

Synästec Audio

Origo SACD Player Owner's Manual

Dear Music Enthusiast,

Thank you for purchasing Synaestec Audio Origo, a state of the art CD/SACD player utilizing legendary pure ladder type digital to analog converter that have proven to be the best technology in all time. The Origo is also able to play digital music files of almost any sampling rate through its USB audio streaming input. This is the all-in-one digital music player system that will provide the ultimate listening pleasure that you have never experienced.

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

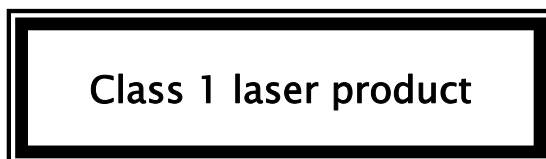
Stefan Stotz
Managing Director

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Warning

To prevent the risk of electrical shock, **DO NOT** remove the cover of the Origo CD/SACD player. There is no user serviceable part inside the player.



Unpacking

You will find in the Origo packaging:

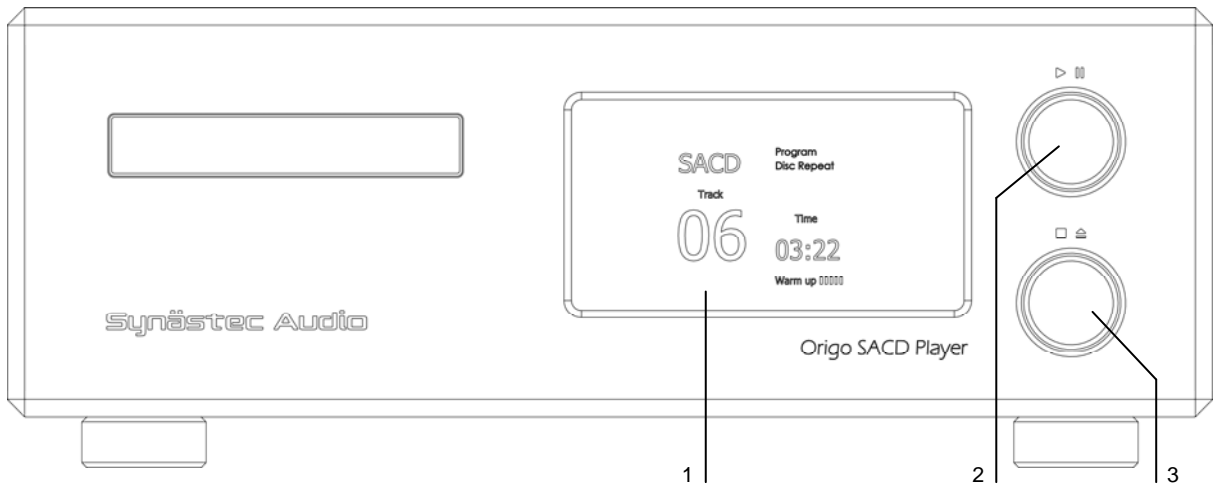
- An Origo CD/SACD player
- A remote control unit
- An AC power cord
- This owner's manual

The Origo is machined from multiple blocks of aircraft grade aluminum instead of stamped thin metal sheets. It is much heavier than other equipment of the same size. Lift the player with great care, or search for assistance when trying to remove it from the packaging.

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

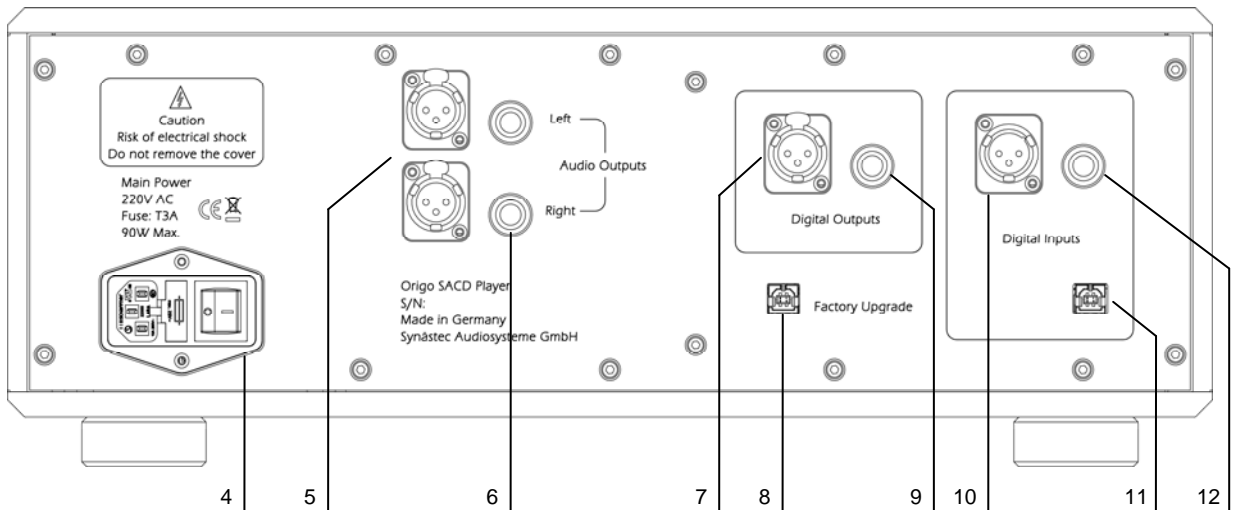
Origo CD/SACD Player

Front view



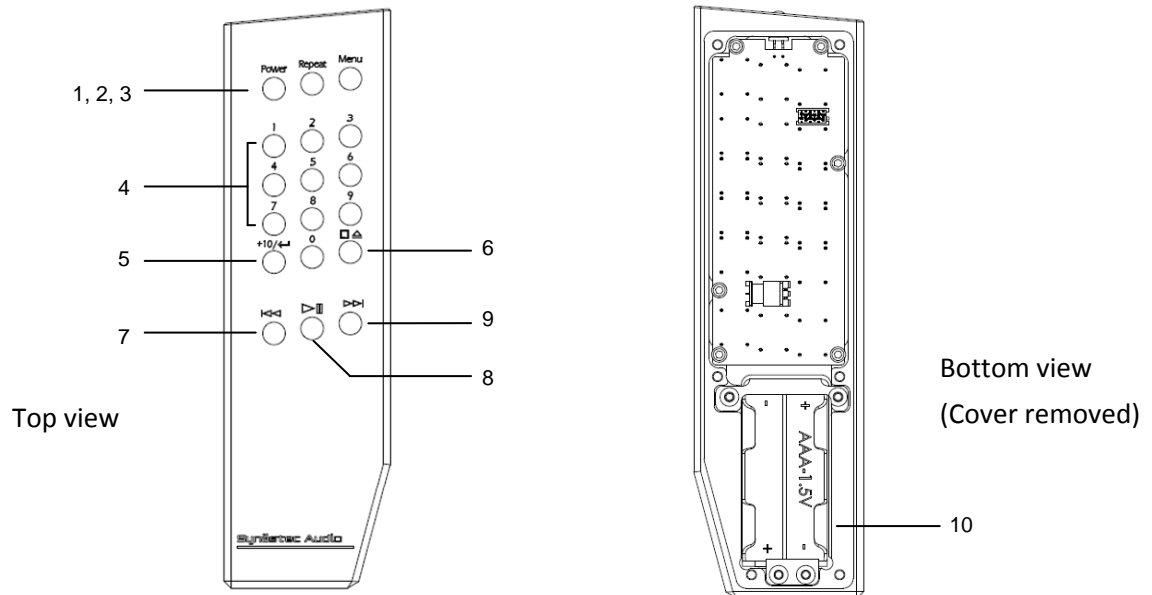
1. Display and IR remote sensor
2. PLAY/PAUSE / rotate clockwise for next track or anti-clockwise for previous track
3. STOP/EJECT / rotate clockwise or anti-clockwise for browsing in setup menu

Rear view



- | | |
|---|--|
| <ol style="list-style-type: none"> 4. AC main power inlet 5. Analog audio output - XLR balanced 6. Analog audio output - RCA unbalanced 7. AES/EBU digital output - XLR balanced 8. Reserved for future software upgrade | <ol style="list-style-type: none"> 9. SPDIF digital output - RCA unbalanced 10. AES/EBU digital input - XLR balanced 11. USB audio streaming input - type B 12. SPDIF digital input - RCA unbalanced |
|---|--|

Remote control



1. Power
2. Repeat
3. Menu
4. Number keys
5. +10 / Enter
6. Stop / Eject
7. Previous track / Backward / browse in Menu
8. Play/Pause
9. Next track / Fast forward / browse in Menu
10. Battery holder

Preparations

Install Origo on a rigid and stable platform. A vibration free platform will help extracting its optimal sonic performance. Make sure the main power switch is in the OFF position (O) before connecting the power cable.

Always use an AC power cord with ground wire. The Origo must be earthed, both for safety and sonic reason. To get the best sound quality, make sure that all your Hi-Fi equipments are connected into one mains socket.

Connect the player's audio output to your amplifier's input, using high quality audio cables. The Origo's audio circuit is fully balanced right from the DAC core, therefore balanced XLR cable is preferred for the best sound quality. The balanced audio outputs are wired as pin 1 Ground, pin 2 hot and pin 3 cold (Comply to the AES 48-2005 standard). The Balanced output and single ended output are driven by independent amplifier circuits and they can be used simultaneously.

USB audio setup

The Origo is equipped with high speed asynchronous USB audio streaming interface, which is capable to accept up to 24bit-192KHz audio data with extremely low jitter.

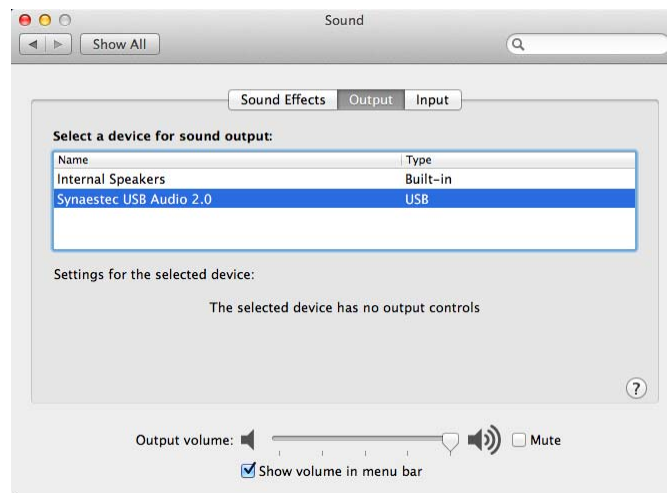
Windows environment

A proprietary driver is required to be installed to enable the high speed asynchronous USB interface. The driver can be downloaded from the following website: http://synaestec-audio.de/en_Origo.html.

Follow the driver installation instruction to install the Synaestec USB audio 2.0 driver prior to connecting the Origo to your Windows computer. After finishing the driver installation, connect the Origo to your computer. Select Synaestec USB audio 2.0 as the default playback device through your music player software.

Mac OS environment

There is no need to install any drivers. The Origo's USB streaming interface is plug and play under Mac OS environment. Simply connect the USB interface and then select Synaestec USB Audio 2.0 in the Sound menu.

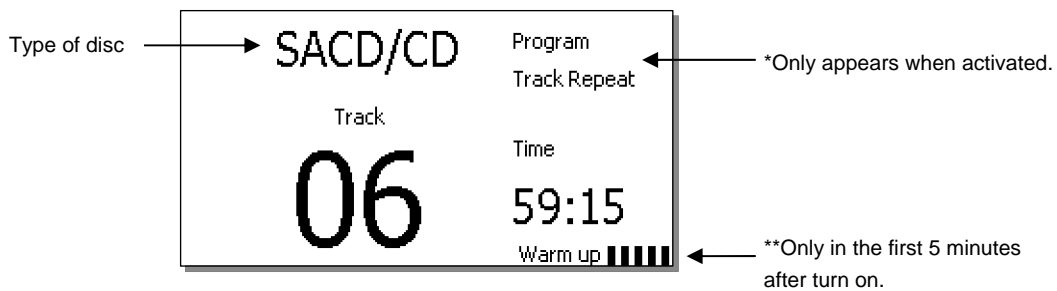


There are many different music player software available. We recommend disabling all sound effects in the music player software, such as sample rate conversion (up-sampling), equalizer, volume control, virtual surround sound, channel mixing, echoes, etc. It is the best to output raw PCM audio to the Origo without any alteration, which is also called bit perfect.

Operation

Turn on the main power switch on the rear panel of the Origo.

After turning on the main power switch, the play LED on the player's front panel will glow dim red, indicating it is in ready mode. Now you can press the Power button on the remote control unit or press and hold the PLAY/PAUSE knob on the front panel to turn the player on completely.



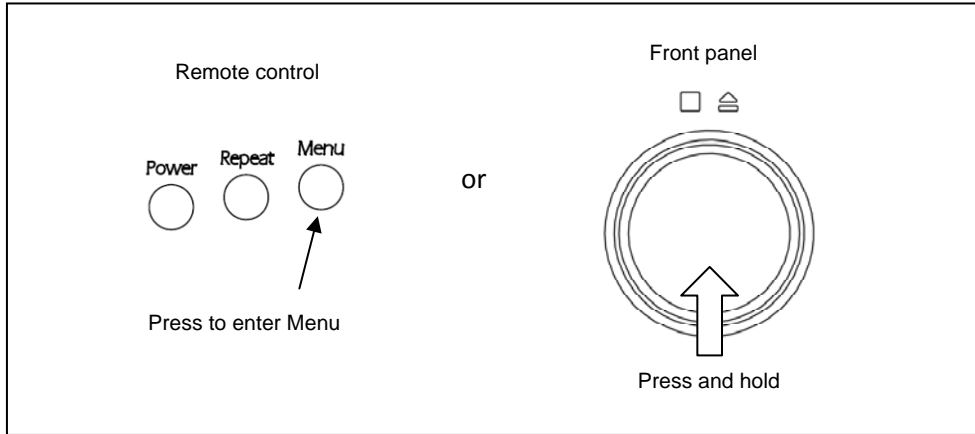
After turning on the player, you can open the disc tray and insert your CD or SACD using the STOP/EJECT button. When you have finished listening, press the Power button on the remote control or press and hold the PLAY/PAUSE knob on the front panel to turn the Origo back into ready mode. If you plan to leave the Origo unused for a long period of time, use the main power switch on the rear panel to switch it off completely.

There is an Oven-Controlled-Crystal-Oscillator (OCXO) inside the Origo to generate the perfectly accurate audio reference clock. This OCXO needs 5 minutes to warm up in the initial power up. There is a warm up sign on the display screen, and it will disappear when the OCXO warm up is completed. The player shall function normally within this 5 minutes time, and will reach its optimal performance level after completing the warm up period.

Setup Menu

Enter the Setup Menu by pressing the Manual button on the remote control, or by pressing the STOP/EJECT knob on the player's front panel continuously for more than 3 seconds.

To enter Setup Menu

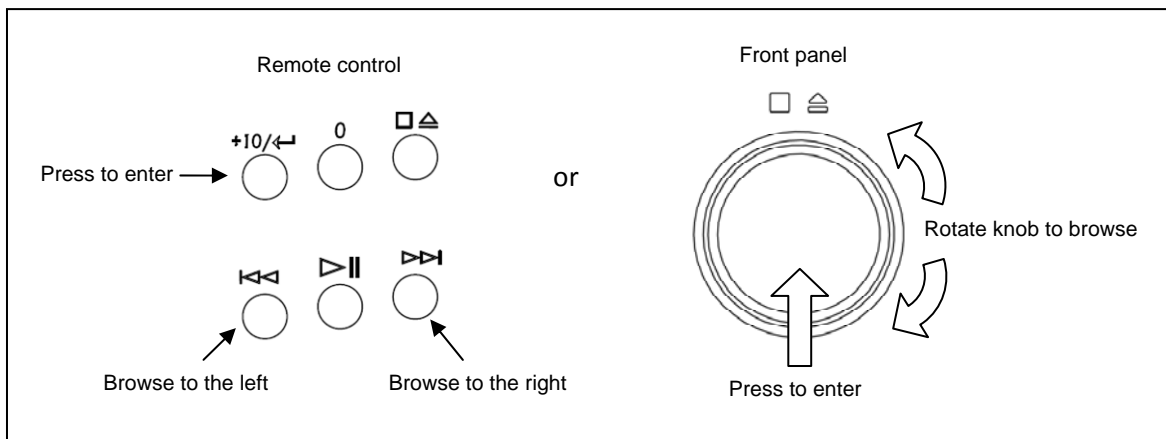


Setup Menu screen



Browse the Setup Menu using the Previous/Next track button on the remote, or by rotating the STOP/EJECT knob on the front panel.

Navigate in Setup Menu

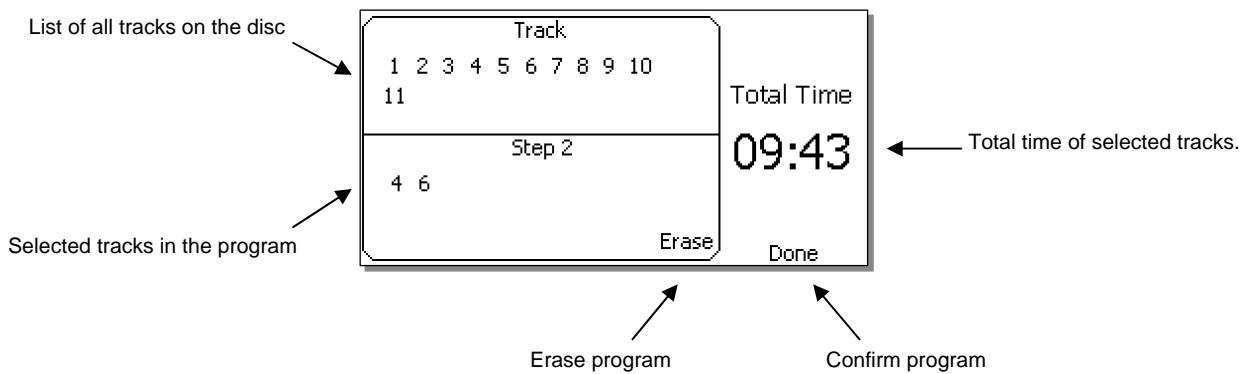


Play Mode

You can choose how the disc is being played in the Play Mode menu.

Program

Create custom playlist by picking tracks from the list, selected tracks will be played in the assigned sequence. It is possible to select up to 30 tracks in the program. To exit program, press the Stop button twice.



Disc Repeat

The player will loop back to play track number one un-interruptedly after finished playing the last track on the disc.

Track Repeat

The single assigned track will be played repeatedly.

Normal

Resume to the default play mode. Every track on the disc will be played sequentially according to the track number and then the player will stop after finished playing the last track.

Input Select

The Origo accepts different types of external digital audio inputs up to 24bit-192KHz besides playing CD or SACD.

USB

Activates the USB audio streaming input.

Coaxial

Activates the SPDIF coaxial digital audio input.

AES/EBU

Activates the AES/EBU balanced digital audio input.

DISC

Disables all external digital audio inputs and switch to play CD or SACD.

Time Indicator

You can select the way how the play time is displayed on the screen.

Time elapsed in track (Default)

Remaining time on track

Remaining time on disc

Brightness

There are 5 different levels of display brightness available, *level 5* being the brightest. Or you can choose *Auto*, which will brighten up the display upon any control command, and then dimmed by itself after about 10 minutes.

Safety and Protection

DC protection

The Origo protects the loudspeaker from DC leakage. In case of the present of DC leakage, the audio output will be cut off automatically.

Short circuit protection

The Origo is designed to withstand momentary short circuit. However, do not short circuit the audio output intentionally.

Maintenance

Cleaning

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

Remote Control Battery replacement

Unscrew the bottom plate of the remote control unit. Replace old batteries with AAA size dry cell alkaline batteries (LR03). Reclose the bottom cover after battery replacement. Always replace both batteries at the same time. Mixing new and old batteries will reduce battery life.

Fuse replacement

Only replace Fuse with the same rating as the supplied one.

For 220V AC electricity supply, use T3A delayed fuse.

For 110V AC electricity supply, use T6A delayed fuse.

Specifications

Digital inputs:	1 symmetrical	Input impedance:	110 Ohm
	1 asymmetrical	Input impedance:	75 Ohm
		Minimum input level:	0.2Vpk-pk
	1 USB 2.0 high speed compliant		

Digital outputs:	1 symmetrical	Output impedance:	110 Ohm
		Output level:	1.6Vpk-pk
	1 asymmetrical	Output impedance:	75 Ohm
		Output level:	1.2Vpk-pk

Input resolution:	Up to 24bit-192KHz
Core sampling rate:	768KHz internal
Frequency response:	20 Hz to 40 kHz (+0/-1.0 dB)
THD+N:	<0.001%
Noise floor:	<-160 dBr
Channel separation:	> 130dB

Analog outputs:	1 symmetrical	Output impedance:	150 ohm
	1 asymmetrical	Output impedance:	75 Ohm
		Full scale output voltage:	3.9Vrms

Power consumption:	50 Watt
Weight:	38kg net
Dimension:	485 mm x 485 mm x 185 mm (W x D x H)

Warranty

Five years labor and parts.

Origo SACD Player Owner's Manual (English, Rev. 1.0)

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