

Synästec Audio

Volatus 200 Owner's Manual

Dear Music Enthusiast,

Thank you for purchasing Synaestec Audio Volatus 200, an ultra-high-precision power amplifier system combining cutting-edge technology and the finest construction quality. You are about to experience a whole new level of realistic music reproduction.

Please take some time to read this owner's manual before using the equipment for the first time. You will find useful information that will enhance your listening pleasure.

Stefan Stotz

Managing Director

Contents

Warning.....	3
Unpacking	3
Front view	4
Rear view.....	4
Preparations.....	5
Operation	6
Safety and Protection	7
Maintenance	8
Specifications	8
Warranty	8

Warning

To prevent the risk of electrical shock, **DO NOT** remove the cover of the amplifier.

There are no user serviceable parts inside the Volatus 200 power amplifier.

Unpacking

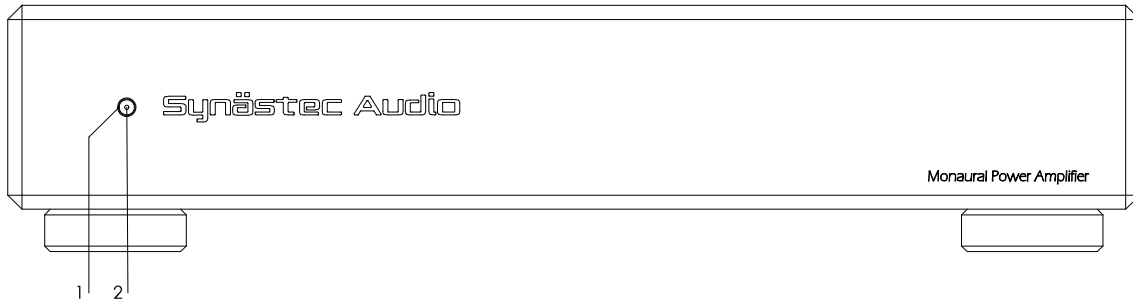
You will find in the Volatus 200 packaging:

- A Volatus 200 monaural power amplifier
- An AC power cord
- This owner's manual

The Volatus 200 is machined from a solid block of aircraft grade aluminium, therefore it is much heavier than it looks. Lift the amplifier with great care, or ask for assistance when trying to remove it from the packaging.

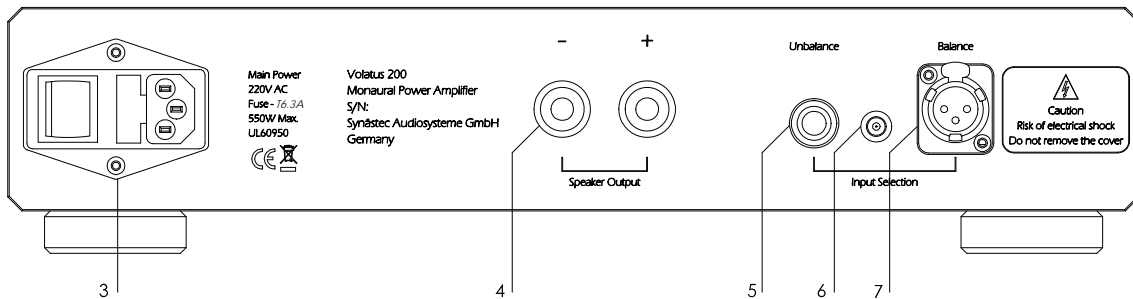
The packaging material is specially designed to well protect the Volatus 200. We recommend you to keep the original packaging in case you need to transport the amplifier in the future.

Front view



1. Power button
2. LED (it can emit red or green light)

Rear view



3. IEC power inlet and main power on/off switch
4. Speaker output terminals
5. RCA unbalanced audio input
6. Balanced / unbalanced selector
7. XLR balanced audio input

Preparations

The Volatus 200 is a monaural power amplifier. Each left and right audio channel is operated by a separate amplifier unit in order to achieve the best stereo channel isolation and audio playback.

Install Volatus 200 on a rigid and stable platform. A vibration-free platform will help to extract optimal sonic performance.

Connect the Volatus 200 to the mains with an AC power cord. Always use an AC power cord with ground wire. The Volatus 200 must be earthed, both for safety and sonic reasons. To get the best sound quality, make sure that all your Hi-Fi equipments are operated from one mains socket.

To prevent accidental short circuit, connect and secure all audio cable and speaker cable before powering on the amplifier.

Both balanced and unbalanced inputs are equipped in the Volatus 200. A balanced XLR cable is preferred for the best sound quality. The symmetrical instrumental audio input circuit of the Volatus 200 will also provide decent common mode noise rejection even when an unbalanced RCA cable is used.

Use the input toggle switch on the rear panel to select balanced or unbalanced input. Avoid connecting both balanced and unbalanced input at the same time. XLR to RCA adaptor plug is not recommended.

The Volatus 200 balanced audio input is wired as:

Pin 1: Ground

Pin 2: positive signal (+)

Pin 3: negative signal (-)

(In compliance with AES 48-2005 standard)

Operation

Turn on the main power switch on the rear panel of the Volatus 200.

After turning on the main power switch, the LED on the front panel will glow dim red. This indicates that the Volatus 200 has entered standby mode.

Note that in the first few seconds just after power on, the Volatus 200 is starting up and will be on hold. Please be patient.

After about 6 seconds, the startup will finish and there will be a very soft click sound. When you hear this, you can press the power button on the front panel to turn the Volatus 200 into operation mode.

The green LED illuminates during operation. Now play your favorite music and enjoy. If the power amplifier has not been used for a few days, wait for 15 minutes after power up to get optimum sonic performance.

When you finish listening, press the power button once more to toggle the Volatus 200 back into standby. The Volatus 200 consumes very little electricity under standby. If you plan to leave the Volatus 200 unused for a long period of time, use the main power switch on the rear panel to switch it off completely.

Safety and Protection

Clipping indicator

When playing very loud music, the green LED may flash at the instant of loud passage. This means the audio output power is approaching the amplifier's maximum rating.

The flashing green LED is only a reminder for you to turn down the volume control, in order to preserve optimum audio quality. When the volume is down, it will stop flashing.

The Volatus 200 will not suffer from any damage even if it is driven to a power level in excess of rated output power.

DC protection

The Volatus 200 protects the loudspeaker from DC leakage. In case of DC leakage, the speaker output will be cut off and the LED will flash red light.

Turn off the amplifier by using the main power switch. Wait for 5 minutes and then restart. If the LED still flashes red light, turn it off and return the amplifier to service.

Overheat protection

The solid aluminium housing of Volatus 200 acts as an excellent heatsink. It only generates a moderate amount of heat even when heavily driven.

In extreme cases when there is excessive heat accumulated, the amplifier will shut down and the LED will flash red light.

We recommend you to leave at least 70mm of space around the amplifier for ventilation. Do not cover the amplifier with any cloth or carpet during music playback.

Short circuit protection

The Volatus 200 has a built-in protection circuit against instantaneous short circuit. However, since it is a powerful amplifier capable of delivering very high output current, short circuit is still dangerous. Do not short circuit the speaker output wire intentionally.

Maintenance

The Volatus 200 requires no adjustment and will remain in optimum condition for many years.

Cleaning

Clean the surface with a piece of soft dry cloth. Do not use any solvent or cleaning agent.

Fuse replacement

Always replace the supplied fuse with one with the same rating.

For 220V AC electricity supply, use 6A delayed fuse.

For 110V, use 12A delayed fuse.

Specifications

Power output:	200 W RMS, 8 ohm (THD < 1%) 400 W RMS, 4 ohm (THD < 1%)
Frequency response:	10 Hz to 45 kHz (+0/-3 dB)
Voltage gain:	26 dB (+/- 0.5d B)
THD + N:	< 0.01% (10 Hz to 20 kHz)
Intermodulation distortion:	0.0085% (2nd order) 0.0018% (3rd order)
Signal to Noise ratio:	> 115 dBA (A Weighting)
Damping factor:	> 400 (10 Hz to 1 kHz)
Input impedance:	100 kOhm asymmetrical 200 kOhm symmetrical
Power consumption:	550 Watt maximum 8 Watt standby
Dimension:	400 mm x 307 mm x 87 mm (W x D X H)
Weight:	18.3 kg net (per channel)
Color:	Black, Stainless steel, Silver

Warranty

Three years' labor and parts.

Volatus 200 Monaural Power Amplifier Owner's Manual (English, Rev. 1.1)

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