



Screen Series SSD420

In this documentation you will find information about:

- 4-channel digital cinema amplifier
- Excellent sonic performance class-D design
- Mono block, switched mode power supplies
- Supports Barco Aura-3D™ and Dolby AtmoS™
- Booth Monitor Connection (HD15 DataPort)
- Terminal block inputs
- Barrier strip outputs
- Technical specifications

4-channel digital cinema amplifier

Stage Accompany developed the 4-channel (with four separate power supplies) SSD420 cinema amplifier to support even the most demanding (and channel consuming) 3D Sound cinema systems. The SSD420 accepts Stereo and Parallel inputs (thru terminal block and DataPort).

The SSD420 also fully supports the Barco Aura-3D™ and Dolby AtmoS™ cinema 3D Sound systems.

The SSD420 used in combination with the Stage Accompany Screen and Direct Screen Series cinema loudspeakers Stage Accompany introduces a powerful new listening experiences, with sound that truly envelops you and allows you to hear the whole picture.

Excellent sonic performance class-D design

High power and very pure signal amplification under heavy cinema conditions were the main goals in the development of the Screen Series amplifier range. These (mono block) power amplifiers are built with an excellent sonic performing class-D design for increased efficiency by decreased weight and dissipation. With an output power exceeding 700W @ 4Ω per channel, a S/N ratio of more than 110dB and a THD percentage of < 0.007% @ 1kHz (100W, 8Ω).

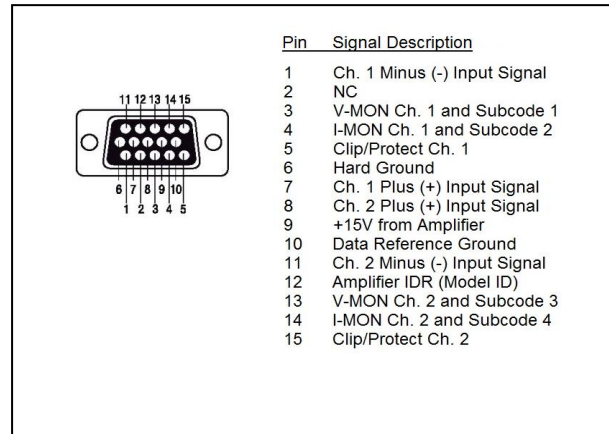
Each audio channel has its own power supply.

The SSD420 combines (sound)quality, power (bridgeable) and very low weight into one unit. The SA digital amps are among the best sounding digital amps on the cinema market!

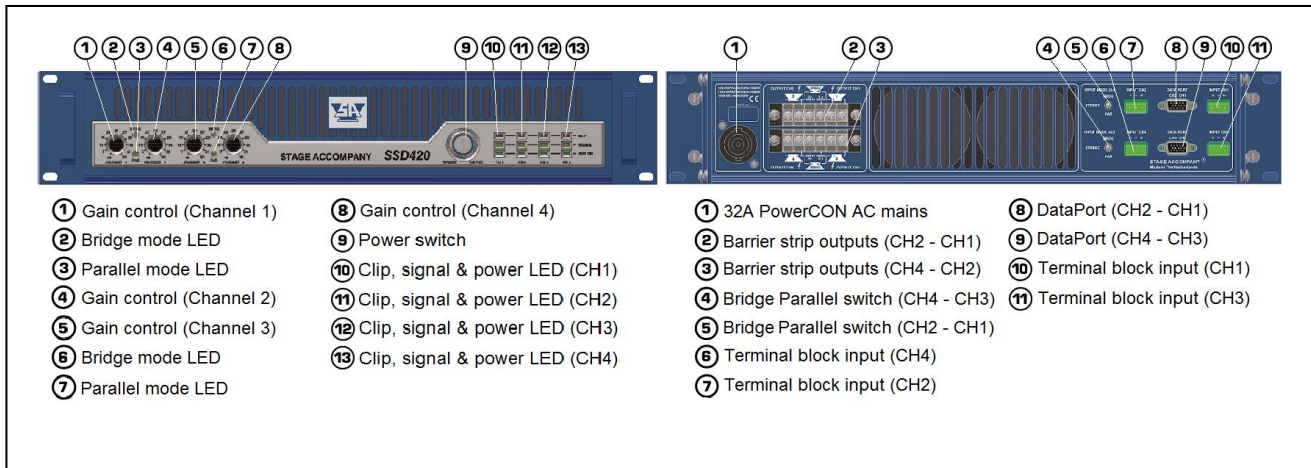
Booth Monitor Connection (HD15 DataPort)

The SSD420 can easily be connected to a cinema booth monitor through the HD15 DataPort connector. All signals for monitoring the amplifier's inputs and outputs as well as input signals and various control signals are present on this connector.

Only two more connections have to be made to the amplifier: power (Neutrik 32A PowerCON) and loudspeaker cables (Barrier strip).



Front and rear view of the SSD420



Technical specifications

Efficiency	: 92% @ full power
Max input level	: +23dBu
Input impedance	: 25k Ω
Frequency range (@ 100W into 8 Ω)	: 10Hz – 40kHz
Gain	: 26dB
Channel separation	: > 90dB @ 1kHz
Total harmonic distortion	: 0.02% 20Hz – 20kHz, Pout < Pmax/2 0.005% 20Hz – 20kHz, Pout = 1W amplifier section
Output noise	: 30uV unweighted, 20Hz – 20kHz
Damping factor	: 500 @ 1kHz, 8 Ω
Output power (@ 1kHz, < 1% THD)	: 4 x 440W @ 8 Ω 4 x 700W @ 4 Ω 4 x 1200W @ 2 Ω (short term)
Amplifier section	: flat load-independent frequency response
Audio, data & mains connections	: 4 x terminal block connector for input signal 2 x HD15 DataPort connector 2 x Barrier strip for output signal 1 x 32A PowerCON connector for mains power stated at the rear of amplifier
Mains supply voltage	: stated at the rear of amplifier
Power consumption	: 2800VA
Housing	: 19" Rack Mount, 2HU high, 440mm deep
Weight	: 13.5kg (30.0lb)
Warranty	: 3 years



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