

# ADA120

INSTRUCTION MANUAL  
COMPACT 60W STEREO AMPLIFIER  
TOTAL 120W CLASS-D



 **accento**<sup>®</sup>  
dynamica

## Accento Dynamica ADA120

The small and powerful Accento Dynamica ADA-120 Class D amplifier installs virtually anywhere. It produces big-amp sound while occupying minimal space on your desk or A/V cabinet. The compact size makes it an ideal choice for small areas with limited space or for those looking for a cleaner audio environment, yet still delivers crisp, vibrant sound comparable to bulky power amplifiers. This unit features the STA508 chipset that provides 60 watts of continuous power per channel (120 Watts total) into a 4 ohm load and 40 watts into an 8 ohm load.

### Features

- STA508 chipset Class-D offers Audiophile-quality sound reproduction
- Compact cabinet that fits almost anywhere for modern style & minimal decor impact
- Ultra-quiet 103 dB signal to noise ratio (A-weighted)
- 40Wrms continuous into an 8 ohm load, 60Wrms continuous into a 4 ohm load
- Front-mounted gold-plated 3.5 mm input and rear gold-plated RCA inputs
- Quad mini gold-plated binding posts accept bare wire or banana plugs
- 6.35mm Headphone gold-plated output socket
- Compact extruded aluminium heat sink enclosure
- Thick, stylish black-anodized aluminium face plate
- Simple controls: Volume pot with Off position
- Short circuit, thermal, and overload protection

### Includes

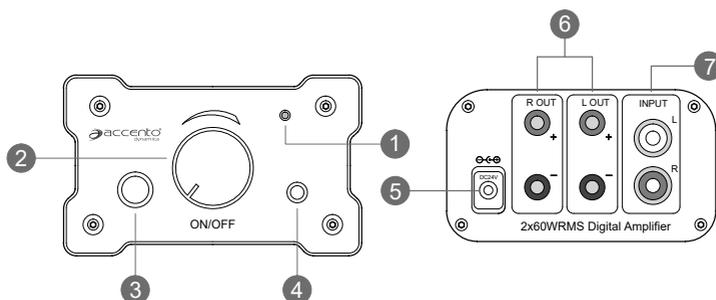
- ADA120 Amplifier 2x 60Wrms Stereo Class D
- 24V @ 5A switch mode power supply 240Vac

### Safety Instructions

- To prevent fire or electrical hazard do not disassemble this product.
- Do not expose the unit to water or moisture.
- Do not place liquid on or close to unit.
- Do not place unit on or near an open flame or heat source.
- Keep product free from dust and debris.
- Place unit on a stable and level platform.
- Do not place heavy items on top of unit.
- Do not use excessive force when pushing the unit buttons.
- Do not attempt to pull the power cord when removing it from power outlet.
- Do not use damaged or defective power cables.
- Unplug the power cable if the unit is not in use.
- Clean with a damp cloth only.

## Connection

Connection and operation of the ADA120 is simple and straight forward. Please read the following instructions prior to powering on and connecting your amplifier to speakers.



- 1. Power LED.** Blue LED indicates the unit is receiving power and is fully operational.
- 2. Power / Volume control.** This control turns on the unit and adjusts the volume level of the amplifier. When the unit is turned on the power LED will become fully illuminated. To turn the unit off, turn the control fully counter clockwise until it “clicks” to the off position. It is normal for the power LED to slowly dim and then go completely out when the unit is first turned off.
- 3. Headphone Jack.** The ADA-120 also doubles as a headphone amplifier that will drive any headphone easily and delivers colossal sound stage and effortless dynamic range. The 1/4” stereo jack allows connection of larger home and studio-style headphones. An adapter is available so that smaller 3.5 mm personnel style headphones can be used. Note: When headphones are plugged into the headphone jack the speaker output connections are disconnected.
- 4. 3.5 mm Audio Input.** The unit features a convenient front mounted 3.5 mm stereo input for quick connection of iPods, MP3 players, and other portable audio devices. Note: When a device is plugged into the 3.5 mm audio input the rear mounted RCA input jacks are disconnected. This allows the user to permanently connect a device to the rear RCA audio inputs and switch to a portable device by simply plugging into the front mounted input.
- 5. Power Connection.** The ADA-120 operates on 24VDC and MUST be used with a power supply that can provide at least 5A. A world compatible (100V-240V) switch mode power supply is included with the unit. The power connection on the unit is a 2.5mm x 5.5mm jack with center pin being positive. Note: If an inappropriate power supply is used and the unit is damaged, the warranty will be voided.
- 6. Speaker Outputs.** The speaker output connections utilize high current binding posts that are spaced on 4mm centers and are compatible with standard double banana plug connectors (sold separately). The connections are colour coded for easy polarity identification. Screw-on connectors will accept 10AWG-18AWG.
- 7. RCA-Type Audio Input.** RCA-type line level input for permanent connection of larger devices such as CD players, PCs, and DVD players. An RCA to 3.5 mm adapter is available for added connection flexibility. Note: When a device is plugged into the front mounted 3.5 mm input, the RCA input jacks are disconnected.

## Accento Dynamica ADA120

Accento-Dynamica ADA-120 Class D digital amplifier is everything you need in a mini amp, delivering the performance of larger Hi-Fi gear, and thanks to the space-saving design, it fits and installs practically anywhere to deliver the power of a monster amplifier, but in a tiny package. The ADA120 tackles the toughest speaker loads with ease while delivering the sound quality and low distortion of a conventional Class AB amplifier. The power-chip delivers 60 watts (RMS) per channel of efficient power into an 4 ohm load (up to 120 watts total), and 40 watts (RMS) into 8 ohms continuously, providing powerful bass and clear output that keeps on going, even with the most demanding speakers.

With the ADA120 amplifier, you get the most power possible from the smallest footprint imaginable. At under 90mm wide, 50mm tall, and 160mm deep, the ADA120 delivers more power per cubic cm than any other mini amplifier. All this is thanks to the revolutionary, cool-running Class D digital amplifier technology and the extruded aluminium heatsink case. The robust external switching power supply hides out of sight, and can supply high current with even higher peaks, the ADA120 can easily drive large or inefficient speakers.

The ADA120 amplifier delivers the features you expect in a much more expensive amplifier, at a fraction of the size and price. The housing is black-anodized aluminium, with a thick machined faceplate and a silky-smooth volume control. The rear panel features high-quality, gold-plated RCA inputs and shielded, gold-plated 5-way binding posts that accept any type of speaker cable. A high-current DC power jack is also used to ensure maximum power transfer to the amp. On the front panel, there's a second 3.5mm audio input jack, as well as a 1/4" headphone jack that receives its signal from a separate, high-quality headphone amplifier stage controlled by the main volume knob. (3.5 mm to 1/4" adapter required.)

## Specifications

Power Output:	60 watts RMS x 2 into 4 ohm 40 watts RMS x 2 into 8 ohm
Total Harmonic Distortion:	<0.01% @ 30W per channel <10% @ 60W per channel (4 Ohm)
Speaker Impedance:	4 ohm to 8 ohm
Signal-to-Noise Ratio:	103 dB, A weighted
Input Impedance:	10k ohms (minimum)
Input Sensitivity:	680 mV
Frequency Response:	20-20,000 Hz
Channel Separation:	95 dB
Efficiency:	>85%
Dynamic Range:	>100 dB
Electrical Requirement:	24VDC @ 5A center pin positive
Dimensions:	50mm(H) x 86mm(W) x 160mm(D)
Weight:	540g