

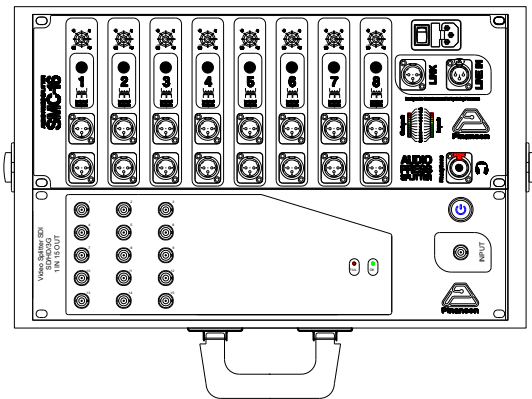
Tech Data

SIGNAL DISTRIBUTION

Press Splitter + Digital Video Splitter

SVD 15 + SMC 16

FLIGHT CASE FORMAT



Description

- **Inputs:**
 - Video: 1 BNC 75 Ω
 - Audio: 1 XLR-F
- **Outputs:**
 - Video: 15 BNC 75 Ω .
 - Audio: 16 XLR-M
- **Distribution of 3G/HD/SD-SDI video signals and line level audio signal for press.**

VIDEO SPLITTER:

- Active splitter of 1 input to 15 SDI video signal outputs.
- It provides **signal equalization** so that allows compensating losses that may happen if it is used long cable lengths and **re-clocking**.
- **Monitoring** with LED of fail and correct input signal.

AUDIO SPLITTER:

- SMC active audio splitter of 1 input to 16 line level outputs.
- **Gain per each output and monitoring** (visual and by headphones) of the signal level in groups of 2.
- **Visual monitoring** of the input level.
- Isolated outputs by **high quality transformers**.

Signal formats according to standards:

SMPTE 424M (3G-SDI)
 SMPTE 292M (HD-SDI)
 SMPTE 259M (SD-SDI)
 DVB-ASI (a 270 Mbit/s)

Bit Rate: 143 Mbit/s, 270 Mbit/s, 1.483 Gbit/s, 1.485 Gbit/s, 2.967 Gbit/s y 2.970 Gbit/s.

Formats: 625 i 50, 525 i 59.94, 720 p 50, 720 p 59.94, 1080 i 50, 1080 i 59.94, 1080 p 50, 1080 p 59.94.

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Video Splitter Description

The **SVD SDI AR/MF I:1 O:8** offers distribution of **1 input into 8 outputs of SDI digital video**.

- Provides **signal equalization** so that allows compensating losses that may happen using long cable lengths and **re-clocking**. The device operation doesn't manipulate the audio data frame.
- This splitter distributes **3G/HD/SD-SDI signals**.
- The outputs **are copies** of the input signal.
- The "**correct**" and "**fail**" input signal can be seen by LEDs named **INPUT OK** and **INPUT FAIL**.

Audio Splitter Description

The **SMC 16** is an **active splitter for press** with 1 input + 1 Link output into 16 output at line level. The outputs have output **gain control per each 2 outputs** and **monitoring** of output and input level.

This device makes it possible the distribution of **1 signal into 16 isolated (by transformer)** outputs available for the press stuff with the possibility of modify the gain of each output and control both input and output level (visual and by headphones).

SMC 16 has a very good frequency response (deviation in 20Hz-20 KHz of ± 0.3 dB) and low distortion (THD + N $\leq 0.03\%$).

Applications

When the distribution of **SDI video signal** (up to 15 3G-SDI outputs) and **line level audio** (up to 16 isolated by transformer outputs) for **EVENTS WITH PRESS**, is needed.

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Electrical Characteristics VIDEO

Connector	Input		Output	
	BNC		BNC	
Impedance	75 Ω $\pm 1\%$		75 Ω $\pm 1\%$	
Return Loss	Up to 3 GHz	>10 dB	Up to 3 GHz	>10 dB
	Up to 1.5 GHz	>15 dB	Up to 1.5 GHz	>15 dB
Number	1		8	
Amplitude	800 mVpp $\pm 10\%$			
Time up/down 20%-80%	Output			
	SD 270 Mbit/s		640 ps typ.	
	HD 1.5 Gbit/s		95 ps typ.	
	HD 3Gbit/s		95 ps typ.	
Power	Voltage		100-240 Vac	
	Connector		Screw connector 2.5 mm	
	Voltage Range		5 - 15 Vdc	
	Nominal Current		400 mA max. (VIN = 5)	
Equalization	Automatic			
Re-clocking	Automatic			
Temperature Range	0-50 °C			

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Electrical Characteristics

AUDIO

Max. Input Level	30 Hz, 1% THD+N	+ 19 dBu
	1KHz, 1% THD+N	+20 dBu
Source Impedance <i>(Balanced, +4 dBu, 1 KHz)</i>	44 k Ω	
Load Impedance <i>(Balanced, +4 dBu, 1 KHz)</i>	600 Ω	
Gain <i>(Entradas/Balanced Outputs)</i>	- ∞ a +6dB en pasos de 0.5 dB	
THD + N <i>(4dBu, 1KHz)</i>	$\leq 0.03\%$	
IMD <i>(+4dBu, 60 Hz y 7KHz)</i>	$\leq 0.03\%$	
Frequency Response <i>(+4 dBu, 20 Hz – 20 KHz)</i>	Deviation	± 0.3 dB
	SNR <i>(+ 4 dBu, 1KHz, BW 20 KHz)</i>	97 dB
CMRR <i>(4dBu, 1KHz)</i>	>60 dB	

Características GENERALES

Alimentación AC	85 – 270 VAC 47 Hz – 63 Hz Conector IEC de 3 pines.
Rango de Temperaturas de funcionamiento	0-50 °C
Dimensiones <i>(Alto x Ancho x Fondo)</i>	150 mm x 530 mm x 340 mm

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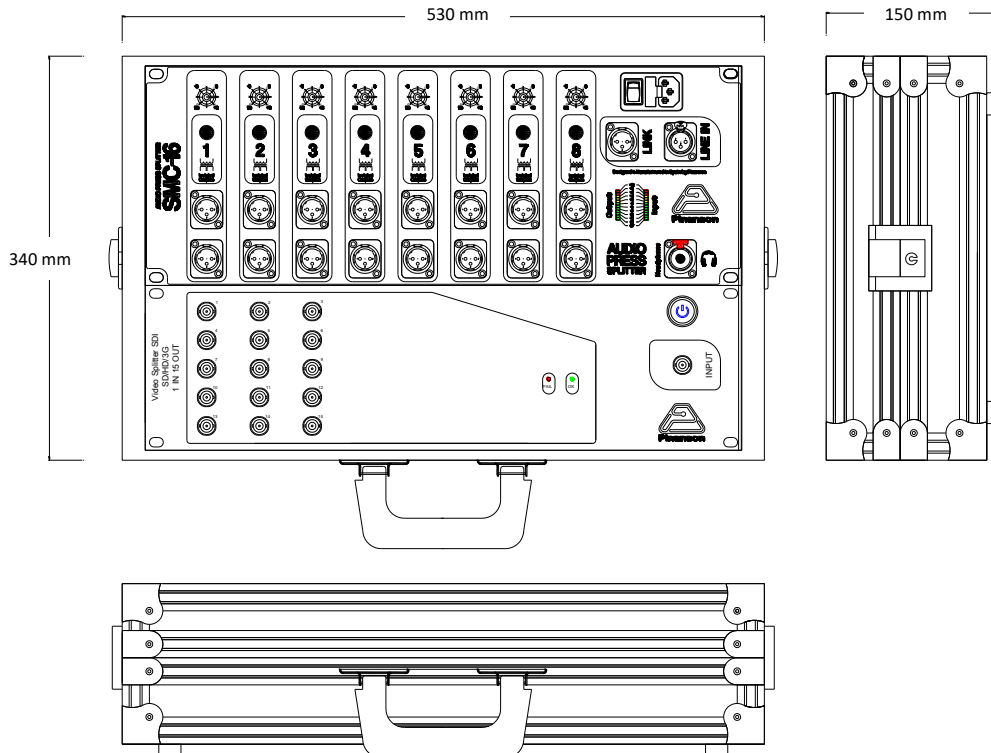
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FLIGHT CASE FORMAT

Physical Characteristics

Briefcase format (flight case)

- Extruded aluminium panel.
- Finish (panel) with laminated vinyl.
- Flight case: wood, PVC and zinc plated material.



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Tests

Audio measurements are done with *Audio Precision APx515 analyser*.



Audio
precision

Digital Video tests are done with the *RX500 rasterizer*.



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