

User Guide

# AD4.320



**STARKE**  
S O U N D

## Safety instructions

- 1) Read, follow and keep these instructions
- 2) Do not remove the cover as repairs require qualified technicians
- 3) Do not use the product near water
- 4) Do not install near any heat sources such as radiators, heat registers, stoves or amplifiers
- 5) Clean the product only with a damp cloth
- 6) Use care when lifting or moving this heavy product
- 7) Protect the power cord from being walked on or pinched
- 8) Unplug during lightning storms or when unused for long periods of time
- 9) Ensure that no objects filled with liquids, such as vases, are placed on the product

## Limited warranty

3 years from purchase date

(Save original invoice for service to be arranged through your dealer, or contact us directly if you purchased your amplifier online.)





## Set-up instructions



For 4-channel operation, set these two switches to STD (standard).

Connect your 4 input channels using either unbalanced (RCA) or balanced (XLR) cables. Channels are labeled 1, 2, 3 and 4. Set the four toggle switches to UNBAL (unbalanced) or BAL (balanced) as appropriate.



Connect your four speakers to the output binding posts: 1, 2, 3 and 4. Speaker wires can be terminated with "banana plugs" which are inserted, or stripped insulation (unscrew binding post cap, insert wire into hole on threaded shaft and tighten cap). Observe correct polarity ("+" red and "-" black).





The amplifier can be turned-on automatically by, for example, your preamp/processor by connecting a 12-volt trigger wire to TRIGGER IN. You can use TRIGGER OUT to connect a “downstream” component such as another amplifier to also be turned-on automatically. Connect the power cord to AC INPUT and plug the other end into a 120-volt wall socket. Set the rocker switch to ON to power-on the amplifier.



Your AD4.320 can also serve as a 2-channel or 3-channel amplifier, delivering greater power to 2, or to 3 channels. This is done by “bridging.” **For 2-channel operation**, first, TURN OFF THE AMPLIFIER. Then, set both switches to BRIDGE.



Connect your inputs and outputs to 1 and 3 (INPUTS can be unbalanced RCA or balanced XLR; set toggle switches accordingly and use speaker wire for OUTPUTS). Twice the power will be delivered to OUTPUTS 1 and 3. Only turn on the amp AFTER these changes are made.

**For 3-channel operation**, first, TURN OFF THE AMPLIFIER. Then, set one switch (left one in this example) to BRIDGE. Connect your inputs and outputs to 1, 2 and 3 (INPUTS can be unbalanced RCA or balanced XLR; set toggle switches accordingly and use speaker wire for OUTPUTS). Twice the power will be delivered to OUTPUT3. Only turn on the amp AFTER these changes are made.

## Operation

Vertical light on the front panel should be green. If it turns yellow, power-off, wait, then restart.





# *Starke Sound™*

## *AD4.320*

### *Sincerity and efficiency*

For true audiophile performance, Starke Sound's electronics team developed the innovative NS600 module, raising its sampling rate to 600 kHz and employing a pure analog power supply. Combining the high efficiency of class D and the warm sound of class AB amplifiers, AD4 also offers the flexibility of 4-channel or bridged 2 or 3-channel operation. AD4 is a perfect combination of usability and performance.

### *Key Features*

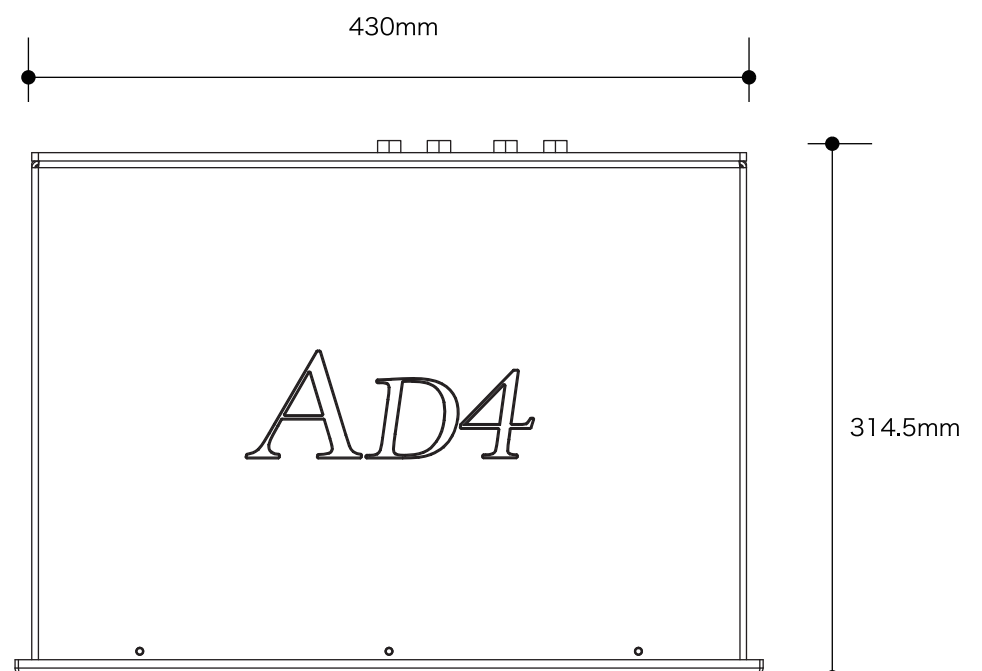
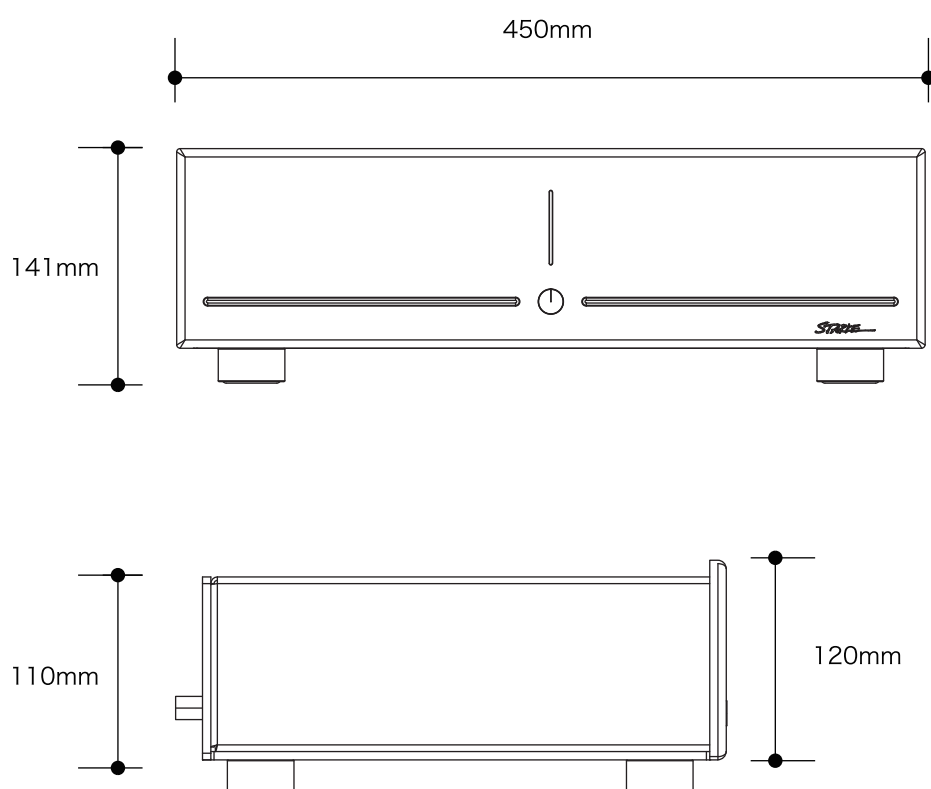
Newly developed NS600 amplifier module

Linear analog power supply

4 channels, 320 watts per channel

High sampling rate of up to 600 kHz.

Flexible 4, 3, or 2-channel output



# Technical Specifications

Output Power	225 W RMS at 8 Ω （4-channel output） 320 W RMS at 4 Ω （4-channel output） 430 W RMS at 4 Ω (BTL mode , 2-channel output) 650 W RMS at 2 Ω (BTL mode, 2-channel output)
ClassA power	None
Gain	23dB
Channel quantity	4 channels
Amplifier type	Hybrid
Frequency Response	5Hz-100KHz —1.5dB
Maximum output current per channel	16.5A/33A (Bridge)
Signal-To-Noise Ratio （SNR）	112dB, "A" weighted
THD	<0.04% at 1 kHz, at 320 W, 4 Ω    <0.08% at 20 kHz, at 320 W, 4 Ω
Input terminals	4-Channel RCA Input 4-Channel XLR Input
Input Impedance (RCA)	100KΩ
Input Impedance (XLR)	200KΩ
Input Sensitivity	2.8V
Output terminals	4 pairs beryllium copper binding post,custom made by Starke Sound
Output Impedance	0.136Ω (5 Hz to 100 kHz)
Minimum load impedance	0.8Ω
True balance circuit	Yes
Heat	114 BTU / hr
Fan noise	None
Power consumption	Standby 8W Idle 14W Maximum 1500W
Control option	12V trigger input & output
Cabinet	Aluminum
Color options	Black
Full size	W 17.7 x H 5.6 x D 12.4 inches (w/ foot&faceplate) W 450 x H 141 x D 314.5 mm (w/ foot&faceplate)
Weight	29.1 lbs(13.2kg)
Shipping size	L 21.5 x W 16.9 x H 9.1 inches L 545 x W 430 x H 232 mm
Shipping weight	34.6 lbs(15.7kg)
Warranty	3 years (from original purchase date)