

VINCI8S
Instruction manual

VINCI85



Safety first!

- Please check the packing for any kind of damage on reception of the goods. In case of a damaged carton, please contact your dealer before opening the carton.
- !!!! Danger !!!! Exposure to high sound levels may cause a permanent hearing loss. Individuals vary considerably to sound pressure level induced hearing loss but nearly everyone will lose some hearing if exposed to high sound pressure levels for a sufficient amount of time. Therefore it is recommended that all persons exposed to equipment capable of producing high sound pressure levels, such as this amplifier, be protected by hearing protection while installing or operating this unit.
- Read all documentation before operating your equipment.
- Keep all documentation for future reference.
- Save the carton and packing material even if the equipment has arrived in good condition.
- Should you ever need to ship the unit, use only the original factory packing.
- Do not spill water or other liquids into or on the unit.
- Make sure power outlets conform to the power requirements listed on the back of the unit.
- Do not use the unit if the electrical power cord is frayed or broken.

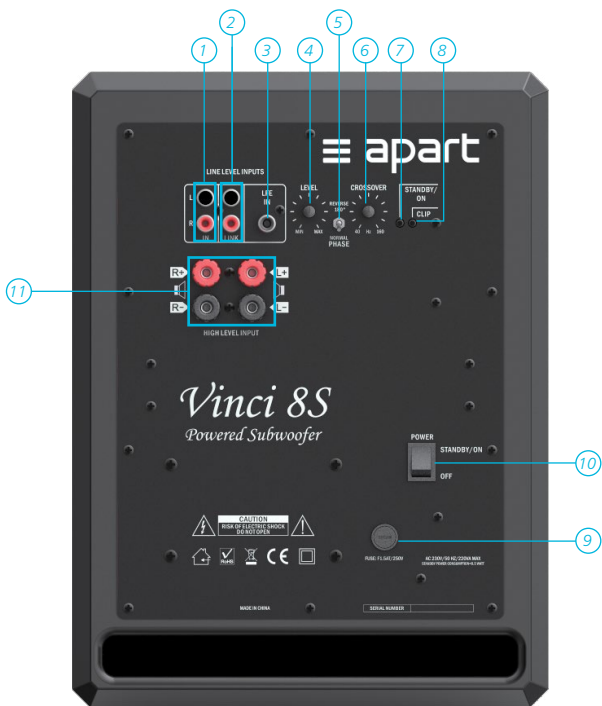
- Set level controls on amplifiers all the way down during power-up to prevent speaker damage if there are high signal levels at the inputs.
- Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
- Power down & disconnect units from mains voltage before making connections.
- Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
- Do not operate equipment on a surface or in an environment which may distort the normal flow of air around the unit.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous volt ages.
- Do not drive the inputs with a signal level higher than that required to drive equipment to full output.
- Do not run the output of any amplifier back into another input.
- In case of mal-function this device should be serviced by qualified service personnel only.

Features

- Active subwoofer with high power amplifier
- Integrated variable active filter
- Class AB discrete output stage
- Subwoofer phase polarity switch
- Bassreflex speaker design
- 8 inch long throw woofer
- Magnetic speaker grille assembly
- Adjustable crossover frequency and subwoofer level control
- Low power automatic standby mode
- Standby power consumption: less than 0.5 watt
- Toroidal transformer main power supply
- Auto on/off feature via audio input signal
- Line in connectors with passthrough
- Low frequency effects (LFE) direct input, compatible with most home cinema systems and AV receivers
- High level inputs for speaker level signals
- Standby/on and clip indicator leds

- Ideal partner for the Apart Audio Vinci (4-5-7) bookshelf speakers
- Easy to set up and install. Straightforward operation
- Supplied with rubber feet and spikes

Connections



1. **Line level inputs (IN):** connect the left and/or right channel line level audio signals here. The incoming signal is passed through to connectors 2 (LINK). Connectors: unbalanced RCA. The incoming audio signal on the IN input will be processed by the integrated active low pass filter.
2. **Line level inputs (LINK):** the audio line level signal coming in on 1 (IN) is passed through to these connectors. Connectors: unbalanced RCA. The LINK signal will not be processed by the integrated filter and is a copy of the line in signal presented at 1 (IN)
3. **LFE in:** low frequency effects input on unbalanced RCA connector: connect the LFE output of your home cinema system here: the incoming audio signal on the LFE input will not be processed by the integrated active low pass filter.
4. **Level control:** set the level control potentiometer to match the subwoofer's output level with the main speakers.
5. **Phase switch:** set to normal for normal operation. Set to 180° position when the total bass output of the subwoofer and the main speakers is less than the output of the main speakers alone.
6. **Crossover frequency potentiometer:** set this potentiometer to set the optimal blend of the subwoofer with the main speakers: large main speakers will benefit from a low crossover frequency. Small main speakers may require a higher crossover frequency.
7. **Standby/on led:** this led is red when the speaker is in standby mode. When the speaker is operational, the led will become green. After a few minutes without any signal present at the inputs, the speaker will automatically switch off to standby mode.

8. **Clip led:** this led will light up when the integrated power amplifier is being driven to its limits: lower the subwoofer level immediately to avoid any damage to the amplifier or speaker.
9. **Mains power fuse:** replace only with a fuse of the same rating. In case the fuse blows regularly, bring the unit to your dealer for service.
10. **Main power switch:** flip the switch to power the unit on and off.
11. **Speaker level inputs:** connect to the speaker outputs of your power amplifier whenever a line level signal (preamp out, subwoofer out or LFE) is not available. Maximum power of the amplifier should be less than 200 watts per channel at 8 ohms. Do not connect this to a 100 volt speaker line!

Installation

The Apart VINCI8S active subwoofer is designed to reproduce a fat and deep bass at moderate sound pressure levels.

Due to its discrete design and small dimensions, the subwoofer is very easy to integrate even in the most demanding environments. In order to get the most satisfying sound, it is essential that you read this section carefully prior to connecting the subwoofer to your system.

It is generally believed that low frequencies are nondirectional and therefore, placement of a subwoofer within the listening room is not critical ... however :

Please note that the performance of the subwoofer is directly related to its placement in the listening room.

Placement close to a room corner will increase the amount of bass output, while placing the subwoofer along the middle of a wall, or out in the middle of a room will decrease the amount of bass output. Experiment with a number of different placement options to find the one that best suits your particular room and musical taste.

Other locations will provide varying degrees of low bass impact and blending with your front speakers. We recommend listening to your system, with the subwoofer in different room positions, to obtain a location with an optimum response.

If you hear too little bass: try moving the subwoofer further towards the room corner or try reversing the polarity of the subwoofer (phase reverse).

If you need louder bass response, add more subwoofers to your system. Adding subwoofers, installed at different positions in the room, usually solves most room related problems, such as boomy bass, standing waves...

Recommended subwoofer placement:

- a) within at least 10 cm of the room corner (maximum low bass output)
- b) against the wall between your left and right front speakers (strong low bass output with optimal blending to the main speakers)
- c) freestanding between your left and right front speakers (cleanest low bass output with optimal blending to the main speakers)

Set up and operation

When available, connect the VINCI8S to the preamp out of your main audio system. Alternatively, you can connect the subwoofer to the speaker outputs from the audio system's power amplifier. Once connected, the speaker operation is straight forward. Read this section carefully and use it as a guideline. Please note that the VINCI8S has been designed for low to modest listening levels !

First, set the level potentiometer all the way down. Set the frequency potentiometer about halfway (12 o'clock position) and set the phase switch to the normal position. Now power on your audio system. Power on the VINCI8S subwoofer. The on/standby led will light up red briefly and become green. Select a music

source and play some music at a low level. Gently turn up the subwoofer level potentiometer until the subwoofer “supports” your main speakers. Adjust the frequency potentiometer for optimal blending with the main speakers. If the bass output decreases when the subwoofer is playing along with the main speakers, flip the phase switch to the 180° position. Adjust the frequency and level potentiometer and stand back a few meters:

When the bass from the subwoofer is dominantly present, the subwoofer level and or crossover frequency should be drastically reduced.

Now turn up the music to a decent listening level and adjust the subwoofer’s level and frequency to perfection: you should hear and feel the presence of the sub, but you can’t tell where the sub is located.

Check the clip led at the rear: it should never light up. If it does, reduce the level potentiometer of the subwoofer. In case you need more bass than one subwoofer can provide, try using a second subwoofer or experiment with the location of the subwoofer. The presence of a wall or room corner will drastically increase the output level from the subwoofer. Whenever you change the position of the subwoofer, experiment with the level and frequency potentiometers.

When using the LFE input, the audio signal is already filtered by the home cinema audio system. The subwoofer’s level potentiometer will of course still be fully functional. Set the level potentiometer at a position where you can hear or feel the subwoofer without being able to locate the unit.

Specifications

Amplifier	
RMS output power (THD<1%)	90 W RMS
Max output power	125 W
THD	<0.1%
Signal to noise ratio	>90 dB
Input sensitivity stereo line in	700 mV RMS
Input sensitivity mono line in	1.4 V RMS
Frequency response	20 – 180 Hz
Low pass filter	adjustable between 40 and 180 Hz
Filter slope	12 dB/oct
Auto power on sensitivity	10 mV RMS
Auto power off timer	approx 10 minutes
Standby power consumption	<0.5W
Max power consumption	135W
Fuse type and rating	1.5A slow. 250V
Mains power	230VAC +- 10%/50Hz
Speaker and cabinet	
Speaker tuning	bassreflex
Driver	8 inch (20 cm) reinforced paper cone with long throw motor
Nominal impedance	4 ohms
Frequency response	30 – 180 Hz

Cabinet material	MDF, high gloss paint finish in black or white
Dimensions (overall, including rear controls and connectors)	H x W x D: 345 x 262 x 405
Dimensions (without grille, including rear controls and connectors)	H x W x D: 345 x 262 x 385
Dimensions (without grille and rear controls and connectors)	H x W x D: 345 x 262 x 362
Net weight	12.5 kg
Accessories supplied	rubber feet, set of spikes

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Apart-Audio specifications are subject to change without notice.

