

SD10-24 Digital Mixing Console



[Full product information online](#)

Specifications

General Specifications

- Faders 25 x 100mm Touch-Sensitive, Motorised
- Screens 1 x 15" (38cm) LCD High – Resolution Touch Screen
- Meters 26 x 20-Segment LED Bargraph
- Input Channels 144
- Busses 64 assignable that can be configured as groups / auxiliary busses + LR or LCR/LCRS/5.1 Master
- Solo Busses 2 Stereo Busses
- Matrix 24 x 24 Matrix (Additional to Busses Above)
- Control Groups 24, Selectable for VCA-style, Moving Fader, Mute Group
- Graphic EQ 24 x 32-band, Gain +/- 12dB
- Internal FX 24 Stereo FX Processors
- Local I/O 8 x Mic/Line I/O, 8 x AES/EBU I/O (Mono)
- MADI Interface 2 Redundant Interfaces, 75 Ohm BNC Connectivity
- Optic Interface Optocore
- MIDI Interface In / Out / Thru
- VGA Port DB-15 Mini-Female (1024 x 768 Resolution)
- USB Ports 3 x USB 2
- Light Connection 2 x XLR3 1.2 – 12V
- Ext Sync Word Clock, AES, MADI, Optics
- Headphone TRS Unbalanced / 8-600 Ohms 1/4 Inch Jack
- GPIO: 2 x DSub25
- SD10-24 Dimensions 982mm (w) x 799mm (d) x 286mm (h)
- SD10-24 Weight 45Kg/ 99.20lbs (140Kg/ 308.64lbs with Optional Flightcase)
- SD10-24 Flightcase 1170mm (w) x 1158mm (h) x 498mm (d) Weight 95kg/ 209.43lbs (Optional)
- SD10-24 Power Requirements 90-264 VAC, 47-63Hz Auto Sensing. 235 watts

Audio Specification

- Sample Rate: 48kHz or 96kHz
- Processing Delay: 2ms Typical @ 48k (72 Stereo Channels, Stage Input Through L-R Buss to Stage Output) 1.1ms @ 96k
- 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)
- Residual Output: <90dBu Typical
- Noise: (20Hz – 20kHz)
- 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/Hisshelf)
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