

## 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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