Tech Data
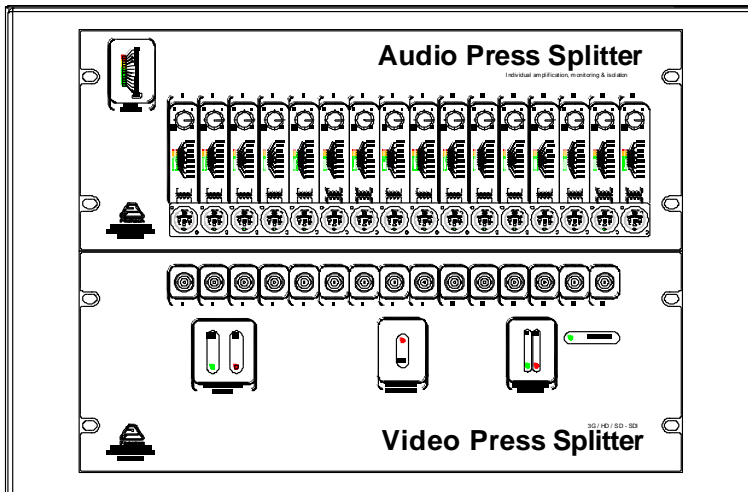
SIGNAL DISTRIBUTION
Press Splitter + Digital Video Splitter+ De-embedder
SVD 15 + SAI IT IMC 16+ DE-EMBEDDER
IP BOX FORMAT

Audio Press Splitter
Individual amplification, monitoring & isolation

Video Press Splitter
3G / HD / SD - SDI

Description

- **Input**:
  - **Video**: **1** BNC 75 Ω
- **Outputs**:
  - **Video**: **15** BNC 75 Ω.
  - **Audio**: **16** XLR-M
- **Distribution** of 3G/HD/SD-SDI **video signals** and distribution of **de-embedded audio from video signal**.
- **Outdoor stainless steel box** with IP66 with **pneumatic closing lid**.

VIDEO SPLITTER:
- 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:
- **Gain per potentiometer** -∞ a +6 dB.
- **Visual monitoring** of input level and individual output level per each output.
- Isolated input and outputs by **high quality transformers**.

DE-EMBEDDER:
- **Audio de-embedder** from **SD/HD/3G-SDI** video signal.
- It can be configured and monitored by PC through USB port.

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:15** offers distribution of **1 input into 15 outputs of SDI digital video.**
- Provides **re-clocking and signal equalization** so that allows compensating losses that may happen because of using long cable lengths. The device operation doesn't manipulate the audio data frame.
- This splitter distributes **3G/HD/SD-SDI and** signals **DVB-ASI 270 Mbit/s** signal (with four outputs available in this case) (*).
- 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 **Active SAI IT IMC 16** Splitter for Press of Pinanson offers distribution of 1 line level signal into 16 outputs.
Both the input and outputs work at line level.
The user will have the outputs with the possibility to modify the level with a potentiometer per each output and **check the input and output levels thanks to visual monitoring by LEDS**.
This is a Flight Case (briefcase) (Note 1) format to move your splitter to any event in a comfortable and safe way.
This audio distributor has the advantage of **having a transformer per each output**, ensuring total isolating from all other signals from the audio system.
The Active SAI IT IMC 16 Splitter for Press of Pinanson has a highly good Frequency Response (deviation in 20Hz-20 KHz of ± 0.3 dB), low distortion (THD + N ≤ 0.01%) and really high Signal to Noise ratio (SNR) of 98 dB.

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De-embedder
Description

The **De-embedder** placed in this set has 1 SD/HD/3G-SDI video signal. The equipment extracts the audio signal embedded in the SDI video signal. It makes the digital-analogue conversion of audio signal also, which is being ready to distribute by the SAI IT IMC splitter.
The **configuration** and **monitoring** of the audio and video signal can be made through a **USB connection and a PC** (with the suitable software).

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) from **a single video output** for OUTDOOR EVENTS FOR PRESS, is needed.

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Press Splitter + Digital Video Splitter+ De-embedder

SVD 15 + SAI IT IMC 16+ DE-EMBEDDER

IP BOX FORMAT

Electrical Characteristics
DE-EMBEDDER

Number of inputs	1	
Connector	BNC	
Impedance	75 Ω ±1%	
Return loss	Up to 3GHz	>10 dB
	Up to 1.5 GHz	>15 dB
Amplitude	800 mV$_{pp}$ ±10 %	
Signal Formats	SMPTE 424, SMPTE ST 292-1, SMPTE ST 259	
Bit Rates	270 Mbit/s, 1.483 Gbit/s, 1.485 Gbit/s, 2.967 Gbit/s and 2.9670 Gbit/s	
Embedded audio format	SMPTE 272M, 48KHz synchronous with the video	
Delay	270 Mbps	780 µs
	1.5 Gbps	445 µs
	3 Gbps	126 µs
Digital-Analogue Converter	Number of bits	24
	Sample Rate	48 KHz synchronous with the video
	Full Scale level	14-22 dBu, steps 1dB

Technosystems & Connections Architecture
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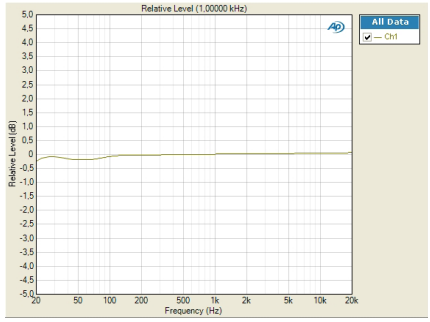## SVD 15 + SAI IT IMC 16+ DE-EMBEDDER
IP BOX FORMAT

VIDEO

	Input		Output	
Connector	BNC		BNC	
Impedance	75 Ω ±1%		75 Ω ±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 ± 10 %			

	Output	
Time up/down 20%-80%	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 V_{DC}
	Nominal Current	400 mA max. (V_{IN} = 5)
Equalization	Automatic	
Re-clocking	Automatic	
Temperature Range	0-50 °C	

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AUDIO

Max. Input Level	30 Hz, 1% THD+N	+ 19 dBu
	1KHz, 1% THD+N	+20 dBu
Source Impedance *(Balanced, +4 dBu,1 KHz)*	44 kΩΩ	
Load Impedance *(Balanced, +4 dBu,1 KHz)*	600 ΩΩ Ω	
Gain *(Entradas/Balanced Outputs)*	- ∞ a +6dB Stpes of 0.5 dB	
THD + N *(4dBu, 1KHz)*	≤ 0.002%	
IMD *(+4dBu, 60 Hz y 7KHz)*	≤ 0.003%	
Frequency Response *(+4 dBu, 20 Hz – 20 KHz)*	**Deviation** ± 0.3 dB	
SNR *(+ 4 dBu, 1KHz, BW 20 KHz)*	98 dB	
CMRR *(4dBu, 1KHz)*	>90 dB	

GENERAL

|	
Power	85 – 270 VAC 47 Hz – 63 Hz Connector IEC of 3 pins.
Working Temperature	0-50 °C
Dimensions *(Height x Width x Depth)*	400mm x 600 mm x 210 mm

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Physical Characteristics

Outdoor box format with IP66

- Extruded aluminium panel.
- Finish (panel) with laminated vinyl.
- Box with IP66 protection grade (with the lid).
- Stainless steel box.
- Front lid with pneumatic closing.
- Horizontal window for cables with key lock.
- Base plate finished with suitable paint for outdoors.
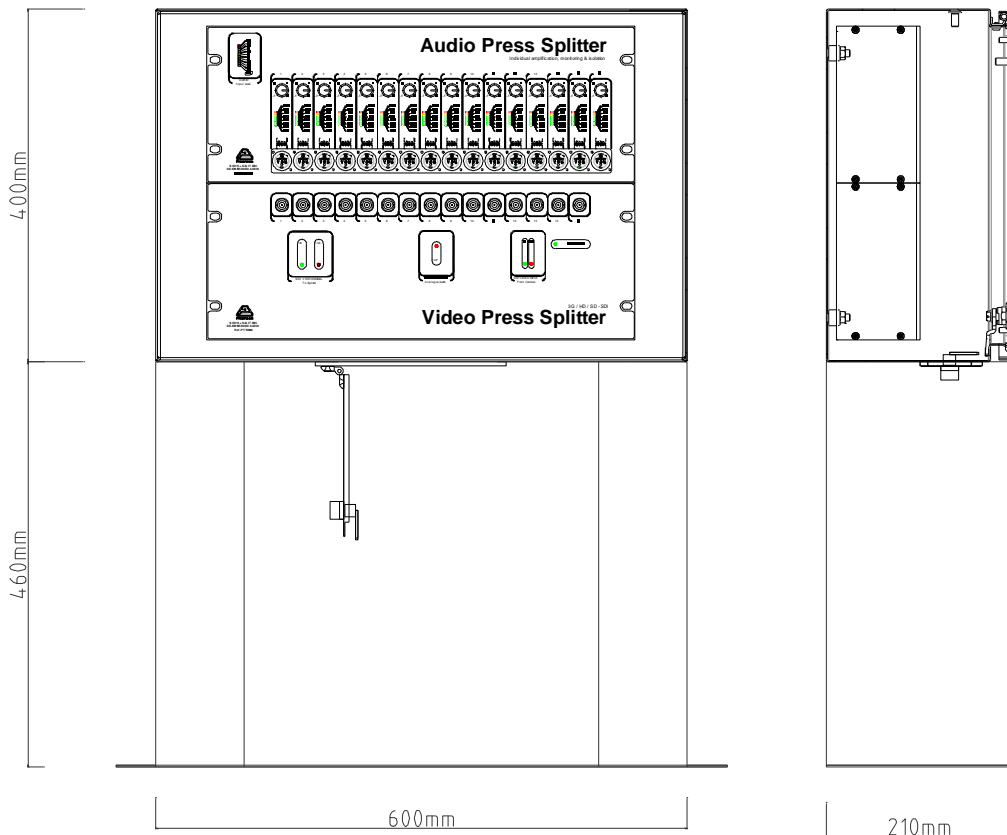
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Environment

Once the supplied equipment has reached the end of its useful life; it must be deposited at a collection point for electrical and electronic waste.

Tests

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

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

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Review: December 2015

For possible changes due to continuous product improvements; Pinanson S.L. reserves the right to change the showed data in this document without notice. The data presented here correspond to the time it was compiled.