



MUSIC SYSTEMS

**Hegel H300**  
**High End Integrated Amplifier**

User manual

## **USER GUIDE**

Congratulations with your new HEGEL product!

All Hegel products are based on a simple philosophy:

The audio reproduction instrument shall reproduce the original musical sound, purely and naturally.

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

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

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

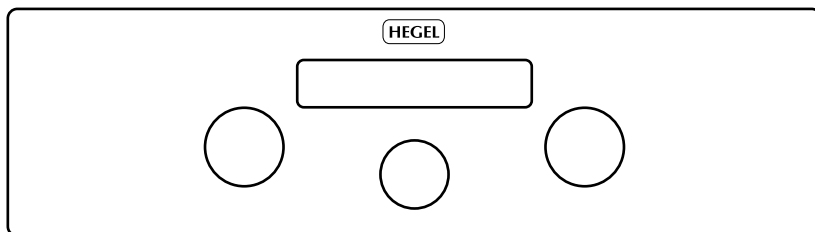
Our aim is to give you the best possible music experience!

## **SOUND ADVICE**

The Hegel H300 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



### On/Off

The H300 amplifier is switched on and off with the power button in the middle of the front panel. When powered up, the H300 will use 5 seconds to calibrate. During this time, the outputs will be muted.

*NOTE: When powered up the outputs will be muted and the right hand part of the display will flash for approximately 5 seconds, indicating mute. This is normal, and is part of the start-up procedure.*

*NOTE: When the H300 has been switched off, the amplifier should not be switched back on again before 30 seconds has passed.*

### Display

The left-hand part of the display normally shows the selected source input, while the volume value is shown in the right-hand part of the display. A flashing volume value indicates that the amplifier is in mute setting.

### Source Selector

The input source selector knob is on the left-hand side of the front panel. The three letters in the left-hand part of the display will show the selected source input.

### 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 part of the display. The H300 will power up with a preset volume value. The volume level can be adjusted by turning the volume knob clockwise or counter clockwise, or by using the RC8 remote control.

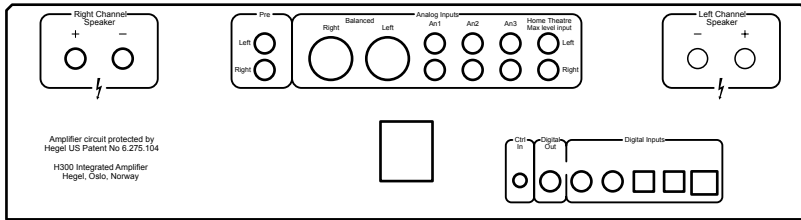
### Mute

When the mute button on the RC8 remote control is pressed the speaker outputs and Pre Out output are muted. A flashing volume number in the display indicates that mute is on. Press the mute button again to switch mute off.

### Home Theater

The Home Theater input is a fixed volume level input with the volume setting permanently set to a high volume value. This input is available for connecting the H300 to a surround processor with internal adjustable volume. Do not connect input sources such as CD-players, DVD-players, DACs or similar signal sources to the Home Theater input. Connecting a fixed level signal source directly to the Home Theater input, can cause severe damage to the amplifier and connected loudspeakers.

## CONNECTIONS



Rear side view of the H300 Integrated amplifier.

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

Connections from top left:

Speaker outputs Right channel.

Pre Out, volume controlled preamp output Phono / RCA, left / right

Balanced signal input XLR left / right input

An1 input Phono / RCA, left / right

An2 input Phono / RCA, left / right

An3 input Phono / RCA, left / right

Home Theater input, fixed high gain input, Phono / RCA, left / right

Speaker outputs Left channel.

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

IR-direct input.

Digital Output Coaxial / RCA

Coax1 - Digital input Coaxial / RCA

Coax2 - Digital input Coaxial / RCA

Optical1 - Digital input TOSLINK / EIAJ Optical

Optical2 - Digital input TOSLINK / EIAJ Optical

USB - Computer input

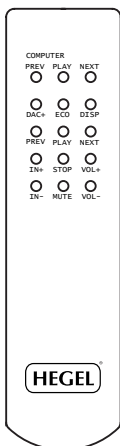
H300 has two types of analogue audio connections: unbalanced audio signal with RCA connectors (Phono connectors) and true balanced audio signal with XLR connectors (pin 2 is positive phase, pin 3 is negative phase and pin 1 is chassis earth).

## REMOTE CONTROL - RC8

The Hegel H300 can be operated from the included Hegel system remote control RC8. Like other Hegel products, the number of buttons on the RC8 is kept to a minimum.

The Hegel system remote control will also control other Hegel products like CD-players, DACs and preamplifiers, avoiding the need for several different remote control devices.

Remote control buttons (starting top left)



1. Skip to previous track on most computers/media players
2. Play/Pause on most computers/media players
3. Skip to next track on most computers/media players
4. Input source selector button for Hegel DACs
5. ECO – will put certain Hegel equipment in low power mode
6. Display on/off (hold for off)
7. Skip to previous track on Hegel CD-players
8. Play/Pause for Hegel CD-players
9. Skip to next track on Hegel CD-players
10. Switches up to next input on your Hegel amplifier
11. Stop/Eject for Hegel CD-players
12. Volume up for Hegel amplifiers
13. Switches down to previous input on your Hegel amplifier
14. Mute for Hegel amplifiers
15. Volume down for Hegel amplifiers

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. Do not use a “Poizdrive” cross head screwdriver, it may 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.

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. Do not tighten the screws to hard, as this may damage the screws and the soft metal body of the remote control.

Please do not drop the remote control down on the floor or any hard surface, as this may damage internal parts of the remote control.

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.

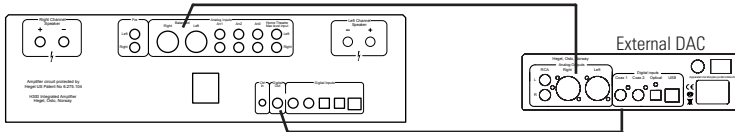
## SPECIAL FUNCTIONS

### Display On/Off

The DISP button on the RC8 remote control may be used to turn the display of the H300 on or off. Holding the DISP button for more than 1 seconds will turn the display off, while giving the button a shorter push will turn the display on.

### DAC-loop

This function makes it possible to upgrade the digital inputs of the H300 with an external high-end DAC. This is done by connecting the re-clocked coaxial digital output of the H300 to the external DAC. The output of the external DAC will need to be connected to the balanced input of the H300.



With the DAC-Loop activated and a digital source input selected, the H300 will enable the selected digital source input while selecting the balanced source input as the active input.

This makes the external DAC able to receive the re-clocked digital signal, convert it and send it back to the H300 through its balanced input.

The DAC-Loop is activated/deactivated by holding the DAC+ button of the RC8 while pressing the IN+ button. A dot after the last digit of the displayed source input will indicate that DAC-Loop is activated. When selecting a digital source input with DAC-Loop activated, the display will read BAL for a short time. This indicates that both the selected digital input and the balanced input are active.

### IR in

The IR in connection is a remote control input that may be connected to a wired remote control system or an IR repeater. This input may be used to control the H300 in the same way that a Hegel remote control would.

### Set Power Up Volume

A user defined volume value may be used as the power up volume.

As a precaution the power up volume value is limited to a maximum level.

The current volume is set as the power up volume by pressing and holding the DAC+ button while pressing Vol- on the RC8 remote control.

### Reset to factory default settings

By pressing and holding the DAC+ button while pressing Mute on the RC8, the H300 will be reset to factory settings. This will clear all user defined settings and reinitialize the H300.

## TRANSPORT AND SHIPMENT

If you are packing the amplifier for shipping, please follow these instructions to avoid damaging the unit:

Be careful not to hold the volume- and source-knobs when lifting the amplifier.

Put the plastic bag around the amplifier. Make sure that the plastic bag does not press tightly on the knobs as this may damage them during transportation.

Place the two bottom shock absorbers into the original cardboard box, one in each end of the box. Place the amplifier into the cardboard box, fitting the shock absorbers. Place the top shock absorbers on top of the amplifier.

Make sure the plastic bag is still loose around the volume and source knobs to avoid any damage to the knobs during transport. Close the cardboard box using a suitable tape.

## CLEANING

Fingerprints or stains on the front panel or top cover can be removed with a cloth moistened with warm water or a mild detergent suitable for cleaning mirrors and windows.

## TECHNICAL SPECIFICATIONS

### H300 Integrated Amplifier

Power output            250W + 250W in 8 Ohms, Dual mono  
Minimum load            2 ohms

Analog Inputs            1\*balanced (XLR), 3\*unbalanced (RCA), 1\*Home Theatre (RCA)  
Digital Inputs            2\*coaxial S/PDIF, 2\*optical S/PDIF, 1\*USB.  
Line level Output        Unbalanced Pre Out (RCA)  
Digital Output            Coaxial S/PDIF out (digital inputs only)  
Other Connections        Direct IR in - 3,5mm jack, max 12V

Frequency response     5Hz-180kHz  
Signal-to-noise ratio    More than 100dB  
Crosstalk                Less than -100dB  
Distortion                Less than 0.01% @ 100W 8 Ohms 1kHz  
Intermodulation         Less than 0.01% (19kHz + 20kHz)  
Damping factor          More than 1000 ( main power output stage )  
Dimensions                12cm x 43cm x 38cm (HxWxD), 25kg shipment weight.

## **WARNING**

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

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

The products must not be exposed to rain or moisture.

## **WARRANTY**

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

In case you would need any 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 experience any problems locating your dealer or distributor please contact [info@hegel.com](mailto:info@hegel.com)

## **ADDITIONAL INFORMATION**

For additional information, please visit [www.hegel.com/h300\\_qa.htm](http://www.hegel.com/h300_qa.htm)

## **USE & PLACEMENT**

The HEGEL H300 should be placed on a flat, hard surface for proper cooling. The amplifier performs best after being switched on for about 1 hour for heating up. A certain space is required for air circulation above and below the amplifier. The amplifier must never be placed on a carpet or similar surface that obstructs air circulation through the unit. Nor must it be covered while in use or placed on a narrow shelf or in another confined space.

The amplifier will automatically switch itself off if overheated.

The amplifier will need some break-in time before maximum sound quality can be experienced. Never lift the H300 by holding around the volume knob or input selector knob. The H300 is heavy, and applying pressure may damage the knobs.



[www.hegel.com](http://www.hegel.com)