

AUREON 7.1 PCI

Manual (English)

Version: 2/14/2006

CE Declaration

We:

TerraTec Electronic GmbH, Herrenpfad 38, D-41334 Nettetal, Germany

hereby declare that the product:

SoundSystem Aureon 7.1 PCI

to which this declaration refers is in compliance with the following standards or standardizing documents:

1. EN 55022
2. EN 50082-1

The following are the stipulated operating and environmental conditions for said compliance: residential, business and commercial environments and small-company environments.

This declaration is based on:

Test report(s) of the EMC testing laboratory



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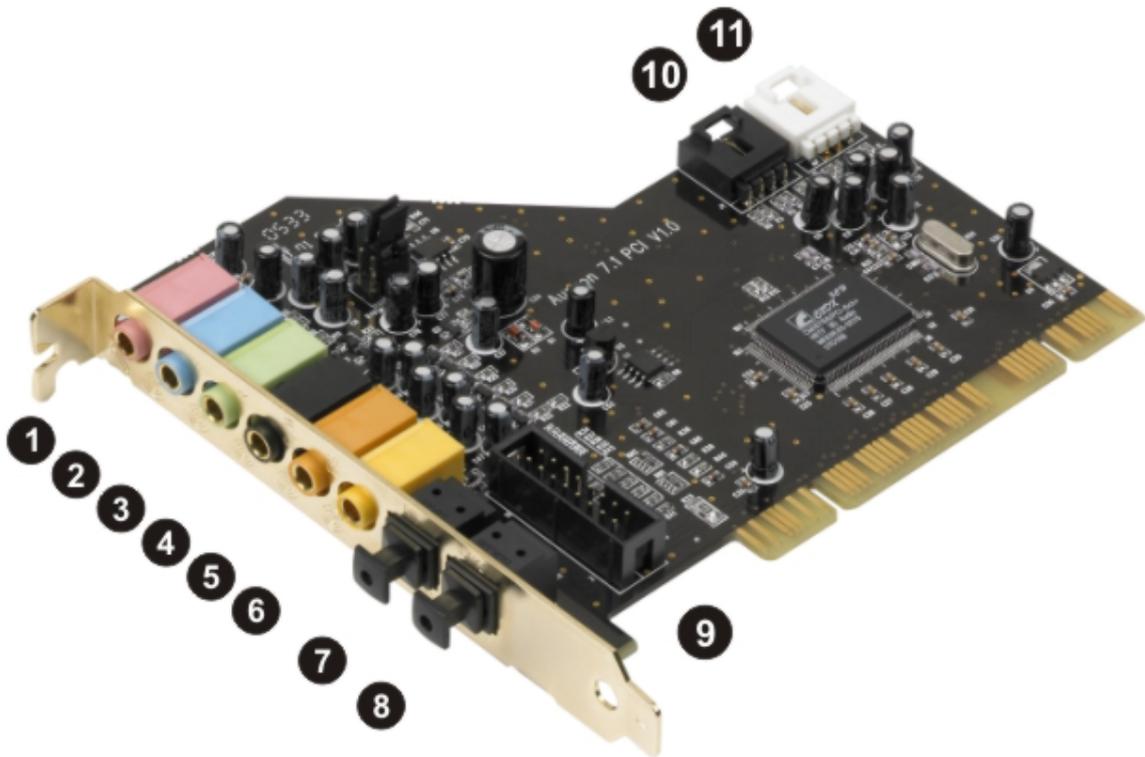
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Dear Customer,

In the following Quick Reference Guide, replace “<CD>” with the drive letter assigned to your CD-ROM drive.

Layout of the card



1. Microphone input
2. Line input
3. Line output 1 (front speakers) / headphone output
4. Line output 2 (side/rear speakers)
5. Line output 3 (center speakers/subwoofer)
6. Line output 4 (rear effects speakers)
7. Digital input S/PDIF (Toslink)
8. Digital output S/PDIF (Toslink)
9. Joystick/MIDI port
10. Line input (CD)
11. Line input (AUX)

JP1 – function of line output 1

Hardware installation

Installing the card

Before installing the sound card in your computer, please note the details of your computer's configuration. Also refer to the manual of your computer and other expansion cards for their settings.

Please observe the following instructions to ensure a trouble-free installation.

If you are still having problems, please call our service hotline. The telephone number and operating hours of the hotline are on the included customer service card.

Start by making sure that nothing is missing. The package should contain at least the following items:

- 1 PCI sound card TerraTec SoundSystem Aureon 7.1 PCI
- 1 slot plate adapter for the joystick/MIDI port
- 1 installation and driver CD
- 1 registration card with the product serial number
- 1 customer service card.

Please fill out and return the registration card to us at your earliest convenience or register online at <http://www.terratec.net/register.htm>. This is important for support and hotline services.

Safety note. Before opening the case, unplug the AC power cable from the wall socket as well as from the PC.

And here's what to do, step by step:

- Switch off your PC and all connected peripheral devices such as your printer and monitor. Leave the AC power cable connected for the time being, so that your computer is still grounded.
- Touch the metal chassis at the rear of the PC to ground and to discharge static. Now unplug the cord from the AC socket.
- Remove the cover from the case of your PC.
- Look for a free PCI expansion slot that has another free expansion slot of any type immediately next to it, remove the screw holding the slot blanking plate and remove the plate. To ensure the optimal function of your Aureon 7.1 PCI, look for an expansion slot that is not immediately next to an already-installed card. Some cards, such as graphics cards, can send out signals that can interfere with the sound card.
- Carefully remove the sound card from its packaging and pick it up by the edges with one hand while your other hand is touching a metal part of the PC. This will ensure that your body is completely discharged of static electricity via your computer without charging the sound card. Do not touch the components of the card under any circumstances.
- Determine the function of port (3):



- Connect the MIDI/game port expansion to port (9) and, where necessary, other internal audio devices (such as CD-ROM or DVD drives) to ports (10) and/or (11) of the card.
- Align the holder at the rear of the sound card in the expansion slot in such a way that the card's gold connectors are directly in line with the slot's socket.
- Insert the card into the slot. You might have to press the card firmly into the slot to make good contact. Take care to ensure that the contacts are exactly in line. If they are not, you could do damage to the sound card or your computer's motherboard.
- Insert and tighten the screw from the slot blanking plate to secure the sound card in its slot.
- Repeat the same procedure for the MIDI/game port extension.
- Reinstall the cover of your PC case.
- Connect your speakers or stereo system to the sound card.
- Reconnect the AC power cable as well as all other cables. Make sure that your speakers or HiFi system is set to low volume. Start your computer.

Connecting a speaker system to your sound card

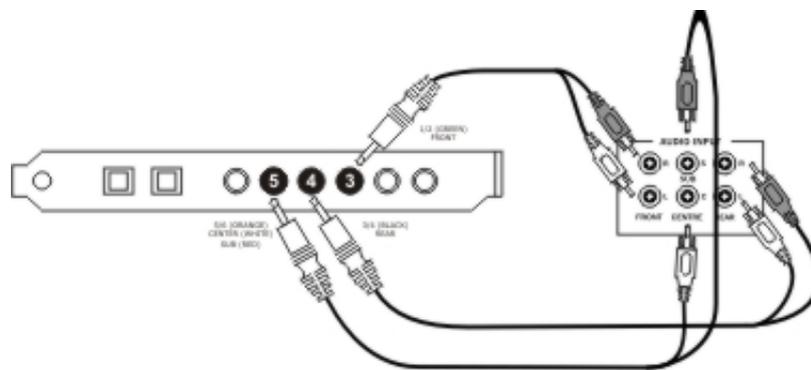
You can connect any commercially available active speaker system to your Aureon 7.1 PCI sound card.

Ensure that the front port (3) is configured as “Line” using JP1.

After installing the drivers and software, select the correct speaker configuration in the Aureon 7.1 PCI Control Panel. (See the chapter on “The Aureon 7.1 PCI Control Panel”.)

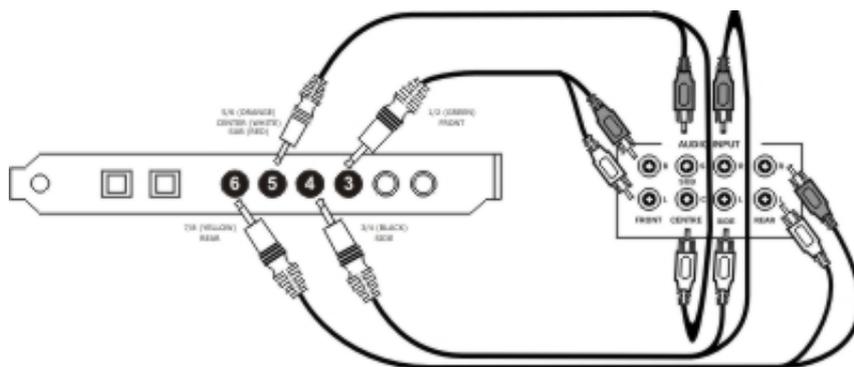
Connecting a 5.1 speaker system

Below is an illustration of the typical connection for a 6-channel (5.1) speaker system (the required 2x cinch [RCA] to 3.5 mm jack connecting cables are normally included with your speaker system, such as TerraTec HomeArena products).



Connecting a 7.1 speaker system

Below is an illustration of the typical connection for an 8-channel (7.1) speaker system (the required 2x cinch [RCA] to 3.5 mm jack connecting cables are normally included with your speaker system, such as TerraTec HomeArena products).



Connecting a stereo/4-channel speaker system

To connect a 4-channel speaker system, use only the front (3) / green and rear (4) / black ports. For a 2 or 2.1-channel speaker system, use only the front (3) / green port of the sound card.

Installing the drivers and Control Panel

After the computer restarts, you're logged in as administrator and Windows XP detects the new hardware using the Add New Hardware Wizard, the following window displays.



Cancel the installation at this point by clicking “Cancel”.

Insert the Aureon 7.1 PCI Software CD into your CD/DVD drive. If the installation wizard does not start automatically, run `<CD>:\Autorun.exe` manually.

In the installation wizard, first select your desired menu language and then click “Software Installation”. Start the setup by clicking “AUREON 7.1 PCI”.

Alternatively, you can also start “Setup.exe” manually from the folder `<CD>:\Software\TerraTec`. Simply follow the instructions on the screen.

In the following dialog box, Windows XP will inform you that the “Aureon 7.1 PCI” driver did not pass the “Windows Logo test”. Click “Continue”. Conclude the installation by clicking “Finish”.

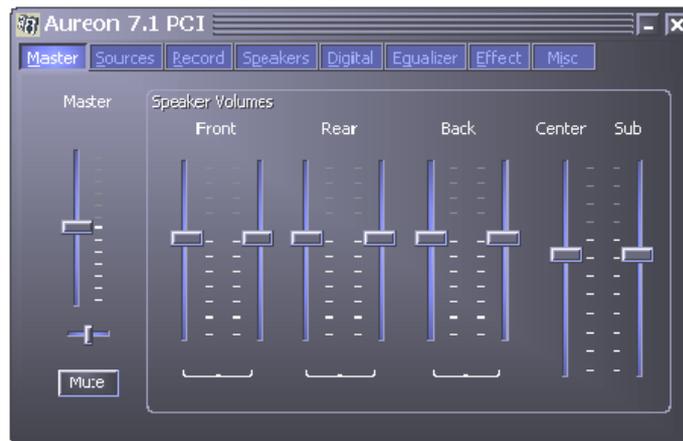
This completes the installation of the drivers and you can now start installing the application programs.

The Aureon 7.1 PCI Control Panel

Master

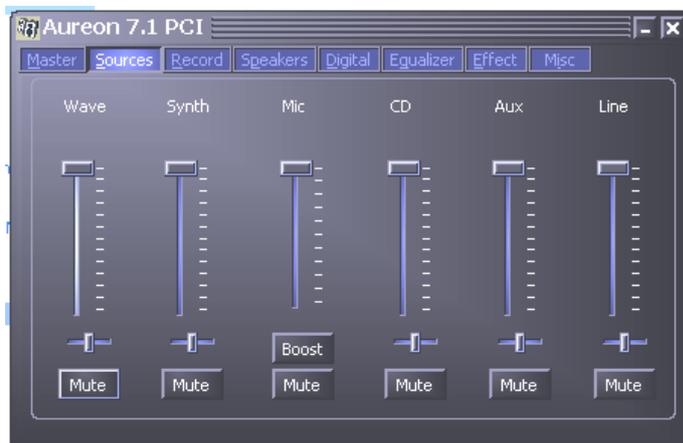
You can adjust the volume of each individual speaker here. If they didn't exist only on your computer screen, the faders marked "Front" would probably become worn from frequent use—they are used to adjust the volume of the two front speakers.

The master fader controls the sum of all outputs and can also be silenced by clicking the MUTE button.



Sources

You can adjust the level of each individual signal source here.



You can also silence all signal sources by clicking the MUTE button. Despite this, however, they are included in the recording if you have explicitly selected the source. Adjust the position of the stereo image using the balance faders below the level faders.

Boost! button

This button pertains to the microphone input and, when activated, can boost the input signal with a gain of up to 20 dB.

Record

In the “Record” window, you can set the signal source for a recording and its gain.

The “Mix” button allows you to record all analog sources at the same time.

S/PDIF is a digital signal that does not allow gain control.



Speakers

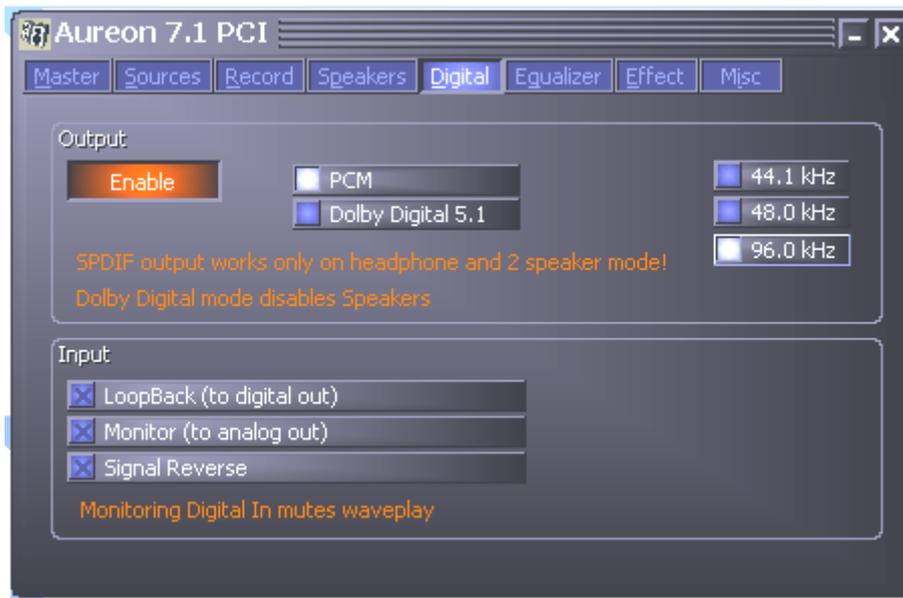
Set the speaker configuration you want to use here.

You can activate every single speaker individually here to test it for correct wiring and function. If you click on a speaker to activate it, you will hear static from that speaker.



The “DirectSound Acceleration” fader should always be set to “max” if the computer is working without any problems.

Digital



Output

You can enable or disable the digital output using the “Enable” button. The digital output can be enabled in “Stereo speakers” or “Headphones” mode only.

You can also select the sampling frequency you want to work with.

Dolby Digital Live!™ Encoding function

Click the “Dolby Digital 5.1” button to enable real-time Dolby Digital™ encoding. This function disables all analog outputs of the sound card.

With Dolby Digital Live!™, all sounds output by your computer, such as system sounds, games or music, are converted into a Dolby Digital (AC-3) signal and can be reproduced with a 5.1 AV receiver or a Dolby Digital™ compatible speaker system with digital input.

Input

LoopBack

This button causes the digital input to be looped through to the digital output.

Monitor

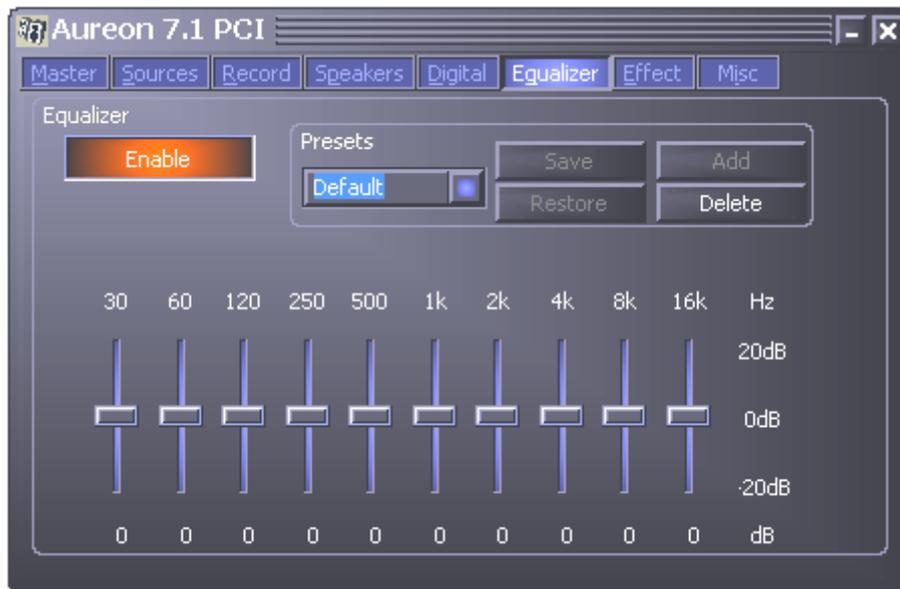
This loops the signal from the digital output to the analog output.

Signal Reverse

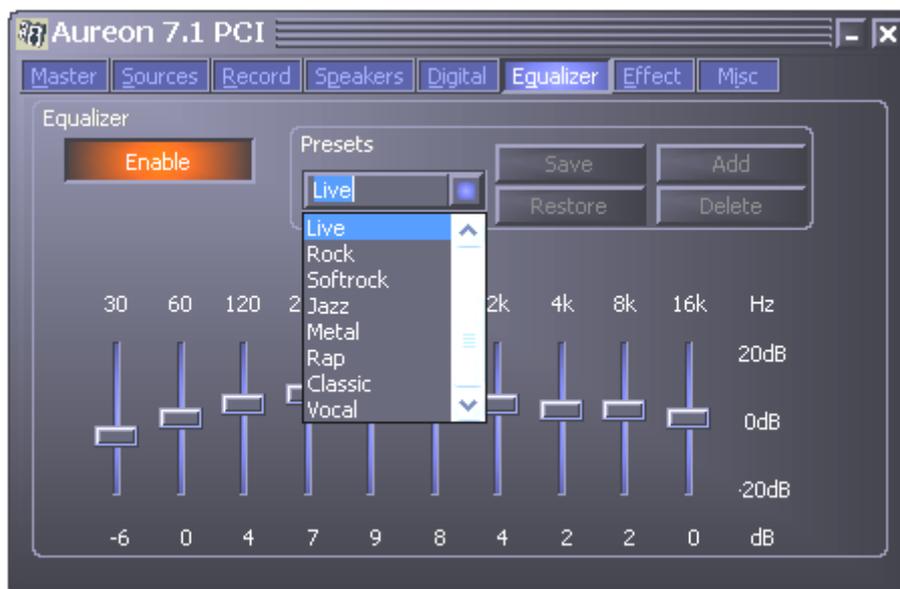
Switches on signal reverse for the digital input.

Equalizer

Using the integrated equalizer, you can increase or attenuate audio signals in 10 frequency bands to emphasize bass or treble.



You can choose from a wide variety of presets to improve audio reproduction for most standard situations.



If you have modified the settings yourself, you can do the following:

Add – Save them as a new preset

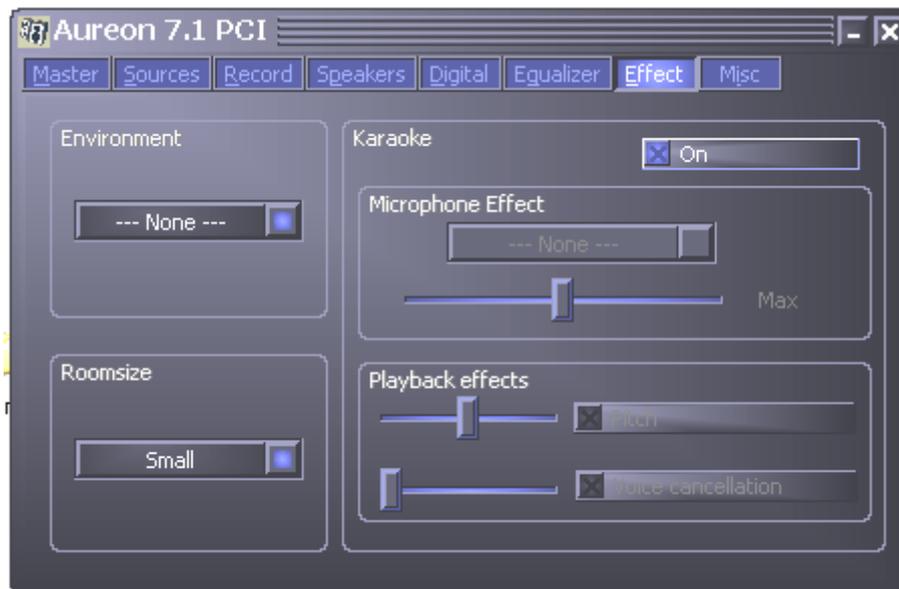
Save – Save them to the selected preset

You can delete the setups you have defined by clicking “Delete”. If you have accidentally overwritten a default preset, you can click “Restore” to restore it.

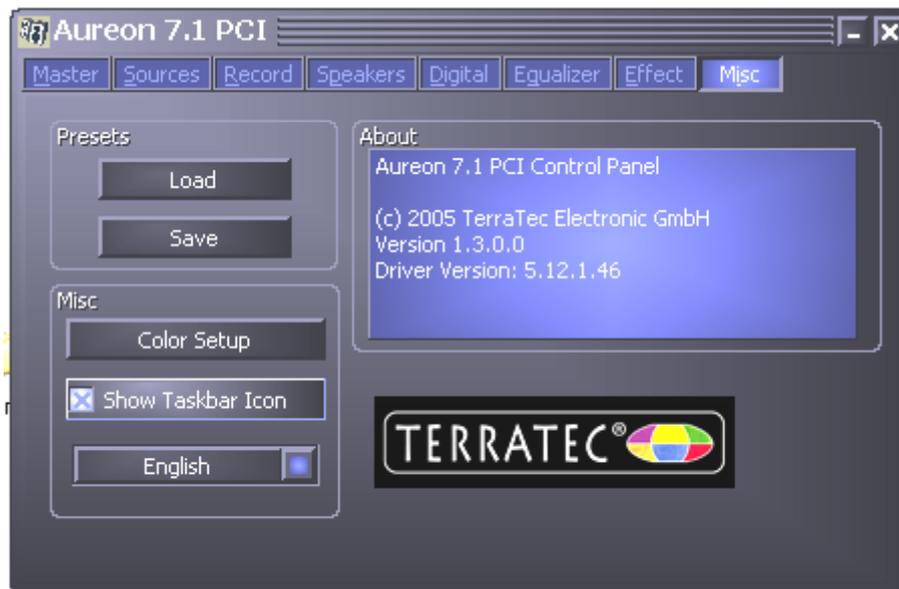
Effect

You can use the effect settings to control overall reproduction and enable special microphone effects for Karaoke.

Have fun trying out the soundsets ☺.



Misc.



Presets

You can save the settings configured in the control panel as profiles and load the profiles.

Color setup

You can set the colors of the control panel to your taste here.

Show Taskbar Icon

When this is enabled, the Control Panel icon of your sound card appears in the taskbar.

Language

You can also change the display language of the Control Panel using the drop-down menu.

About

This window shows the driver and control panel version installed on your computer.

Support

For more information on the TerraTec hotline, our online forums and Internet presence, please refer to the included customer service card.