (Shelf)
Dynamic EQ On/Off
Over/Under
Band On/Off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
- Dynamics 1: Single or Multiband (3-band) Compressor: On/Off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
Gain; 0 to +40dB
with Autogain Option
Link; Any Channel / Buss
Hi Crossover; 20Hz – 20kHz
Lo Crossover; 20Hz – 20kHz
Knee : Hard, Med, Soft De-Esser: Threshold: 20us – 20ms
Release: 1ms – 100ms
Ratio: 1:1 – 50:1
Ess-Band: Listen On/Off
Ess-Band Filter Freq/Width: 20Hz – 20kHz
 - Dynamics 2: On/Off Gate / Ducker: Threshold; -60 – 0dB
Attack; 50us – 100ms
Hold; 2ms – 2s
Release; 5ms – 5s
Range; 0 – 90dB
Key; Any Source
Key Listen
Freq/Width; 20 – 20kHz Compressor: On/Off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
Gain; 0 to +40dB
with Autogain Option
Link; Any Channel/Buss
Hi Crossover; 20Hz – 20kHz
Lo Crossover; 20Hz – 20kHz
S/C Source : Any source
S/C Listen : On/Off

S/C Filter Freq/Width: 20Hz – 20kHz

- Insert B: (Post EQ/Dyn) On/Off
- EQ/Dyn Order: EQ/Dyn or Dyn/EQ
- Mute: Channel Mute / Hard Mute
- Solo: Solo Buss 1 / Solo Buss 2 / Both, Auto Solo
- Channel Safe: Trim, EQ, Dyn, Fade/Mute, Inserts, Outputs, Full Safe
- Output Routing: Outputs, Insert A, Insert B, FX
- Fader: 100mm Motorised Fader ∞ to + 10dB