

SD7 TECHNICAL SPECIFICATIONS

General Specifications

Faders: 38 x 100mm touch-sensitive, motorised
14 x 60mm touch sensitive, motorised
Screens 3 x 15" LCD high - resolution touch screens
Meterbridge 3 x Custom Mounted LCD high-resolution TFT-LCD screens
Redundancy Internal removable engine x 2
Internal hot-swappable PSU x 2
Processing Channels Up to 256 (combination of Input Channels / Aux / Solo Group Busses)
Busses Up to 128 Aux / Group busses with full processing
Mono / Stereo / LCR / 5.1 / 7.1
Matrix Up to 32 Input / 32 Outputs with full processing
Control Groups Up to 32, selectable for VCA-style, Moving fader, Mute Group
Graphic Eq 32 x 32-band, Gain +/- 12dB
Internal FX A multitude of Reverbs / Delays / Other Effects (To be detailed at a later date).
Local I/O 12 x mic/line I/O, 12 x AES I/O
MADI interface 4 redundant interfaces, BNC connectivity
Optic interface Fibrecast optic
Sampling rates 48kHz / 96kHz / 192kHz
(processing capabilities halved at 192kHz)
GPI/GPO 16 as standard, expandable to 32
Video Inputs x 2, Outputs x 2
Ext Sync Wordclock, AES, Video, MADI, Optics
Dimensions 1496mm (w) x 875mm (d) x 503mm (h)
Weight 107Kg (267Kg with flightcase)
Power Requirements 90V-260V, 50-60Hz, 600VA

Processing Channel Specifications (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)
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/hishelf, 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

Processing Channel Specifications (Input Channel) (cont...)

Threshold; -60 – 0dB
 Attack; 500us – 100ms
 Release; 10ms – 10s
 Ratio; 1:1 – 50:1
 Compressor Single or multiband (3-band)
 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
 Gate on/off
 Threshold; -60 – 0dB
 Attack; 50us – 100ms
 Hold; 2ms – 2s
 Release; 5ms – 5s
 Range; 0 - 90dB
 Key; Any source
 Key listen
 Freq/width; 20 – 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
 I to +10dB

Processing Channel Specifications (Aux\Group\Matrix Output)

Name User-defined / Presets
 Phase Normal / Reverse
 Digital Trim -20 to +60dB
 Delay >1 sec (coarse & fine control)
 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/hishelf, hi/hishelf)
 on/off
 Freq; 20 – 20kHz
 Gain; +/- 18dB
 Q: 0.1 -20 (parametric) / 0.10-0.85 (shelf)
 Dynamic Eq on/off

Processing Channel Specifications (Aux\Group\Matrix Output)

Over/under
Band on/off
Threshold; -60 – 0dB
Attack; 500us – 100ms
Release; 10ms – 10s
Ratio; 1:1 – 50:1
Compressor Single or multiband (3-band)
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
Gate on/off
Threshold; -60 – 0dB
Attack; 50us – 100ms
Hold; 2ms – 2s
Release; 5ms – 5s
Range; 0 - 90dB
Key; Any source
Key listen
Freq/width; 20 – 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
l to + 10dB

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