



Hegel H100

High End Integrated Amplifier
With Integrated USB DAC

www.hegel.com

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USER GUIDE

Congratulations on your new HEGEL!

Our products are based on a simple philosophy:

The component shall reproduce the original musical sound, purely and naturally.

It uses Scandinavian design reflecting natural music reproduction and styling to fit in with any interior.

The products are easy to operate and are manufactured according to the best quality principles.

All HEGEL products are created with acoustical instruments in a concert situation as point of reference. The music is reproduced exactly like the original and is limited only by the quality of the recording.

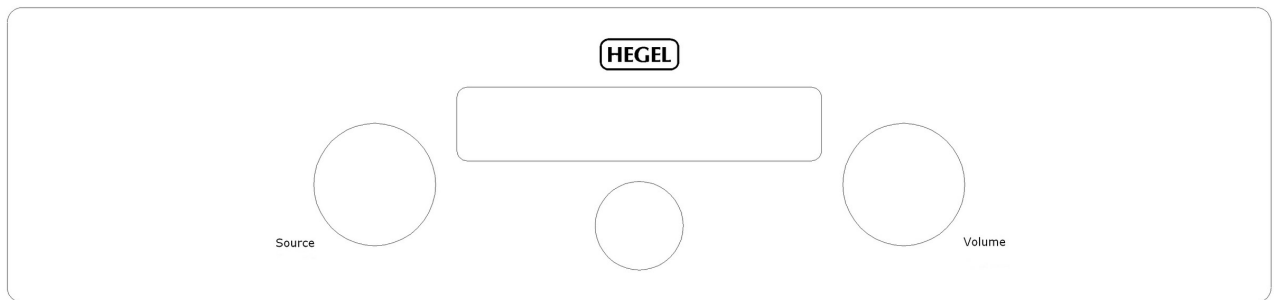
Our aim is to give you the best possible music experience!

SOUND ADVICE

The Hegel H100 Integrated Amplifier is easy to connect and operate and requires no prior technical knowledge. However, to get the most out of the amplifier's superior sound and music quality, we have provided a brief description of the connections and use of the amplifier in order to provide a total music experience.

We recommend keeping this user guide for future reference.

GENERAL USE



The H100 amplifier is switched on with the power button in the middle of the front panel. Blue color characters in the display indicates that the amplifier is switched on.

Source Selector. The input source selector knob is on the left-hand side of the front panel. Seven different source selections are available: Home Theater, Aux, Tuner, DVD, CD, Balanced and USB. Two letters in the left-hand side of the display will show the selected input source: ht is Home Theater, Au is Aux, tu is tuner, vd is DVD, cd is CD, ba is Balanced and US is USB input.

The default input when powering up the H100 is the balanced input, indicating that Hegel recommends using the balanced input to get the best sound possible.

The H100 USB DAC digital input connector is located in the rear side of the amplifier, between the speaker outputs and the AC Mains voltage input connector.

By connecting a standard USB cable between your computer and the USB connector in the rear side of the H100, you can use the combination of computer and H100 to play high quality music files by using the high quality internal USB DAC in the H100. You can listen to music files stored on the computer and listen to radio using international internet-radio web sites like “www.reciva.com” or similar web sites with web based radio stations.

You can verify that the USB DAC is installed in the H100 by checking for the installed check mark just above the USB-input on the rear side of the H100.

The USB DAC input is selected by turning input selector fully clockwise, and the display will show the letters US when the USB DAC digital Audio input is selected.

Volume. The volume control knob is on the right-hand side of the front panel, and the volume level is indicated by a number between 0 and 99 in the right-hand side of the display. The default volume setting after powering on the H100 is always 30. The startup volume level will gently be faded up from 0 to 30 to give you an audible indication there is sound through the amplifier after power up.

The volume level can be adjusted by turning the volume knob up or down, or by using the VOL+ and VOL- knobs on the RC2 remote control. The volume can be adjusted from the RC2 remote control in two different ways. By pressing the volume knobs shortly the volume level will go one step up or one step down. By holding the volume knob down the volume level will be adjusted automatically at a

slow speed for about 3 seconds and the volume will after 3 seconds be automatically adjusted at a high speed.

Mute. When the mute button on the RC2 remote control is pressed the speaker outputs and PreOut 1 & 2 outputs are muted. A flashing volume number in the display indicates mute is on. To switch mute off press the mute button on the remote control one more time, press any of the volume buttons on the RC2 remote control or turn the volume adjustment knob up or down.

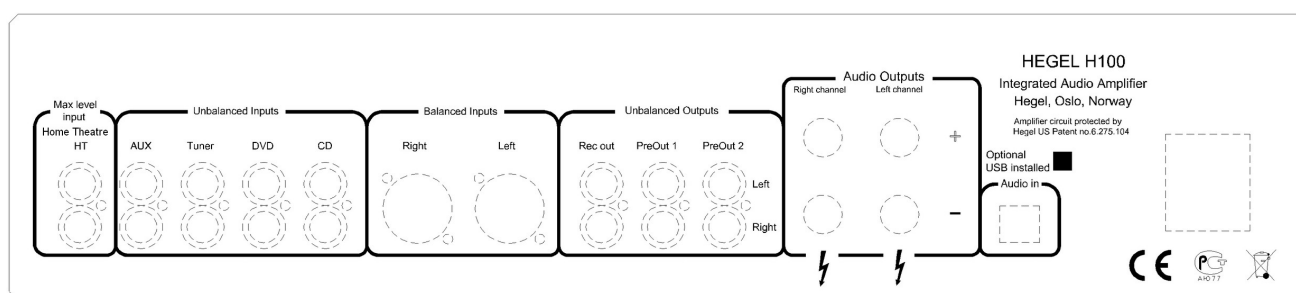
Home Theater. The Home Theater input is a maximum volume line level input with the volume setting permanently set at volume step 75. The HT input is used when connecting the H100 to a surround processor with internal adjustable volume. **Do not** connect input sources such as CD-players, DVD-players or similar signal sources to the Home Theater input. If by mistake a fixed level CD-player is connected to the Home Theater input severe damage can be done to amplifier and connected loudspeakers.

If you do not need the Home Theater input, and have a need for an additional adjustable RCA audio input connector, then your authorized Hegel-dealer can help you in converting the HT input to a normal audio input with volume adjustment from 0 to 99.

Always connect input / output audio cables and power cable when the amplifier is powered OFF.

After the amplifier is switched on, there is a delay of some seconds before the music signal reaches the speaker outputs. Never turn off the power knob while music is playing in the speakers. First turn down the volume or stop the CD-player, then turn off the power knob.

To get the best sound possible we recommend to use the H100 amplifier with a high quality sound source, a very good choice would be one of the Hegel CD players. The resolution of the Hegel H100 is so high that the best possible combination will be to use a Hegel CDP2A together with the H100.



Viewed from the rear side the connectors are from left to right:

Home Theater HT input Phono / RCA, right / left
Signal input Phono / RCA, right / left AUX
Signal input Phono / RCA, right / left Tuner
Signal input Phono / RCA, right / left DVD
Signal input Phono / RCA, right / left CD
Balanced signal input XLR right / left
Record output Phono / RCA, right / left
Pre output 1 Phono / RCA, right / left

Pre output 2 Phono / RCA, right / left

Speaker output right

Speaker output left

USB DAC Audio input for playing music files from external computer PC or MAC.

AC Power connection 230V / 115V / 100V AC dependent on country. Fuse holder.

The preamplifier section of the H100 has two types of audio inputs: unbalanced audio signal with RCA plugs (phono plugs) and true balanced audio signal with XLR plugs (pin 2 is positive phase, pin 3 is negative phase and pin 1 is chassis earth).

HEGEL REMOTE CONTROL RC2

The Hegel H100 can be controlled by the included Hegel system remote control RC2. Like other Hegel products, the number of buttons on the RC2 is kept to a minimum.

The volume setting, input source and mute function of the H100 can be operated by using the remote control. The Hegel system remote control will also control other Hegel products like CD players and preamplifiers, avoiding the need for several different remote control devices.

The remote control uses two standard 1.5-volt LR03 AAA batteries. To insert the batteries please use a normal type cross head screwdriver to gently remove the four screws in the bottom of the remote control. Be careful and use a normal cross head screwdriver to remove the four Philips cross head screws. Do not use a Pozidrive cross head screwdriver, it can damage the head of the screws.

Be sure to insert the batteries with the correct polarity with + sign and – sign as shown inside the battery holder, and be careful when inserting the batteries to not damage the battery holder.

Be careful when inserting the screws after fitting the batteries. Please turn the screws gently by hand first to avoid damaging the threads in the remote control body. The threads are made in a soft metal and can be damaged if screws are inserted by force. Do not tighten the screws too hard, as this also can damage the screws and the soft metal body of the remote control.

Please do not drop the remote control hard down in the floor, as this can damage internal parts of the remote control and the battery holder.

To avoid damage to the remote control by leakage from the batteries during transport and storage, the remote control is supplied without batteries from Hegel.

USE & PLACEMENT

The HEGEL H100 should be placed on a flat, hard surface for proper cooling. The amplifier performs best after being switched on for about 1/2 hour for heating up. Plenty of space is required for air circulation above, below, to the sides and to the rear of the amplifier.

Hegel recommends at least 20 cm (8 inches) of free space above, at each side and in the rear side of the H100 to make sure of proper cooling of the internal electronics.

The amplifier must never be placed on a carpet or similar surface that obstructs air circulation through the component. Nor must it be covered while in use or placed on a narrow shelf or in any confined space. Putting the H100 in a rack with closed rear side or rear panel is not recommended.

Hegel recommends to NOT place a CD-player or other similar device directly on top of the H100. Both the H100 and the CD-player will get too warm, and they will not perform in an optimal way. The recommended solution is to have the H100 and the CD-player on separate shelves in a rack or placed besides each other.

The H100 amplifier will automatically switch off the speaker outputs if overheated.

The amplifier will need some break-in time before maximum sound quality can be experienced.

Never lift the H100 by holding around the volume knob or input selector knob. The H100 is heavy, and applying pressure can damage the knobs and the internal adjustment controls.

TRANSPORT AND SHIPPING OF AMPLIFIER

If you are packing the amplifier for shipping please follow these instructions to secure the volume and source knobs are not damaged in transport:

1. Put the plastic bag around the amplifier, putting the bag on from the front panel side of the amplifier. Leave about 10cm of open room between bottom end of plastic bag and volume and source knobs, making sure the plastic bag bottom end will not touch the knobs during transport.
2. Insert the amplifier in the two white shock absorbers, one in the left side and one in the right side of the amplifier. It will be most easy to fit the left hand side shock absorber first by putting the left hand side shock absorber down on the floor and putting the amplifier down into the shock absorber. Hold the amplifier firmly in the middle of the front panel and the middle of the rear panel and be careful to not hold around the volume and source knobs. Then put the right hand shock absorber on the amplifier.
3. Insert the amplifier into the cardboard box by first lowering the front panel side against one side of the cardboard box. Then lower rear side of the amplifier into the cardboard box.
4. Make sure the plastic bag is not tight around the volume and source knobs to avoid any damage to the knobs during transport.

CLEANING

The top cover, side panels and knobs are made of brushed / blasted and anodized aluminum, while the front panel is made out of a solid 22mm thick aluminum bar. The front panel is glass bead blasted and anodized. Fingerprints or stains on the front panel, knobs or top cover can be removed with a cloth moistened with warm water or with a mild detergent suitable for cleaning mirrors and bathroom.

We have found that the detergent Bio-Tex OXI effect supplied in an orange plastic spray can is working particularly well in cleaning the front panel, top cover and side panels.

We wish you good luck in setting up and connecting your new amplifier and hope that it will give you many years of joyful natural sounding music experiences!

TECHNICAL SPECIFICATIONS

H100 High End Integrated Amplifier with Integrated USB DAC

Power output	120W + 120W in 8 Ohms, 220W + 220W in 4 Ohms.
Minimum load	Loudspeaker impedance down to 2 ohms can be used.
Analog Input Sources	6 remote controllable analog inputs switched by gold plated relays
Input Terminals	Gold plated Phono / RCA unbalanced and gold plated XLR balanced
Digital input source	USB DAC digital Audio input for connection to external PC or MAC.
Output Terminals	One set of gold plated speaker terminals each channel
Line level Outputs	Gold plated Phono / RCA unbalanced Rec out, Preout 1 and Preout 2
Frequency response	Less than +/- 0.1 dB deviation 20Hz-20kHz
Phase response	Less than 2 degrees deviation 20Hz-20kHz
Signal-to-noise ratio	More than 100dB
Crosstalk	Less than -100dB
Distortion	Less than 0.007% @ 50W 8 Ohms 1kHz
Intermodulation	Less than 0.01% (19kHz + 20kHz)
Damping factor	More than 1000 (Main power output stage)
Remote Control	Philips RC-5 compatible IR system 36kHz modulation
Dimensions	10cm x 43cm x 40cm (HxWxD), 16kg shipment weight.

NOTE & WARNING

Hegel products should only be opened or serviced by certified technicians. The devices contain electronic components that can cause severe electric shock. Work performed on Hegel products by unqualified personnel can cause serious damage and personal injury.

Opening of the product by non-authorized personnel will cancel the guarantee.

The products must not be exposed to rain or moisture.

GUARANTEE

All Hegel products come with a 2-year guarantee against defective materials and workmanship.

In case you should need assistance with your Hegel product please find your nearest dealer or distributor by looking at the Hegel web site <http://www.hegel.com>.

If you should have any problems locating your dealer or distributor please e-mail info@hegel.com

