



U360 User Manual

HEGEL

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Congratulations, with your new Hegel H360, our best integrated amplifier. All Hegel products are based on a simple philosophy: Add as little as possible. Keep the music signal as close to the original as possible. We always chase lower distortion and lower noise. The music is reproduced as close to the original as possible and is limited only by the quality of the recording. Our aim is to give you the best possible music experience. Our minimalistic Scandinavian design is styled to fit in with any interior. The products shall be easy to operate and shall be manufactured according to the best quality principles.

“When we started planning the new H360 we really wanted to push the boundaries on what could be done with an all-in-one product. There is the conflict of the demand for connectivity and user friendliness competing with value for money in terms of sound quality. We are proud to claim that the H360 sets a new standard for what can be achieved. You can connect virtually any source/device and control it almost any way you like. As a music reproducer it is second to none in its class. Much thanks to the newest SoundEngine design, and implementation of the best components and technology available.”

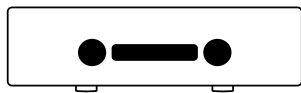
A handwritten signature in black ink, which appears to read 'Bent Holter'. The signature is stylized with a long, sweeping line extending to the right.

Bent Holter
Founder Hegel Music System

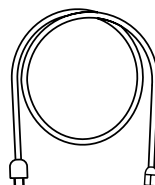
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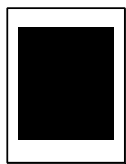
What's in the box



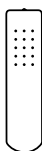
Amplifier



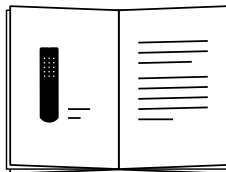
Power Cord



Accessory Box



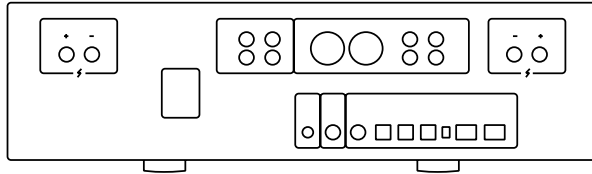
Remote
Control



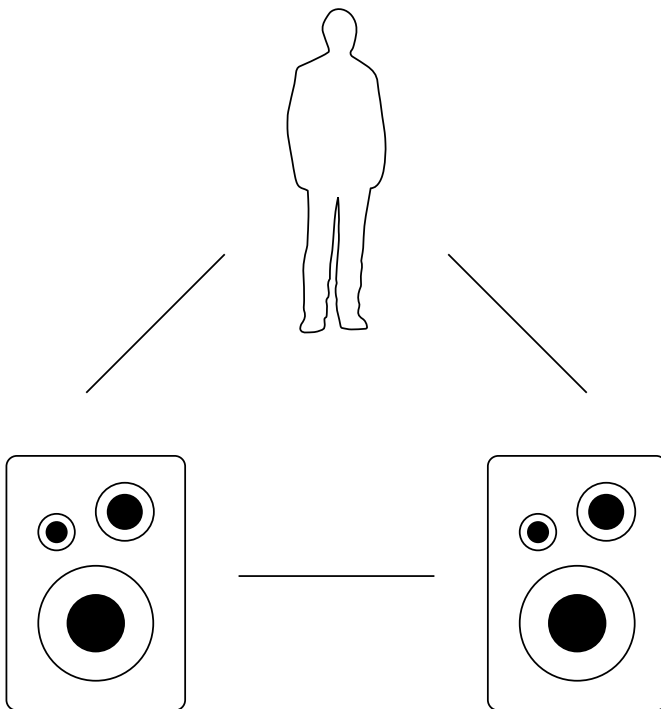
User Manual

Quickstart

1. Connect your speakers

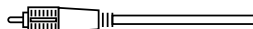


For the best audio experience the distance between the listener and each speaker should be the same.

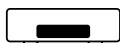


Quickstart

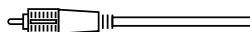
2. Connect a source



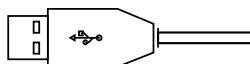
Unbalanced Analog



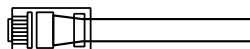
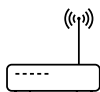
Balanced Analog



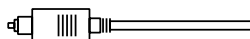
Coaxial Digital



USB Computer



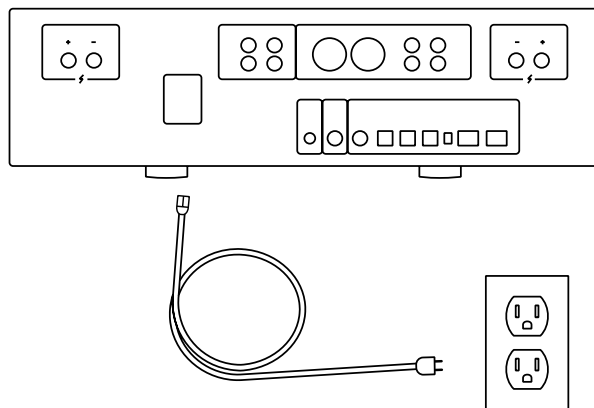
Network streaming



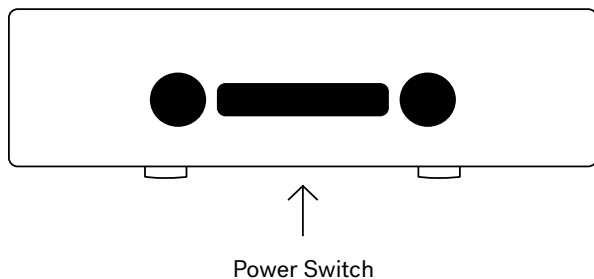
Optical Digital

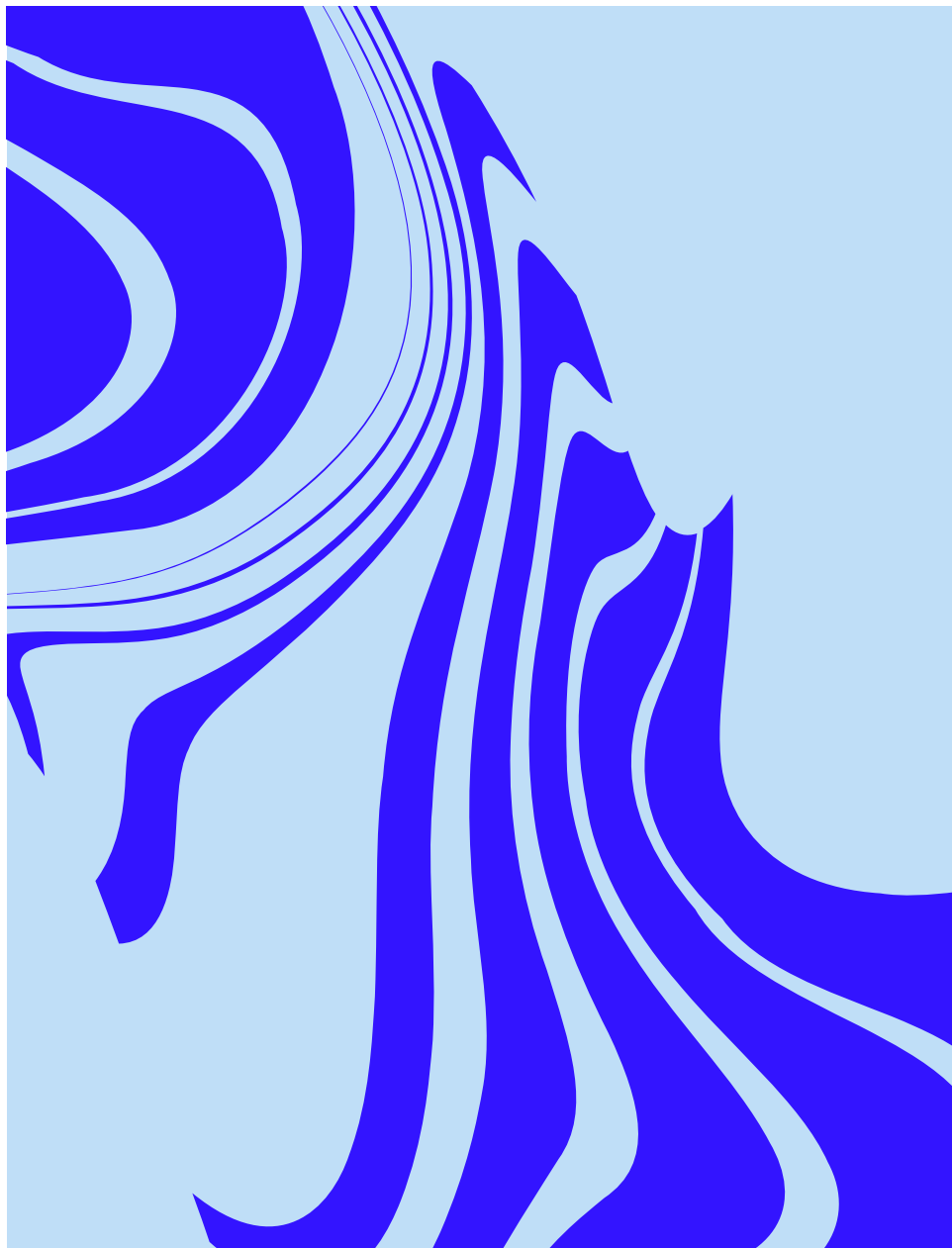
Quickstart

3. Connect the power cord



4. Turn on the amplifier

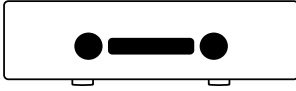




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General Use



On/Off

The H360 amplifier is switched on and off with the power button, located on the underside of the amplifier, in the center, toward the front of the unit. When powered up, the H360 takes a few seconds to calibrate. During this time, the outputs are muted.

NOTE: When powered up, the outputs are muted and the right hand part of the display flashes for a few seconds, indicating mute. This is normal, and is part of the start-up procedure.

NOTE: When the H360 has been switched off, wait 30 seconds before powering on again.

Display

The left side of the display shows the selected source input, while the volume value is shown on the right side of the display. A flashing volume value indicates the amplifier is in mute mode.

Source Selector

The input source selector knob is on the left side of the front panel. The three letters indicate the selected source input.

Volume

The volume control knob is on the right side of the front panel. The volume level is indicated by a number between 0 and 99 on the right side of the display, with 0 being the mute level and 99 being max volume. The H360 powers up with a preset volume value. The volume level is adjusted by turning the volume knob clockwise or counter clockwise, or by using the Hegel remote control.

Mute

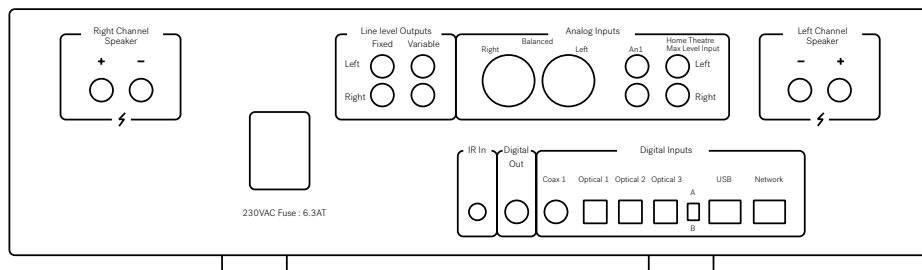
Pressing the mute button on the Hegel remote control mutes the speaker outputs and the variable line output. The volume number flashes to indicate that mute is on. Press the mute button or adjust the volume level to switch mute off.

Status Indicators

The Hegel H360 will display the product status.

- If it is connected to a network, a period will light up in the lower right corner of the display
- If there is a network problem, a period will flash in the lower right corner of the display.
- If there is a firmware issue, "Err" + error

Connections



Always power the amplifier off before connecting input/output audio cables and the power cable.

Speakers

- Right outputs
- Left outputs

Line Level Outputs

- Fixed Line level (RCA)
WARNING High level output.
- Variable Line Level (RCA)

Analog Inputs

- Balanced (XLR): Standard balanced analog input (Pin 1 is Chassis Ground; Pin 2 is Positive Phase; Pin 3 is Negative Phase)
- An1(RCA): Standard analog input

- Home Theatre (RCA): Fixed level input for integration with Home Theatre.

AC Power Connection

- AC Power connector with fuse holder: 230V/115V/100V AC depending on country.

IR

- Direct IR in – 3.5 mm jack, max 12V

Digital Connections

- Output Coaxial / RCA
- Coax1: Input Coaxial/RCA
- Optical1: Input TOSLINK/EIAJ Optical
- Optical2: Input TOSLINK/EIAJ Optical
- Optical3: Input TOSLINK/EIAJ Optical
- USB Mode selector switch
- Computer USB input
- Home network connection (LAN - RJ45)

Network Configuration

On the Network Configuration page you can setup the Hegel H360. You can change the name, the IP settings and update the firmware.

To access the setup page on a PC open the network settings, under Media devices the Hegel H360 will appear. If the Hegel H360 does not appear, make sure the network is setup to hand out IP addresses automatically. When you click on the Hegel H360 Network Configuration page opens.

To access the setup page on a MAC, open the Safari browser. Under bookmarks you will find the Bonjour tab, and here the Hegel H360 will appear.

Make sure you have included the Bonjour in the Bookmarks Menu (Preferences -> Advanced -> Bonjour).

Playing Files on a Network Device

The Hegel H360 can function as a DLNA Digital Media Renderer. This means that it can receive and play media files from a UPnP/DLNA compatible media player.

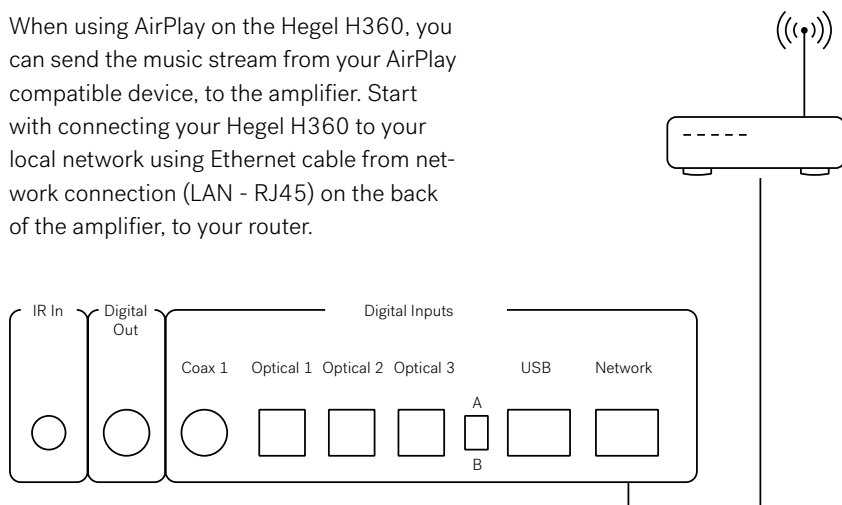
For details on how to set up your media player, please refer to the user manual supplied with the player.

The Hegel H360 supports the following formats from a UPnP/DLNA compatible player: PCM (WAV/AIFF), FLAC, Ogg and MP3.

For more tips and tricks about how to use the H360 with a NAS drive, DLNA players and other software solutions, please go to www.hegel.com/products/integrated/H360.

Using AirPlay

When using AirPlay on the Hegel H360, you can send the music stream from your AirPlay compatible device, to the amplifier. Start with connecting your Hegel H360 to your local network using Ethernet cable from network connection (LAN - RJ45) on the back of the amplifier, to your router.



Make sure the Hegel H360 is connected to your network.

When connected, the unit will set up to DHCP, and will automatically receive an IP-address and then integrate in your home network. All AirPlay compatible devices will now detect the Hegel H360 in their list of AirPlay speakers, it will be displayed as "H360", followed by a unique number.

To activate the AirPlay function on your AirPlay compatible device, you must first make sure the device is connected to the same network as the Hegel H360. For details on this please check the device manual. Then the AirPlay icon will be displayed and you can select the H360. You are now ready to send the music stream to your amplifier.

Playing from iTunes on your Hegel H360. Install iTunes 11, or later, on your Mac or Windows computer. Launch iTunes, press the AirPlay Logo, and select the H360. You can also play to more than one speaker at a time, select the AirPlay logo, then "multiple" and check of the speakers that you want to listen to. You can also adjust the volume on each individual speaker.

[WARNING: After selecting the H360 as the output, always remember to check the iTunes volume-setting before pressing play. The H360 will change its volume to the volume set in iTunes, when iTunes starts playing to the H360.](#)

Remote Control - RC8

The Hegel H360 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

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 "Pozidrive" cross head screwdriver, it may damage the head of the screws.

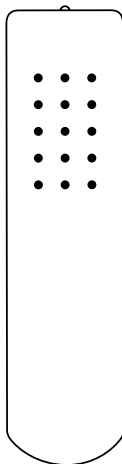
Be sure to insert the batteries with the cor-

rect 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.



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

Special Functions

Display On/Off

The DISP button on the RC8 remote control may be used to turn the display of the H360 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 H360 with an external high-end DAC. This is done by connecting the re-clocked coaxial digital output of the H360 to the external DAC. The output of the external DAC will need to be connected to the balanced input of the H360.

With the DAC-Loop activated and a digital source input selected, the H360 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 H360 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

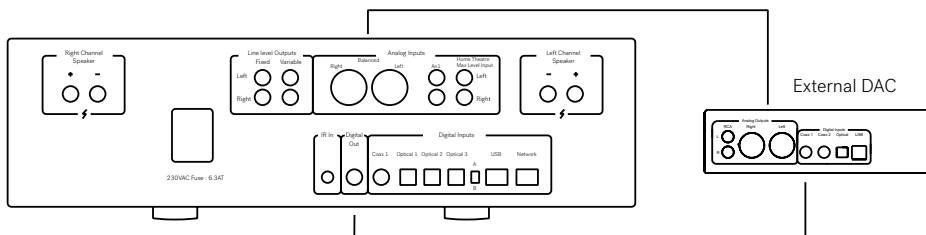
indicate that DAC-Loop is activated. When selecting a digital source input with DAC-Loop activated, the display will read BAL for a short time. This indicates that both the selected digital input and the balanced input are active.

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 H360 in the same way that a Hegel remote control would.

Home Theatre or Standard Analog Input

The Home Theatre can be switched over to a standard Analog input. Use the RC8 remote to change settings. Hold computer play until the display changes. The display is now displaying a very primitive menu. Use computer prev/next to navigate so the display shows either HT or An. Switch between HT and An by pressing the computer play button. Now don't press anything for 15sec, and the H360 will return to normal mode.



Special Functions

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.

Max Volume

A user defined volume value may be used as the max volume.

The current volume is set as the max volume by pressing and holding the DAC+ button while pressing Vol+ on the RC8 remote control. To reset, put to max volume, press 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 H360 will be reset to factory settings. This will clear all user defined settings, including IP settings, and reinitialize the H360.

[WARNING: If Home Theater is configured as AN2, this will go back to Home Theater, HIGH volume.](#)

USB Mode Setting:

The USB mode selector switch on the rear panel determines the mode setting of the USB audio interface. Please note that the USB connector must be disconnected before changing this setting.

With the switch set to "A" (default), the USB audio interface is set to plug & play mode, and up to 96kHz and 24bits resolution can be achieved.

With the switch set to "B", the USB audio interface can achieve up to 192kHz and 24bits resolution, and native DSD64 and DSD128. B mode is plug & play when using MAC, with the exception of DSD. With DSD you need additional software, please consult the H360 section of the Hegel website. If you are using a PC, running a Windows operating system, an additional driver has to be installed on the computer for both PCM and DSD. To download and install the driver, please consult the H360 section of the Hegel website.

MAC Troubleshooting:

After installation you may need to go to "System Preferences – Sound – Output" and choose your USB Audio DAC as the output device.

General Information

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.

Make sure the bottom shock absorber is placed at the bottom of the original cardboard box.

Place the amplifier into the shock absorber. Place the top shock absorber 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

H360 Integrated Amplifier

Power output	2*250W in 8 Ohms, 2*420W in 4Ohms, Dual mono
Minimum load	2 ohms
Analog Inputs	1*balanced (XLR), 1*unbalanced (RCA), 1*Home Theatre (RCA)
Digital Inputs	1*coaxial S/PDIF, 3*optical S/PDIF, 1*USB, 1*Network
Line level Output	1*unbalanced fixed(RCA), 1*unbalanced variable(RCA)
Digital Output	Coaxial S/PDIF out (digital inputs only)
Other Connections	Direct IR in - 3.5 mm 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 4000 (main power output stage)
Dimensions	15cm x 43cm x 38cm (HxWxD), 25kg shipment weight. 6" x 17" x 15" (HxWxD), 55lbs shipment weight.

Additional Information

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

More Information

For more information, please visit www.hegel.com/products/integrated/H360

Use and Placement

The HEGEL H360 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

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 H360 by holding around the volume knob or input selector knob. The H360 is heavy, and applying pressure may damage the knobs.



AirPlay works with iPhone, iPad and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion or later, and PC with iTunes 10.2.2 or later.

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

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Manual version 5



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