

## H190 User Manual





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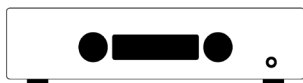
Congratulations, on your new Hegel H190. All Hegel products are based on a simple philosophy: Add as little as possible. Keep the music signal as close to the original as possible. We always chase lower distortion and lower noise. The music is reproduced as close to the original as possible and is limited 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 manufactured according to the best quality principles.

“Hegel H190 replaces the Hegel H160, one of our all time best sellers, and the first EISA Award winning product from Hegel. The new H190 has newer features, updated design and sounds much better. The new soundengine gives it better woofer control with a damping factor of more than 4000. A bigger soundstage, more details, clearer sound and the ability to play loud longer, on bigger speakers than the H160 could. Hope you enjoy it as much as we do.”

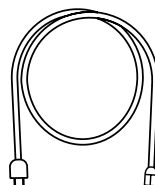
A handwritten signature in black ink, which appears to read 'Bent Holter'.

Bent Holter  
Founder Hegel Music System

## What's in the box



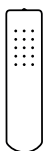
Amplifier



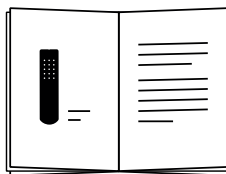
Power Cord



Accessory Box



Remote  
Control



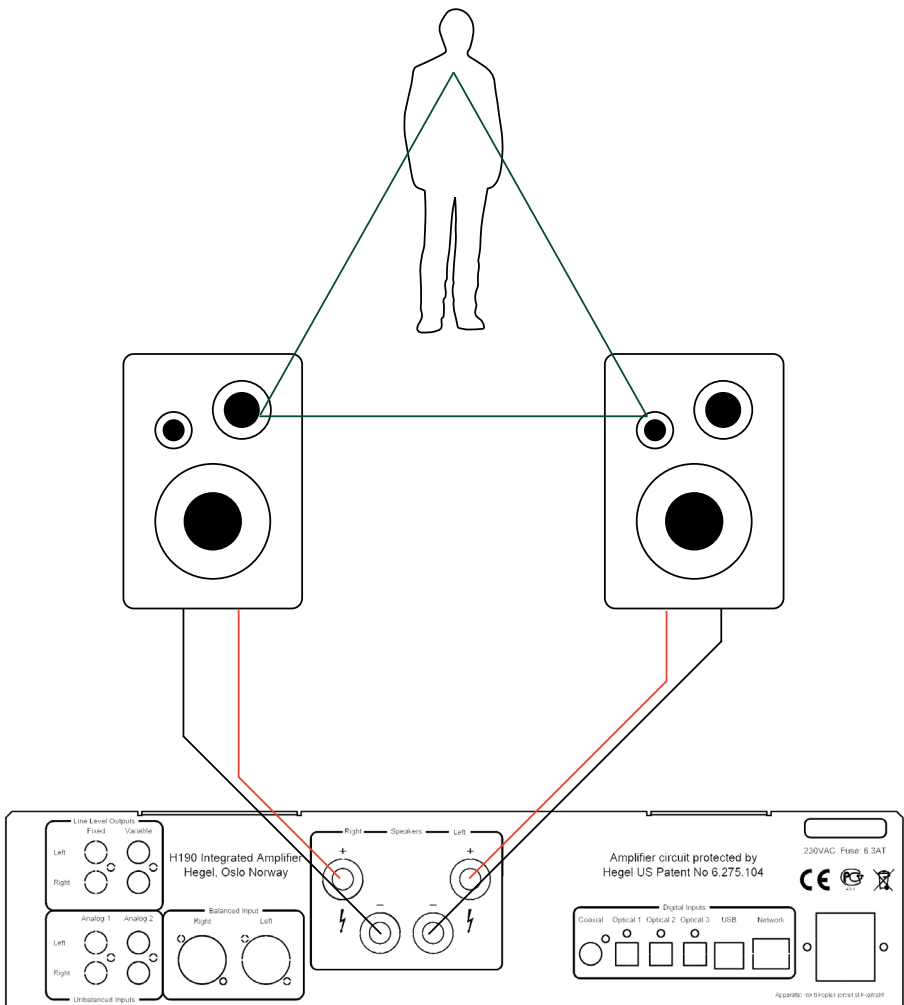
User Manual



# Quickstart

## 1. Connect your speakers

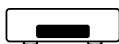
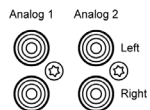
For the best audio experience the distance between the listener and each speaker should be the same.



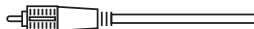
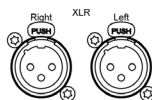
## 2. Connect a source



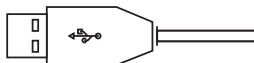
Unbalanced Analog



Balanced Analog

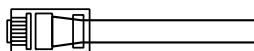


Coaxial Digital



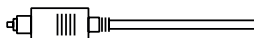
USB Computer

USB

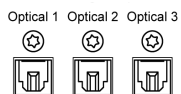


Network streaming

Network

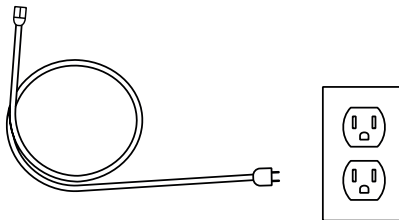
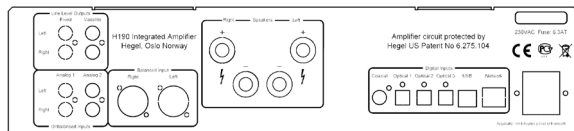


Optical Digital

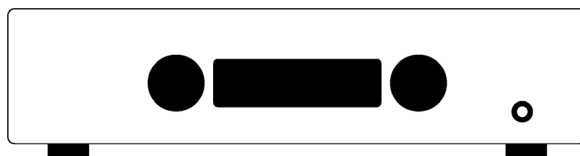




### 3. Connect the power cord

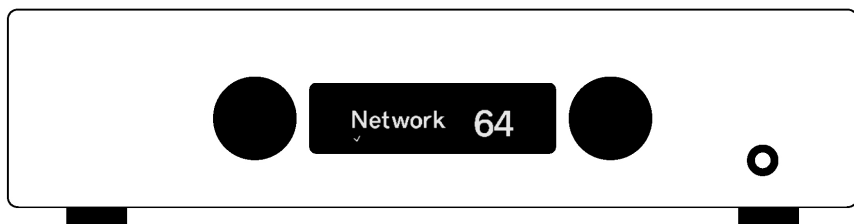


### 4. Turn on the amplifier



↑  
Power Switch

## General Use



### Operating the H190

The source and volume can be changed using the input and volume selector on the front panel or using the remote control.

### Power Button

The H190 amplifier can be switched on and off with the power button located on the underside of the amplifier, towards the front of the unit.

**NOTE:** When powering up, the H190 takes a few seconds to calibrate, the outputs are muted and the volume flashes to indicate that mute is on. This is normal and is part of the start-up procedure.

**NOTE:** When the H190 has been switched off, wait 30 seconds before powering it on again.

### Headphone Output

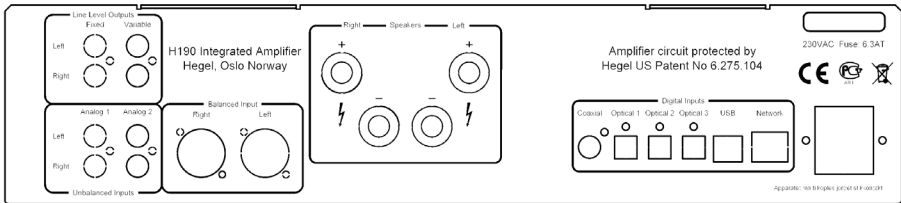
Connect the 6.3mm headphone jack to the front of the H190. This activates the headphone volume control and mutes the speaker outputs.

**NOTE:** Variable Line Output is still active.

### Sleep/Auto standby

In compliance with the EU Energy Efficiency Directive the Hegel device will automatically switch off after 15 minutes without sensing a signal, or with very low signal on the speaker outputs. You can disable or change the Sleep/ Auto Standby settings in the device's menu.\*

# Connections



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

## Line Level Outputs

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

## Analog Inputs

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

If you want to connect the amplifier to a Home Theater system, see Device Menu

## Speakers

- Right outputs
- Left outputs

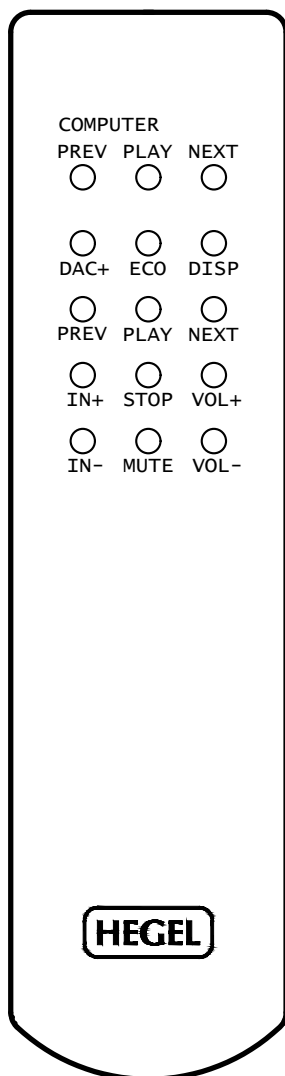
## Digital Connections

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

## AC Power Connection

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

## Remote Control - RC8



### Remote control buttons (starting top left)

1. PREV Skip to previous track on most media players
2. PLAY Play/Pause on most media players
3. NEXT Skip to next track on most media players
4. DAC+ Input source selector button for Hegel DACs
5. ECO On/Off (standby)
6. DISP Display on/off (hold for off)
7. PREV Skip to previous track on Hegel CD-players
8. PLAY Play/Pause for Hegel CD-players
9. NEXT Skip to next track on Hegel CD-players
10. IN+ Switches to next input on Hegel amplifiers
11. STOP Stop/Eject for Hegel CD-players
12. VOL+ Volume up for Hegel amplifiers
13. IN- Switches to previous input on Hegel amplifiers
14. MUTE Mute for Hegel amplifiers
15. VOL- Volume down for Hegel amplifiers

## General information

The Hegel amplifier can be controlled with the included Hegel RC8 Remote Control.

The RC8 controls Hegel products, such as amplifiers and preamplifiers, and most media players, avoiding the need for multiple remote controls

The remote control uses two standard 1.5-volt LR03 AAA batteries. To insert the batteries, use a crosshead (Phillips) screwdriver to gently remove the four screws on the underside of the remote control.

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

Replace the cover. Insert the screws by gently turning them by hand, to avoid damaging the threads in the remote control chassis.

Do not tighten the screws too much, as this can damage the screws and the soft metal chassis of the remote control.

**CAUTION:** Do not drop the remote control on the floor, as this can damage its internal parts and the battery holder.

## Mute

The MUTE(14) button mutes the outputs on the amplifier. The volume flashes to indicate that mute is on. Press the mute button, or adjust the volume level, to switch mute off.

## On/Off (standby)

The ECO(5) button will turn the amplifier on or off (standby).

## Display On/Off

The DISP(6) button may be used to turn the display on or off. Hold the DISP button for more than 1 second to turn the display off. When adjusting inputs or volume the display will light up momentarily. To turn the display on again, press DISP.

## Set max startup volume

When powering on the amplifier, the volume will automatically be set to the same level as when the amplifier was switched off. To prevent the amplifier from powering up at an unwanted volume level, it is possible to set a user defined max startup volume. Adjust the volume to the desired max startup volume. Press DAC+(4) and VOL-(15) simultaneously. The volume indicator will blink three times and the new max startup volume has been saved.

## Set max volume level

A user defined volume level may be used as the amplifier's maximum output volume. Adjust the volume to the desired maximum level (e.g., volume 59). Press DAC+(4) and VOL+(12) simultaneously. The volume indicator will change to "100 Damped". The volume level on volume 100 is now damped to your chosen setting (e.g., volume 59). To reset to the default max volume level, turn the volume all the way up to "100 Damped" and press DAC+ and VOL+. The volume indicator will change back to the level that was set as the max volume (e.g., volume 59). The max volume has been reset to default.

## Reset to Factory Default Settings

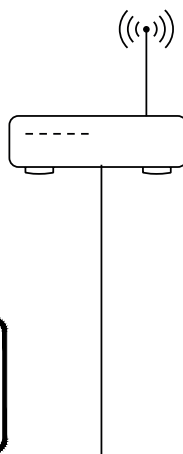
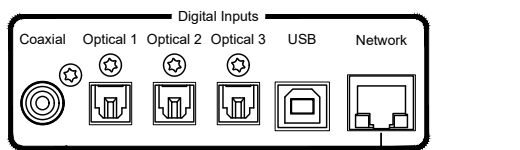
By pressing and holding the DAC+(4) button while pressing MUTE(14), the amplifier will be reset to factory settings. This can also be done from the device menu

## Network Setup

### Connection

To be able to use the amplifier's network and streaming features, the amplifier needs to be connected to your local network.

Connect your Hegel amplifier using an Ethernet cable (not supplied) from the network connection (LAN - RJ45) port on the back of the amplifier, to your router.



### Network settings

The amplifier has its own Network Configuration page where you can change the amplifier's network name and IP settings.

To open the page, enter your amplifier's IP address in a browser window.

You can find the IP address in the amplifier's menu under "Network".

For detailed information on the Network Configuration page, supported formats and much more, please visit [support.hegel.com](https://support.hegel.com)



**NOTE:** Some of the features of the Hegel device require an internet connection.

### Wake up on Network

Even when the amplifier is in standby mode the network connection is active. The amplifier can be woken up from standby by starting playback to the Hegel.

### Status Indicators

The Hegel device will display the network status in the lower left corner of the display.

Network status is OK:



Network status is not OK:



### Troubleshooting

If you experience problems with connecting the amplifier to the network or have other network issues, please try the following:

Disconnect the power chord for at least 30 seconds and then reconnect.

If that does not help, try the following:

Enter the amplifier menu and select factory reset.

## Streaming

### AirPlay

With Apple AirPlay you can stream audio from an AirPlay compatible device to the Hegel device.

Choose the Hegel device in the list of AirPlay speakers. Go to [support.apple.com](https://support.apple.com) to learn how.



### Spotify Connect

Spotify is a digital music, podcast, and video streaming service that gives you access to millions of songs and other content from artists all over the world. You can stream audio from Spotify to the Hegel device.

Use your phone, tablet or computer as a remote control for Spotify.

Go to [spotify.com/connect](https://spotify.com/connect) to learn how.



### Roon Ready

Roon is a music management and listening solution which is dedicated to high sound quality and exceptional user experience.

You can stream audio from Roon to the Hegel device. Go to [roonlabs.com](https://roonlabs.com) to learn more and to register for a free trial period.



### UPnP/DLNA

UPnP stands for Universal Plug and Play and is a widely used media streaming protocol that is supported by a host of media player products and applications. The Hegel device functions as a digital media renderer. When using UPnP/DLNA you can stream from locally stored files or music streaming services to the Hegel device. For details on how to set up your media player, please refer to the user manual supplied with the player.

### WARNING:

When streaming to the Hegel device, always remember to check the player/device volume-setting before pressing play. The Hegel device will change its volume to the volume set in the player.

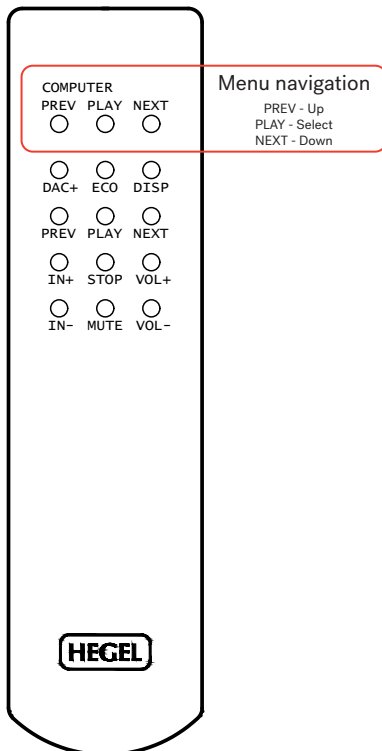


## Device Menu

### Navigation

To enter the device menu, turn the amplifier on and press and hold the PLAY(2) button for 5 seconds. To navigate the menu, use the PREV(1) and NEXT(3) buttons. To select a sub-menu or feature, press the "PLAY(2) button. To exit the menu, navigate to "Exit" and press PLAY(2), or turn one of the amplifier's knobs.

**NOTE:** Some menu features require connection to the internet to work properly. See Network Setup



### Info

Information about the Hardware Version of your product and the Software Version currently running.

### Network

Information about the Network Device Name and the IP Address of your product.

### Update

Check for and download the newest software for your product.

### Sleep

By default, the amplifier will automatically switch itself off after 15 minutes without music, or with very low signal on the speaker outputs. Sleep / Auto off can be disabled in this menu.\*

### Reset

Here you can reset the product to the default factory settings. This includes volume and IP settings. The reset will not affect any software updates you have installed

### HT

Most inputs can be configured to act as a Home Theater input. This will set the input volume at a fixed high volume level.

**NOTE:** The Hegel device menu can be updated with new features and options.

For an up to date and in-depth description of the menu and its features, please visit [support.hegel.com](https://support.hegel.com)



## Miscellaneous

### Using the USB Connection

When you connect your Hegel device to a computer with a USB cable (not included), the Hegel will automatically install itself as a USB soundcard on all newer versions of Windows, macOS, and most Linux operating systems.

**NOTE:** The first time you connect your computer to your Hegel device, connect the computer to the internet and close all media players.

### Troubleshooting with macOS

The Hegel device is connected, but there is no sound: Go to System Preferences – Sound – Output and select “TE7022 Audio w/ SPDIF” as the Output Device.

### Connecting a subwoofer

The most common way to connect a subwoofer is from the variable line output on your Hegel amplifier. If your subwoofer is equipped with “high level” speaker wire terminals you can also use this. Many subwoofer manufacturers recommend this type of connection if it is available.

Please consult your subwoofer manual for detailed instructions on how to connect and configure your subwoofer for the best audio result.

### Power

All electrical components should be turned off or in standby when not in use. This due to safety, because all electrical components can fail, and it is good for the environment. Leaving your product on all the time could also shorten the life expectancy of the product.

That being said, our products sound even better when they are warmed up, typically after about 15 minutes of listening at a moderate volume.

### Connecting your TV

The best way to connect your TV is by using one of the optical inputs. If there is no sound, try changing the sound output in the TV’s settings menu. The setting should be changed to PCM or stereo. Please consult your TV’s manual for detailed instructions.

## General Information

### Technical Specifications H190 Integrated Amplifier

Power output	2*150W in 8 ohms
Minimum load	2 ohms
Analog Inputs	1*Balanced (XLR), 2*Unbalanced (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)
Frequency response	5Hz-100kHz
Signal-to-noise ratio	More than 100dB
Crosstalk	Less than -100dB
Distortion	Less than 0.01% @ 50W 8 Ohms 1kHz
Intermodulation	Less than 0.01% (19kHz + 20kHz)
Damping factor	More than 4000 (main power output stage)
Dimensions	12cm x 43cm x 41cm (HxWxD) 19kg shipment weight. 7,72" x 16,93" x 16,15" (HxWxD) 41,89 lbs shipment weight.

### Transport and Shipment

When packing the amplifier, please follow these instructions to avoid damaging the unit: Be careful not to hold the volume- and source-knobs when lifting the amplifier.

Insert the amplifier into the plastic bag. Ensure the plastic bag does not press tightly on the knobs as this may damage them during transportation.

Place the amplifier into the shock absorbers. Place the amplifier with absorbers into the original cardboard box.

### Use and Placement

The Hegel amplifier should be placed on a flat, hard surface for proper cooling. The amplifier must never be placed on a carpet or similar surface as this obstructs air circulation through the unit. For the same reason, the amplifier should have sufficient clearing above, and never be covered while in use.

The amplifier will automatically switch itself off if overheated. When it cools down the amplifier turns back on and the volume is set to 0.

### 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.

## 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 warranty.

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. The warranty is limited to the region where it was originally purchased. There is no need for registering the warranty. The purchase receipt will work as a start date for the warranty.

In case you need assistance with your Hegel product, please contact your nearest dealer or distributor. These are listed on [www.hegel.com](http://www.hegel.com). Our dealers are carefully chosen for their expertise and should be able to help you with any Hegel related issue. You can of course always reach us directly by sending an email to [info@hegel.com](mailto:info@hegel.com) or by contacting us on our social media pages.

For more information about the H190, please visit [www.hegel.com](http://www.hegel.com)



## Acknowledgements

The Spotify Software is subject to third party licenses found here:

[www.spotify.com/connect/third-party-licenses](http://www.spotify.com/connect/third-party-licenses)

AirPlay works with iPhone, iPad, and iPod touch, or Mac and PC with iTunes.

Use of the "Works with Apple AirPlay" badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

Apple AirPlay, iPad, iPhone, iPod touch, Mac and macOS are trademarks of Apple Inc., registered in the U.S. and other countries. The trademark "iPhone" is used in Japan with a license from Aiphone K.K.

Being Roon Ready means that Hegel uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.

\* Depending on market, versions of this amplifier exist with and without Sleep/Auto standby. Sleep/Auto standby has no bearing on sound quality or connectivity.



V7



