

SD8 TECHNICAL SPECIFICATIONS

General Specifications

Faders

37 x 100mm touch-sensitive, motorised

Screens

1 x 15" (38cm) LCD high - resolution touch screen

Meters

38 x 20-segment LED bargraph

Input Channels

60 Mono or Stereo channels

Busses

24 Mono or Stereo busses + LR master

Solo busses

2 stereo busses

Matrix

12 x 12 matrix (additional to busses above)

Control Groups

12, selectable for VCA-style, Moving fader, Mute Group

Graphic Eq

12 x 32-band, Gain +/- 12dB

Internal FX

6 Stereo FX processors

Local I/O

8 x mic/line I/O, 8 x AES I/O (4 stereo pr)

MADI interface

2 redundant interfaces, 75 ohm BNC connectivity

Optic interface

Optocore (Optional factory fit only)

MIDI interface

In / Out / Through

VGA port

DB-15 mini-female (1024 x 768 resolution)

USB ports (3)

USB 2

Light connection (2)

XLR3 1.2 - 12V

Ext Sync

Word clock, AES, MADI, Optics

Headphone

TRS unbalanced / 8-600 ohms - 1/4 inch Jack

Dimensions

1347mm (w) x 811mm (d) x 254mm (h)

Weight

71.3Kg (149.3Kg with optional flightcase)

Flightcase (Optional) Dimensions

1517mm (w) x 1133mm (h) x 452mm (d)

Power Requirements

90-264 VAC, 47-63Hz Auto Sensing. 230VA typical, 295VA peak (meters full, faders moving)

Redundancy

Internal PSU x 2

Audio Specifications

Sample rate

48kHz or 44.1kHz

Processing delay

2ms typ (60 stereo channels, stage input through L-R buss to stage output)

Internal processing

Up to 40-bit, floating point

A>D & D>A Converter Bit Depth

24-bit

Frequency response

+/- 0.6dB (20Hz - 20kHz)

THD

<0.05% @ unity gain, 10dB input @ 1kHz

Channel Separation

Better than 90dB (40Hz - 15kHz)

Residual output noise

<90dBu typ (20Hz - 20kHz)

Microphone Input Equivalent Noise

Better than -126dB

Maximum Output

+22dBu

Maximum Input

+22dBu

Processing Channel Specifications ***Input Channel***

Name

User-defined / Presets

Channel Selection

Mono / Stereo

Input Routing

Main & Alternate Input

Analogue Gain

-20 to +60dB

Phase

Normal / Reverse

Digital Trim

-40 to +40dB

Delay

>1.3 sec (coarse & fine control)

LPF

20 – 20kHz, 24dB / Oct

HPF

20 – 20kHz, 24dB / Oct

Insert A

(pre eq/dyn) On/off

Insert B

(post eq/dyn) On/off

Equalisation

4 band PEQ

(hi & lo bands switchable shelving or bell)

Freq; 20 – 20kHz

Gain; +/- 18dB

Q: 0.1 -20 (parametric) / 0.10-0.85 (shelf)

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

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

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 Specifications ***Aux / Group / Matrix Output***

Name

User-defined / Presets

Phase

Normal / Reverse

Digital Trim

-20 to +60dB

Delay

>1.3 sec (coarse & fine control)

LPF

20 – 20kHz, 24dB / Oct

HPF

20 – 20kHz, 24dB / Oct

Insert A

(pre eq/dyn) On/off

Insert B

(post eq/dyn) On/off

Equalisation

4 band PEQ

(hi & lo bands switchable shelving or bell)

Freq; 20 – 20kHz

Gain; +/- 18dB

Q; 0.1 – 20 (parametric) / 0.10 – 0.85 (shelf)

Compressor

on / off

Threshold; -60 – 0dB

Attack; 500us – 100ms

Release; 10ms – 10s

Ratio; 1:1 – 50:1

Gain; 0 – 40dB with Autogain option

Link; any channel / buss

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

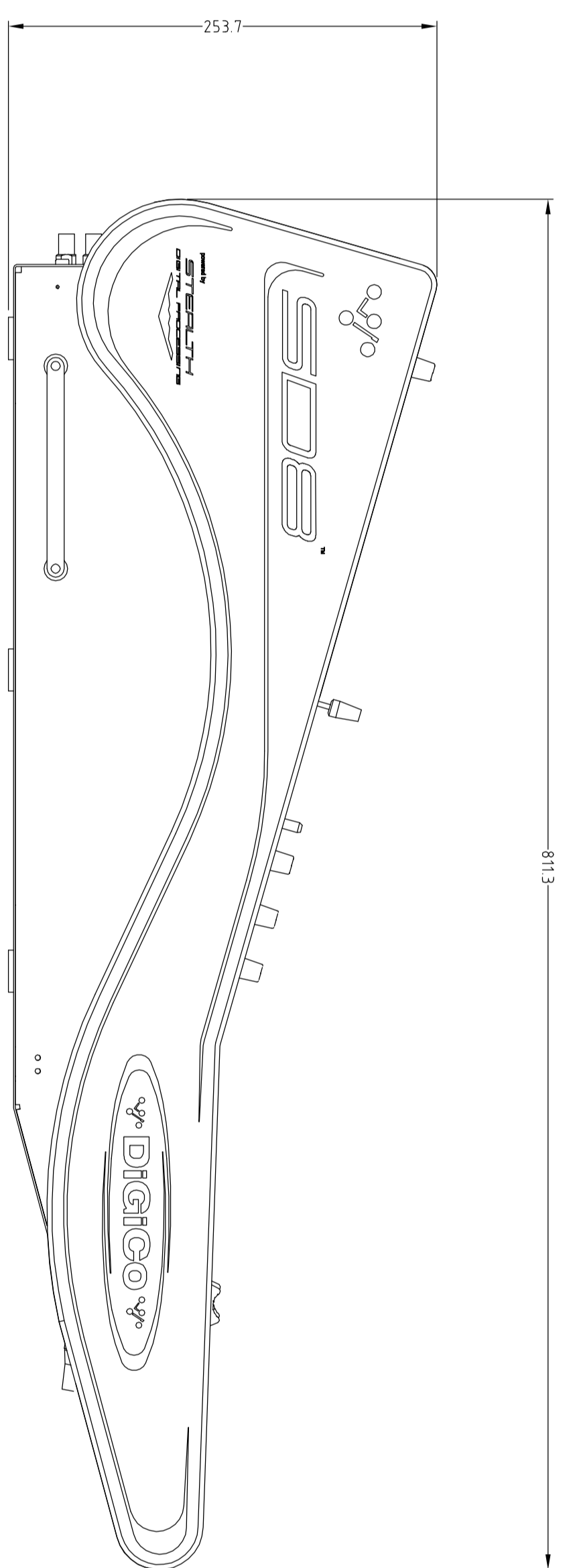
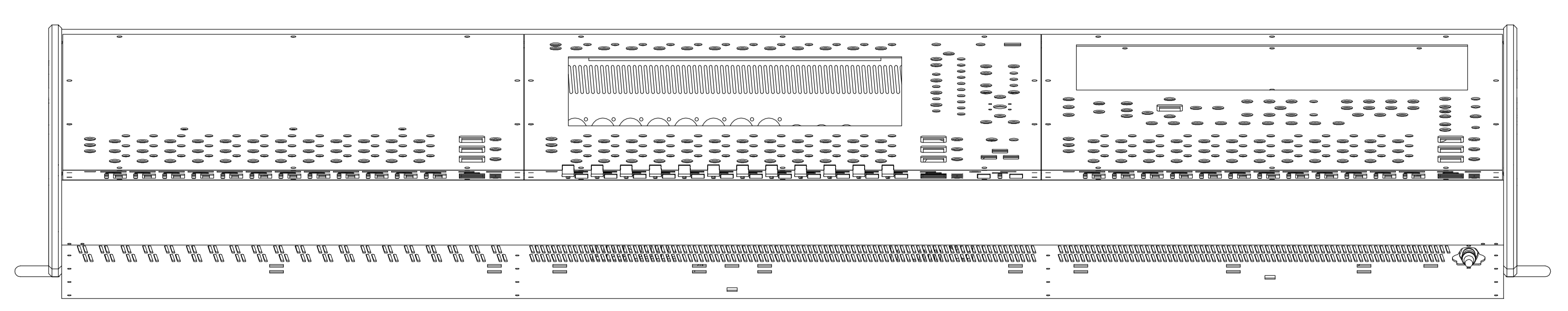
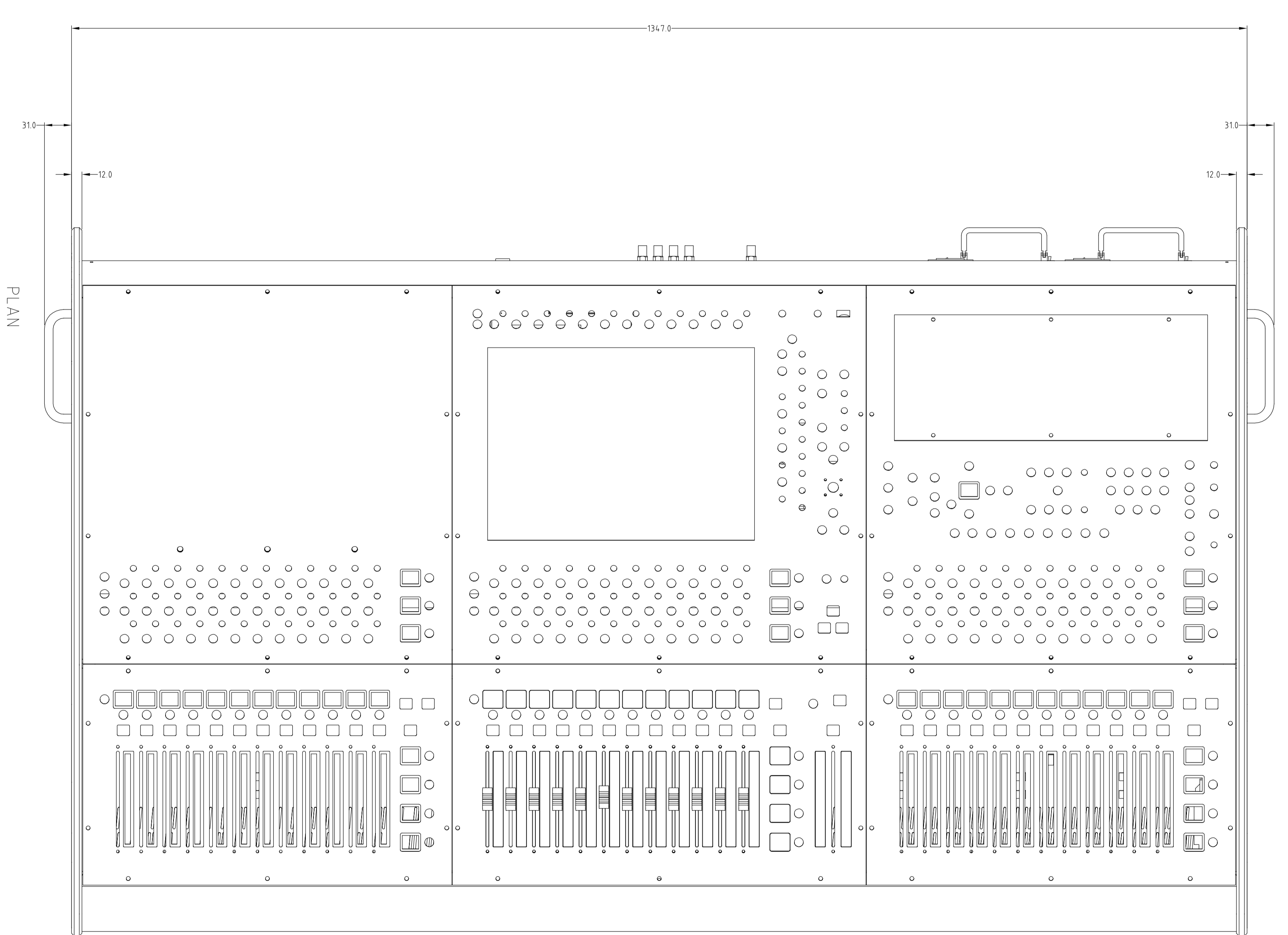
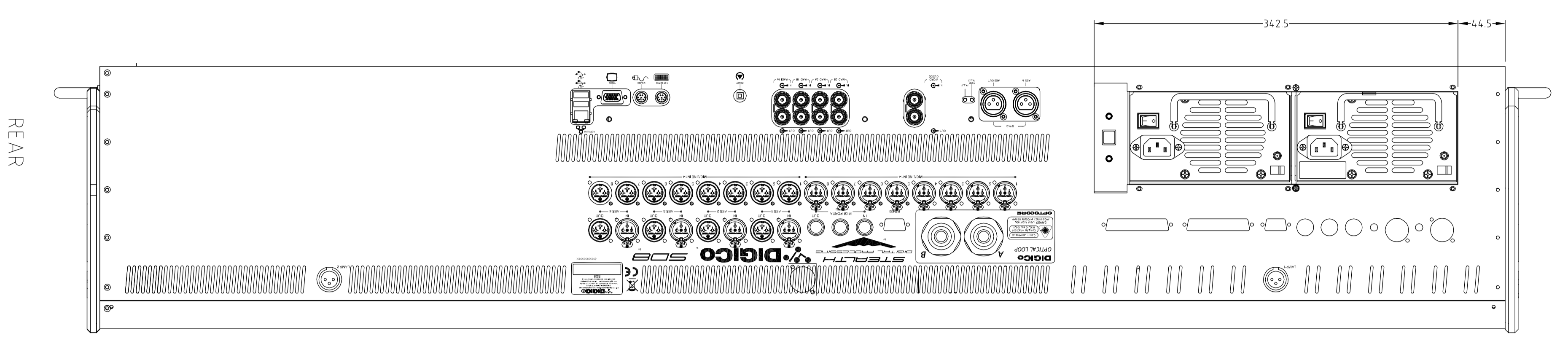
Output Routing

Outputs, Insert A, Insert B, FX

Fader

100mm motorised fader
∞ to + 10dB

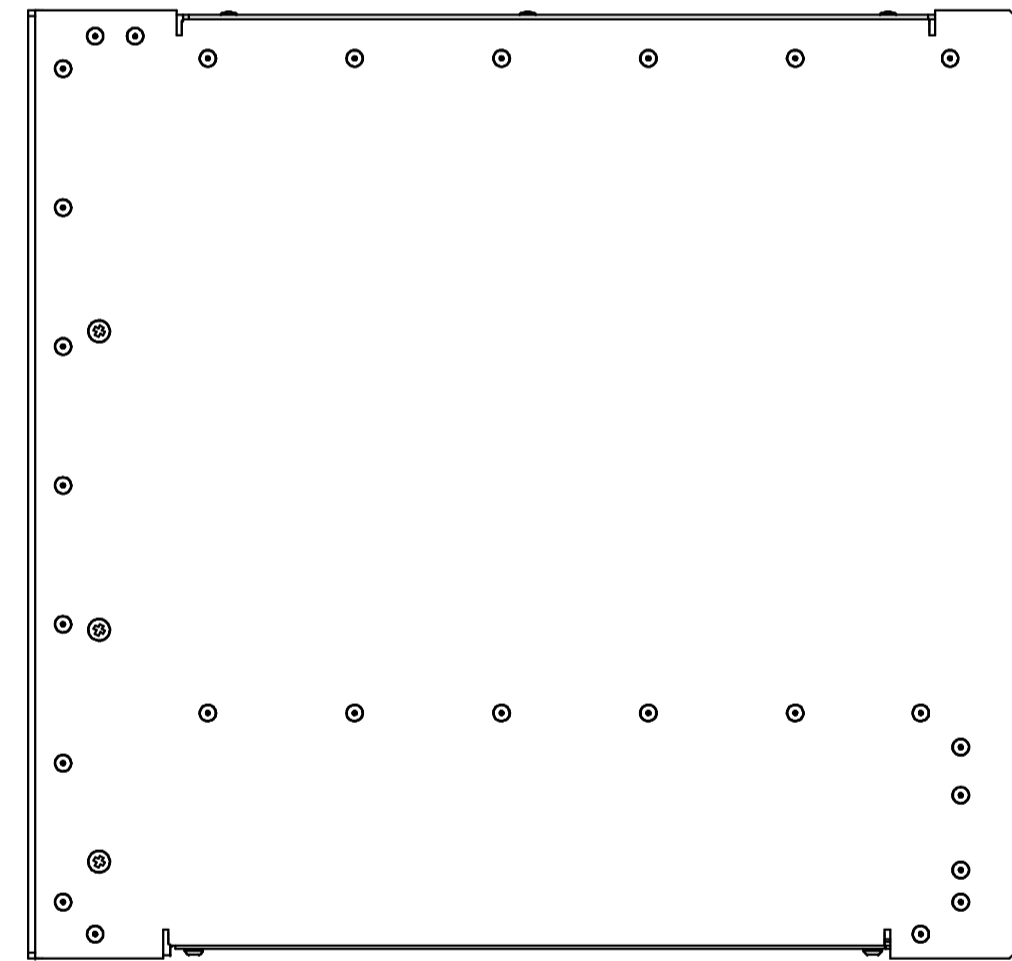
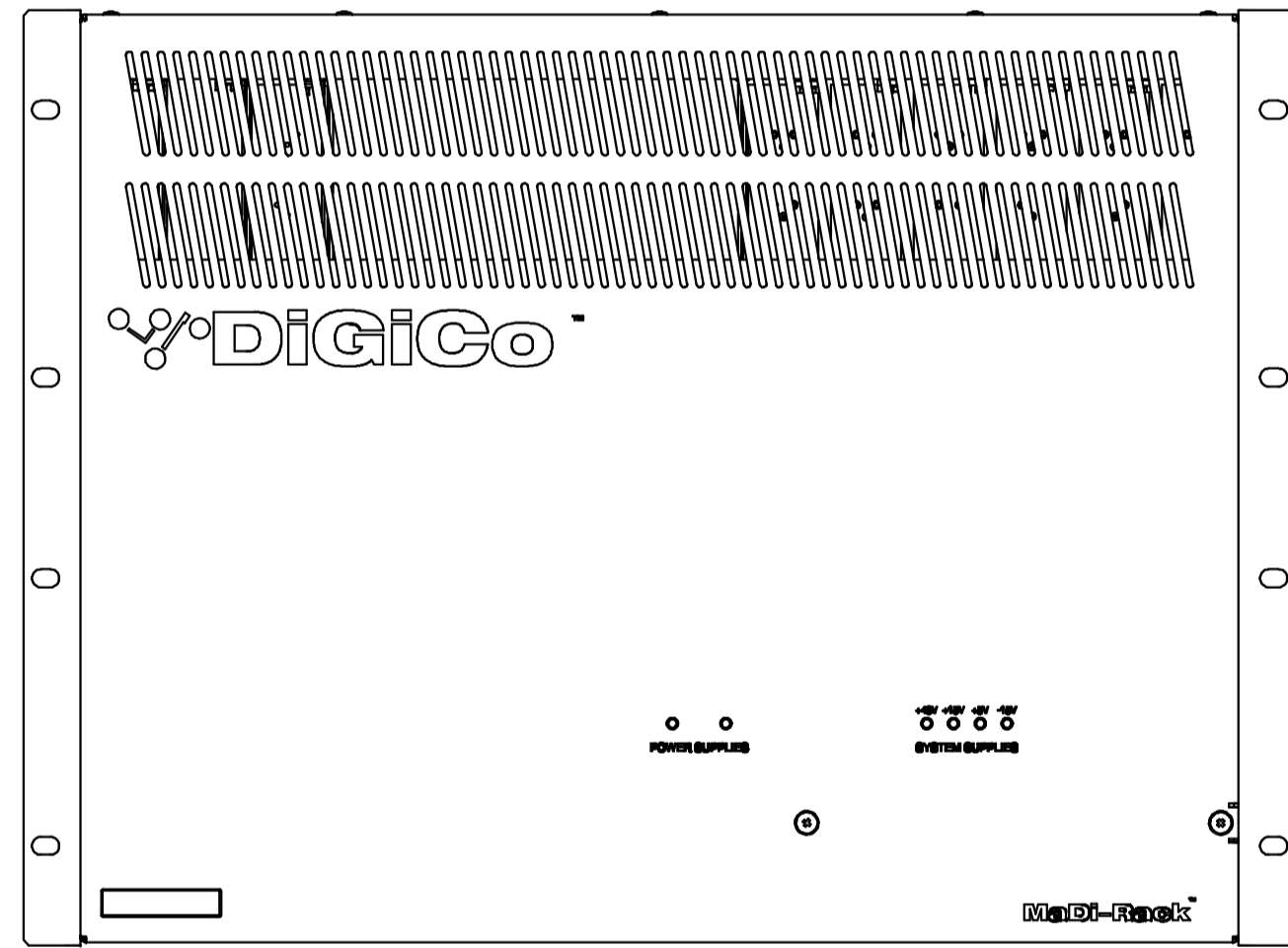
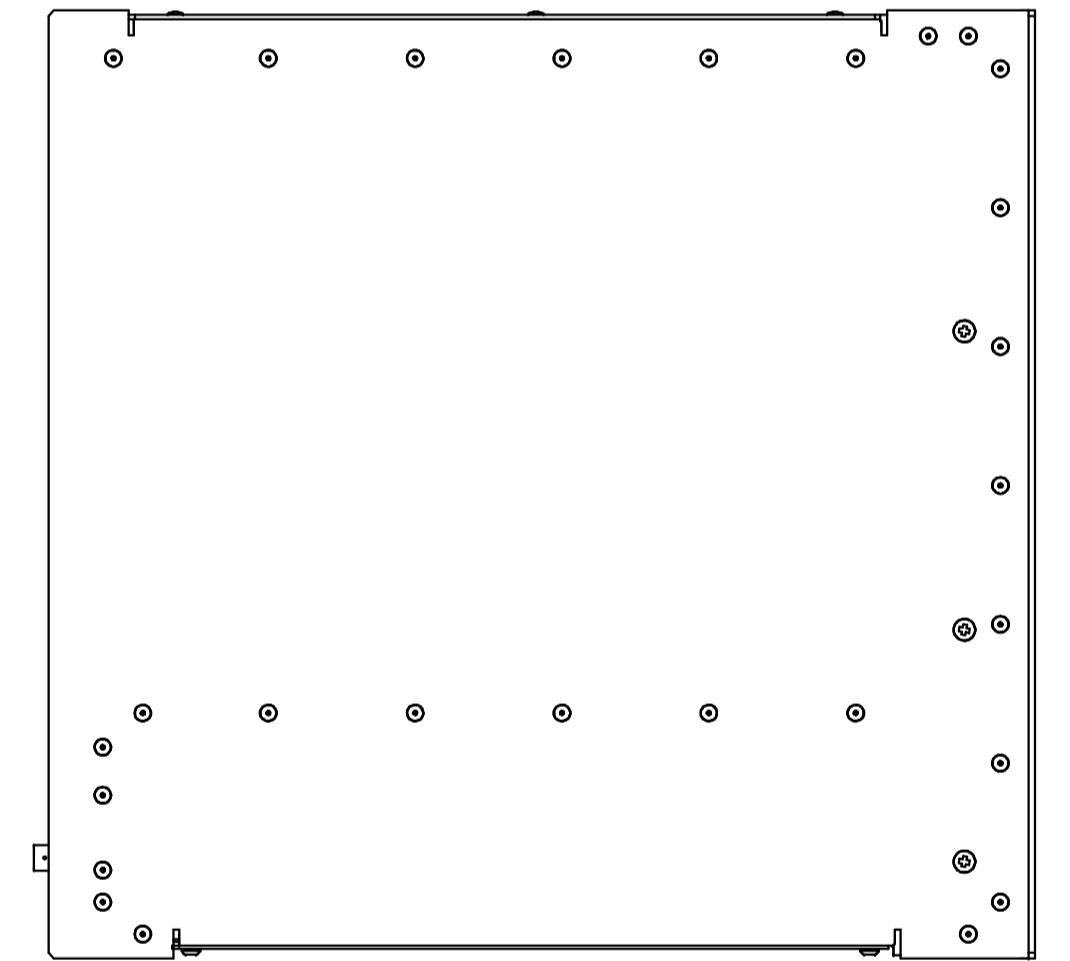
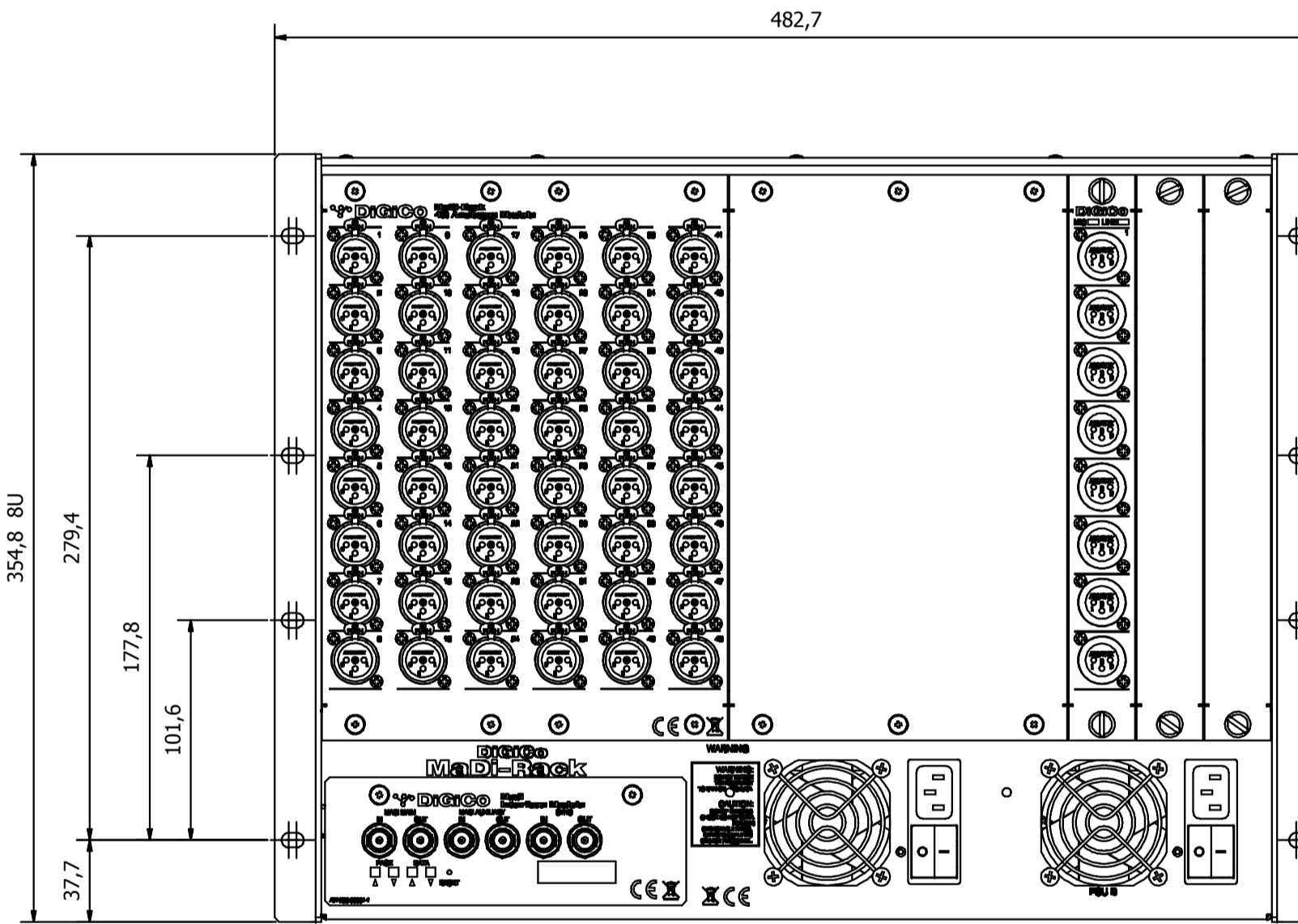
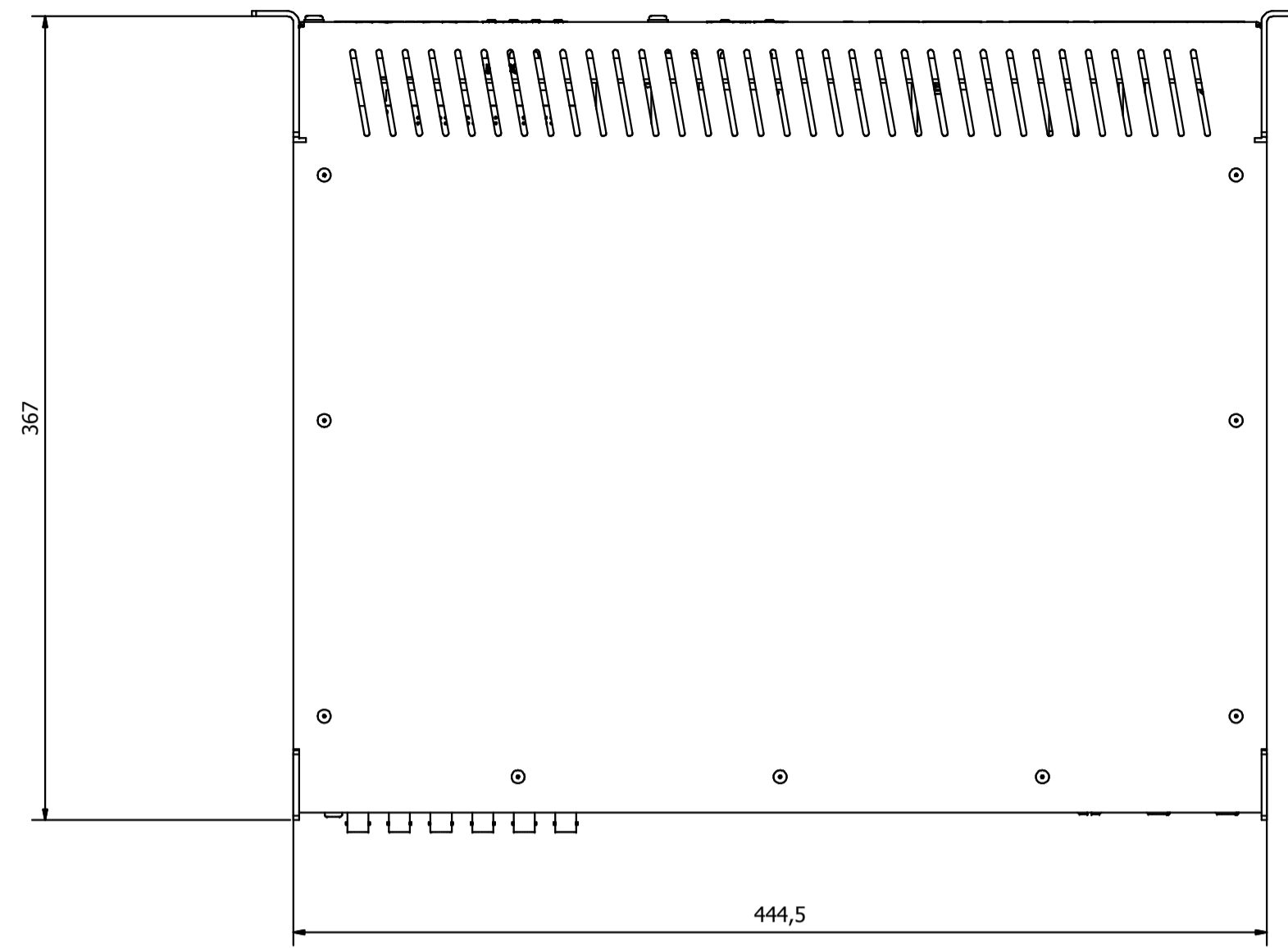
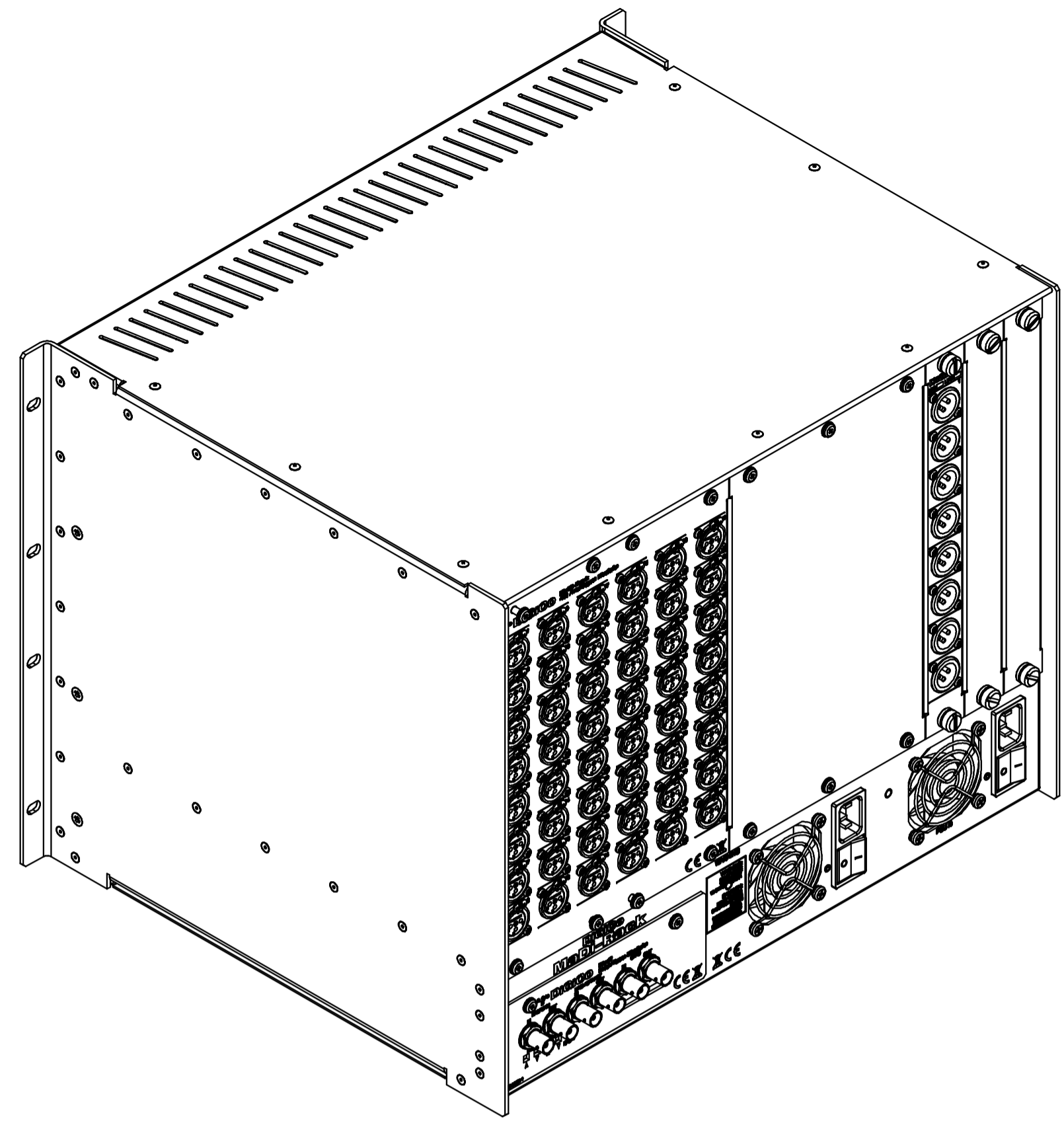
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MODEL: S08
 DATE: 11/19/98
 DRAWN: J. B. BROWN
 CHECKED: J. B. BROWN
 APPROVED: J. B. BROWN

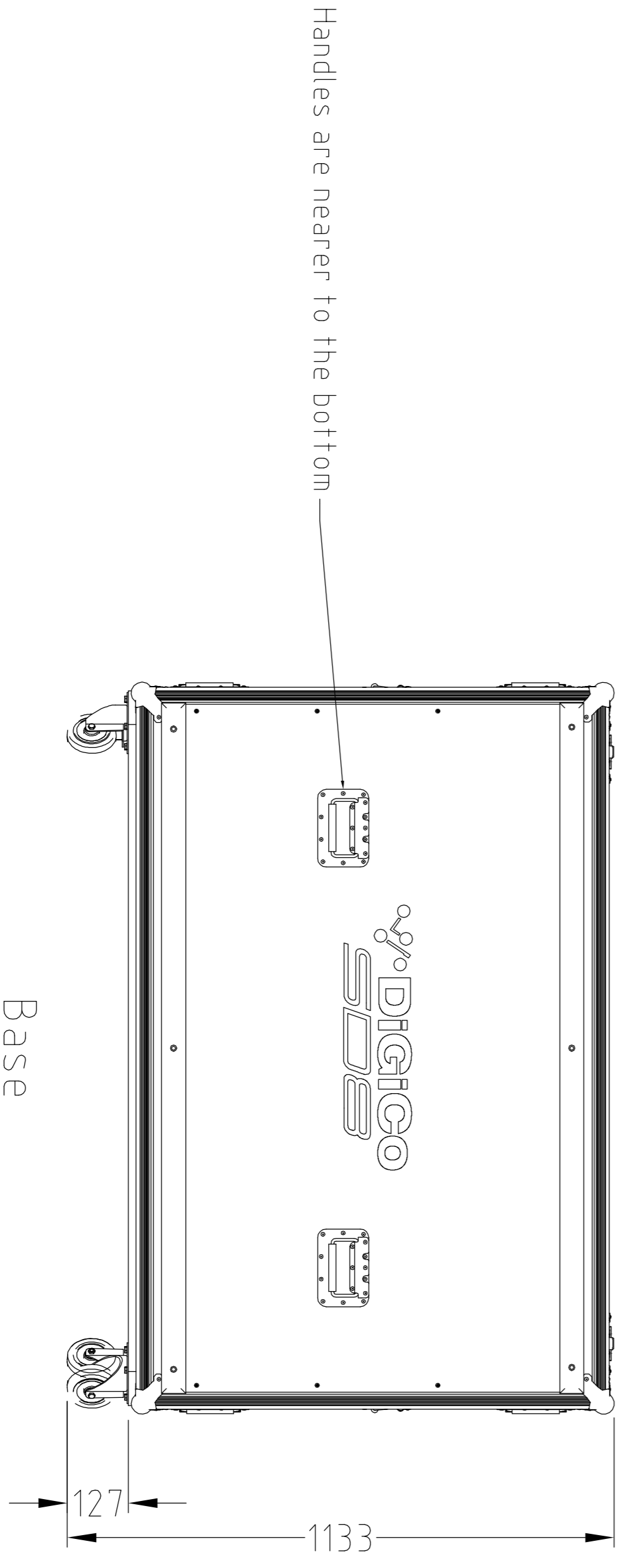
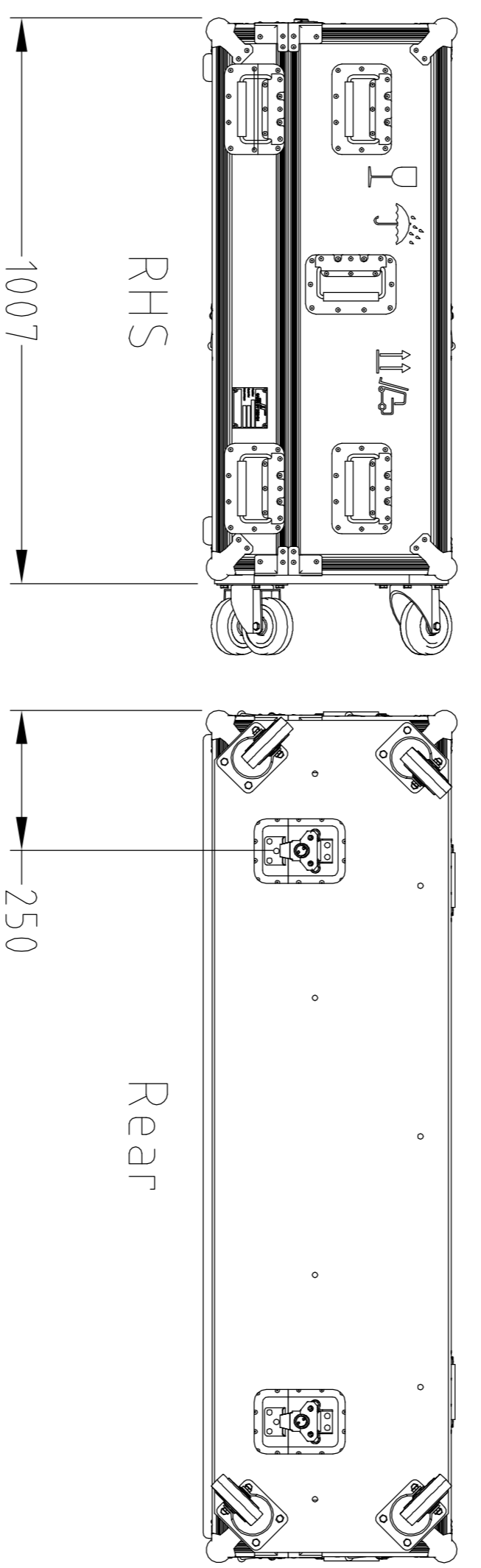
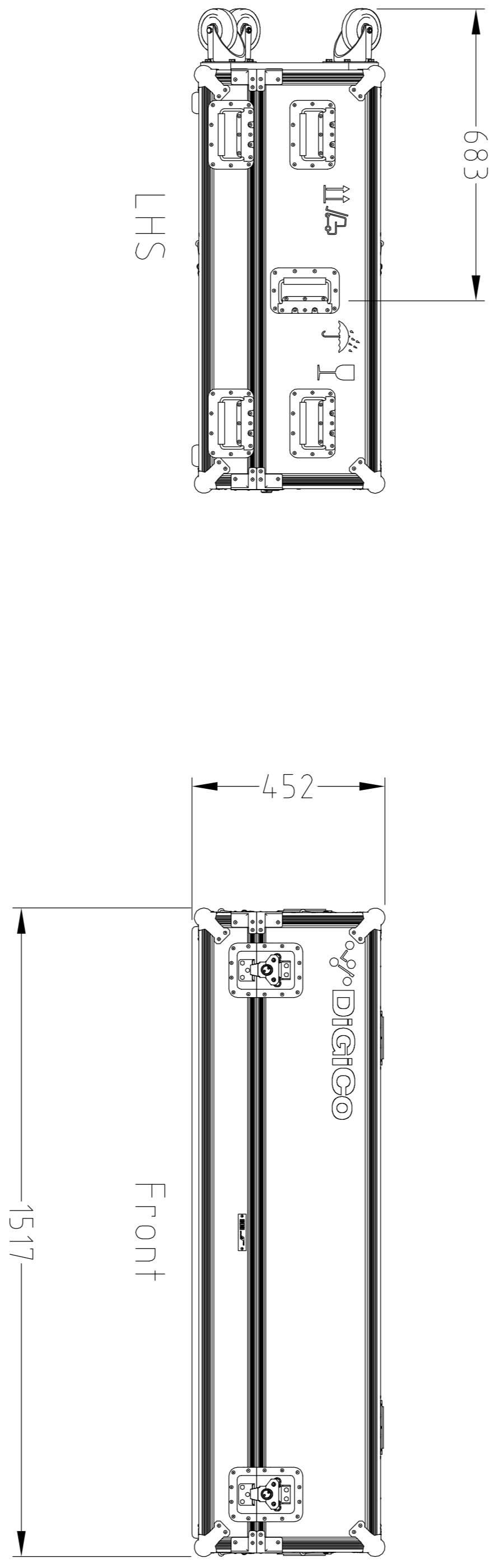
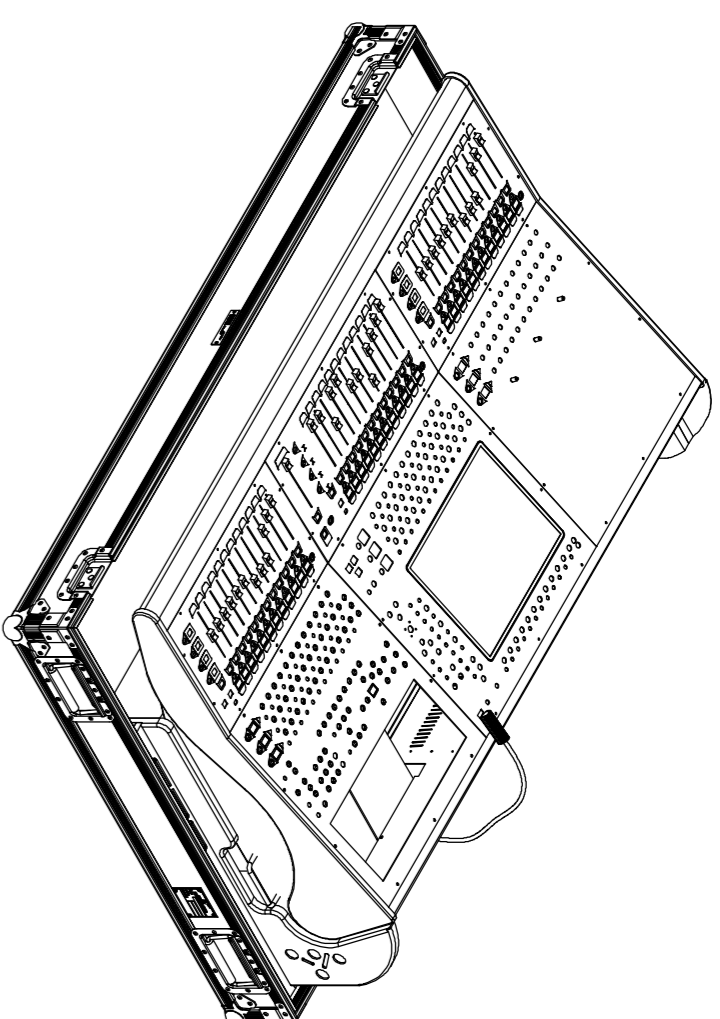
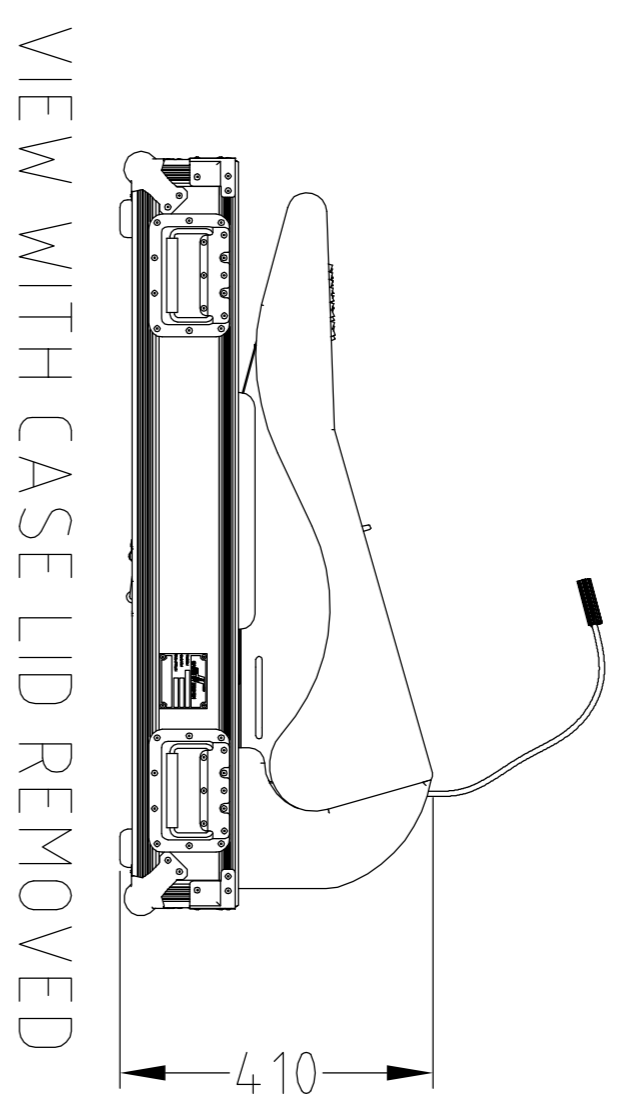
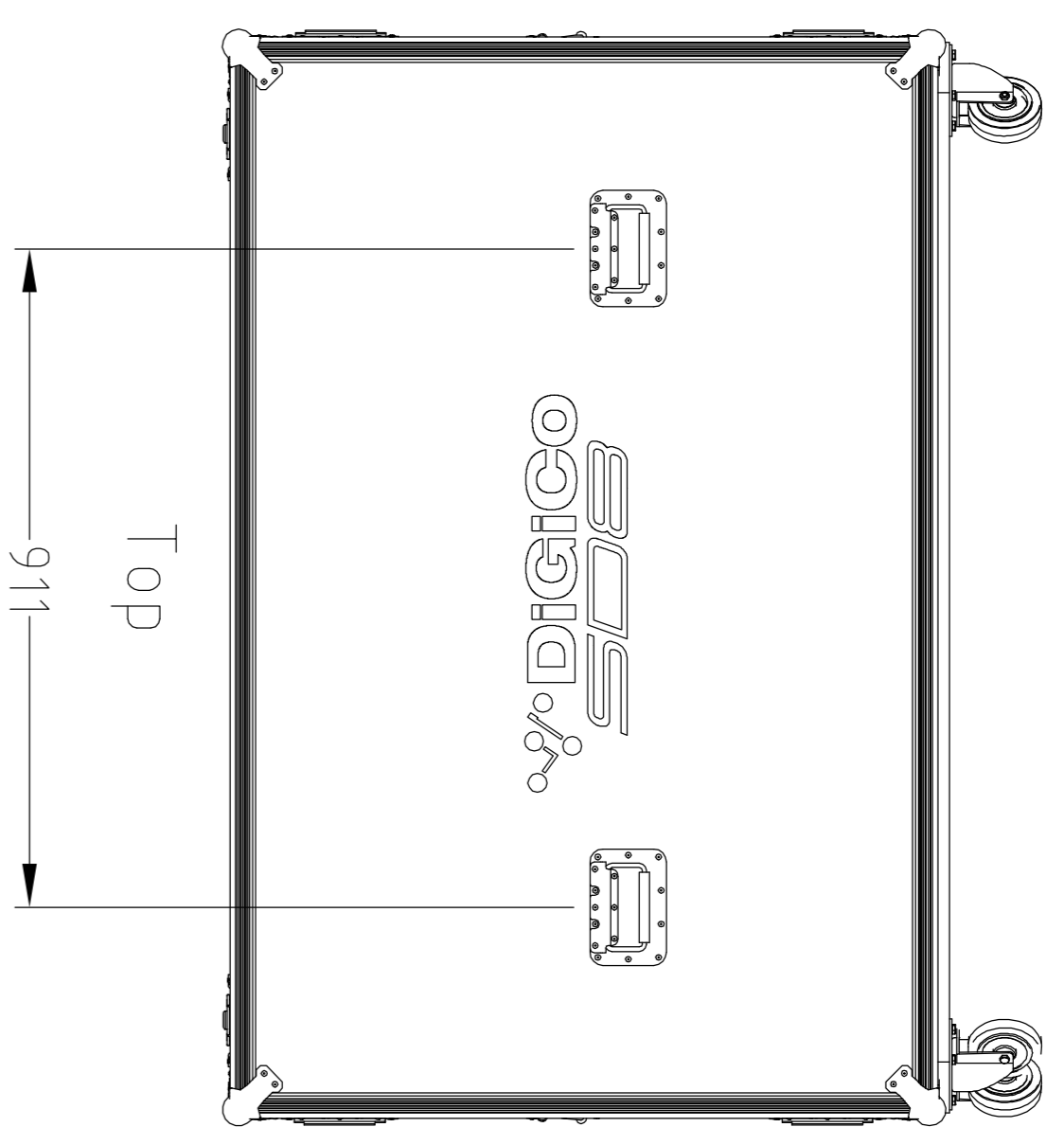
TECHNISCHE ANLEIJSSTELLUNG Technische Zeichnung Projekt: S08 Zeichnung: S08 Blatt: 1/1		PROJEKT S08		ZEICHNUNG S08		BLATT 1/1	
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NOTES
1. APPROXIMATE WEIGHT (CONFIGURATION DEPENDANT) 25 kg.

STATUS: PRE-PROD	INSPECTION CLASS: FULL	DIGICO PART NUMBER: X-MADI-RACK-UK	DRAWN BY: C.H.	DATE: 10.10.08	MATERIAL: N/A
DWG FILE NUMBER: AS-115-00011-1-G_1dm		DATE: 10.10.08	CHECKED:	FINISH:	SCALE: 1:2
PROJECT: MADI RACK UK		DESIGNED ON: 10.10.08	TITLE: MADI UK RACK		SHEETS: 1
GENERAL TOLERANCE: ± 0.1		PROJECT: MADI RACK UK	DRAWING NUMBER: A0 AS 115-00011 1		
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LHS

RHS

NOTES
 TYPE: 2 PART FLIGHT CASE, WITH REAR CABLE CONNECTOR SPACE AND 4 CASTORS.
 CASE: HIGH PRESSURE LAMINATE, COLOUR BLACK.
 EXTERIOR: GOLD ANODISED EXTRUSIONS AND SCREEN PRINTED GOLD
 FITTINGS: PEHM
 INTERIOR: PART FOAMED AND PAINTED
 LOADED WEIGHT: 14.93 kg
 NOTE DATA TAKEN FROM MORE THAN ONE SOURCE.

STATUS: PRODUCTION		INSPECTION CLASS: FC-SD8		DIGICO PART NUMBER: 289-00001-1-A		DRAWING BY: S		MATERIAL: N/A	
DRAWING FILE NUMBER: 289-00001-1-A		DATE: XXX		PRODUCT: SD8 FLIGHTCASE		CHECKED: S		FINISH: N/A	
GENERAL TOLERANCE: ± 0.5		X ± 0.2		X ± 0.1		X ± 0.2		TITLE: OUTLINE DRAWING	
X ± 0.2		X ± 0.1		X ± 0.2		X ± 0.1		SCALE: 20:1	
X ± 0.2		X ± 0.1		X ± 0.2		X ± 0.1		DRAWING NUMBER: A1	
X ± 0.2		X ± 0.1		X ± 0.2		X ± 0.1		SHEETS: 1	
X ± 0.2		X ± 0.1		X ± 0.2		X ± 0.1		OF: 1	