

## H120 User Manual





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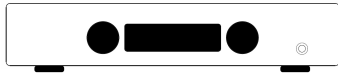
Congratulations on your new Hegel H120.

All Hegel products are based on a simple philosophy: Add as little as possible. We always aim to keep the music signal close to the original recording. We are constantly looking for ways to lower distortion and noise. By lowering noise, we unveil layers of music covered by noise. And by lowering the distortion we can have a better and more precise reproduction of the recording. We work hard to give you the best possible music experience. Our minimalistic Scandinavian design is styled to fit in with any interior. The products are easy to operate and manufactured according to the best quality principles.

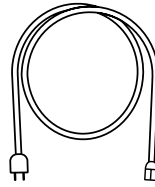
A handwritten signature in black ink, consisting of stylized, overlapping letters that appear to read 'Bent Holter'. The signature is written in a cursive, fluid style.

Bent Holter  
Founder Hegel Music System

## What's In The Box



Amplifier



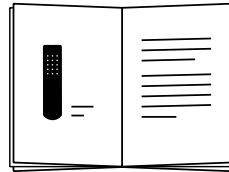
Power Cord



Accessory Box



Remote Control

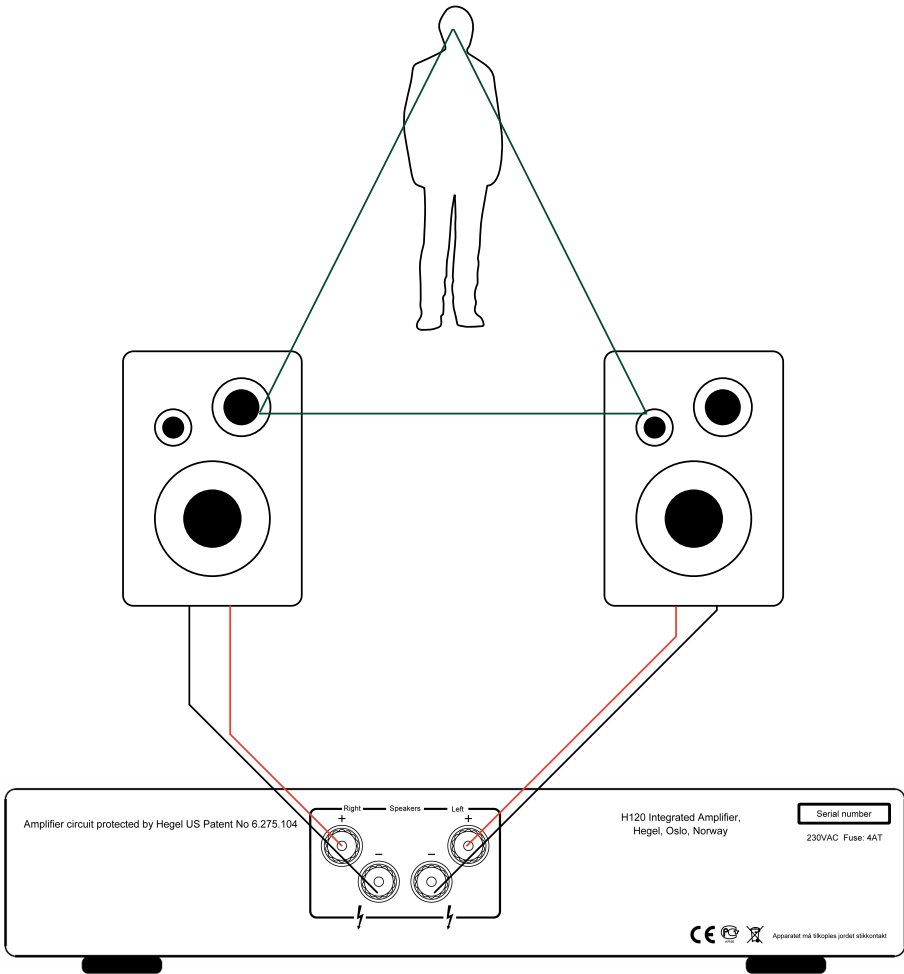


User Manual

# Quickstart

## 1. Connect your speakers

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

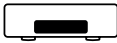
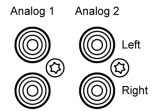


# Quickstart

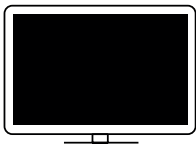
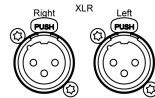
## 2. Connect a source



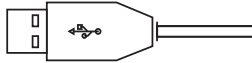
Unbalanced Analog



Balanced Analog

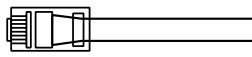


Coaxial Digital



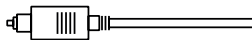
USB Computer

USB

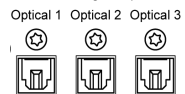


Network streaming

Network



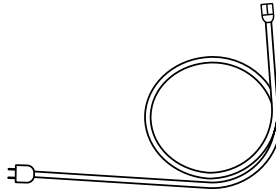
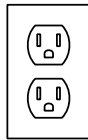
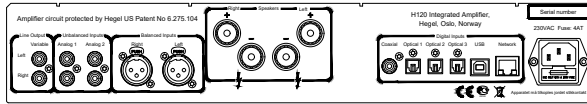
Optical Digital



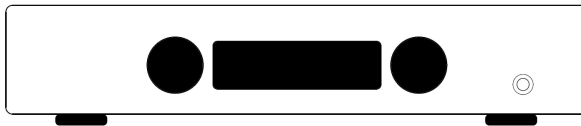


# Quickstart

## 3. Connect the power cord

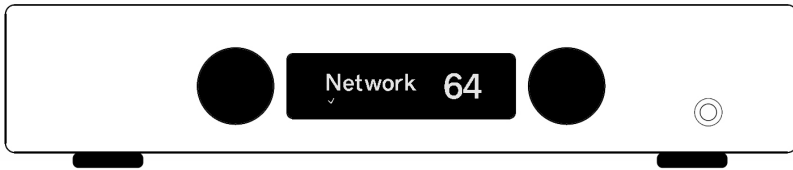


## 4. Turn on the amplifier



Power Switch

## General Use



### Operating the H120

The source and volume can be changed using the volume and input selector on the front panel or using the remote control. The volume level is indicated by a number between 0 and 99, with 0 being mute level and 99 being max volume. The H120 powers up at a default volume 20. This value can be changed, see Special Functions.

### Power Button

The H120 amplifier is switched on and off with the power button located on the underside of the amplifier, towards the front of the unit. When powered up, the H120 takes a few seconds to calibrate. During this time, the outputs are muted.

**NOTE:** When powering up, 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 H120 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 H120. This activates the headphone volume control and mutes the speaker outputs.

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

### Mute

Pressing the mute button on the Hegel remote control 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.

### Status Indicators

The Hegel H120 will display the network status in the lower left corner.

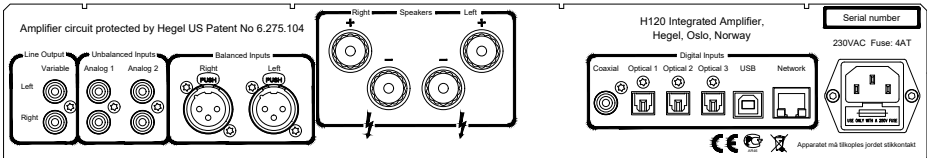
Network status is OK:



Network status is not OK:



# Connections



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

## Speakers

- Right outputs
- Left outputs

## Line Outputs

- 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
- An2(RCA): Standard analog input

If you want to connect H120 to a Home Theater, see page 17

## AC Power Connection

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

## Digital Connections

- Coax1: 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)

## Remote Control - RC8

The Hegel H120 can be controlled with the included Hegel RC8 Remote Control. The RC8 controls other Hegel products, such as amplifiers and preamplifiers, and most Media players on your Mac/PC, avoiding the need for multiple remote control devices.

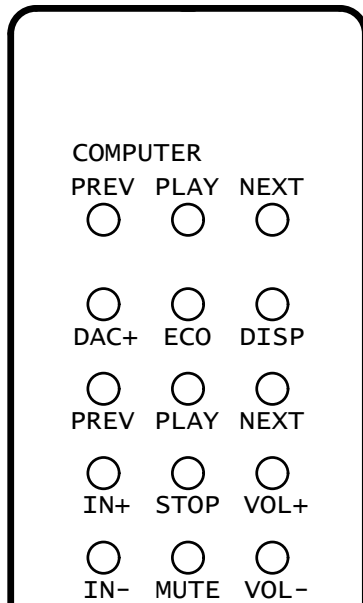
The remote control uses two standard 1.5-volt LR03 AAA batteries. To insert the batteries, use a crosshead (Phillips) screwdriver to gently remove the four screws on the underside of the remote control.

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.

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)

PREV	Skip to previous track on most computers/media players
PLAY	Play/Pause on most computers/media players
NEXT	Skip to next track on most computers/media players
DAC+	Input source selector button for Hegel DACs
ECO	This will put certain Hegel equipment in low power mode
DISP	Display on/off (hold for off)
PREV	Skip to previous track on Hegel CD-players
PLAY	Play/Pause for Hegel CD-players
NEXT	Skip to next track on Hegel CD-players
IN+	Switches up to next input on your Hegel amplifier
STOP	Stop/Eject for Hegel CD-players
VOL+	Volume up for Hegel amplifiers
IN-	Switches down to previous input on your Hegel amplifier
MUTE	Mute for Hegel amplifiers
VOL-	Volume down for Hegel amplifiers

## Network Configuration

The Hegel H120 has its own Network Configuration page to where you can change the name, the IP settings and update the firmware.

Find the name of the unit by pressing and holding "COMPUTER PLAY" (2) button. A menu appears and use "COMPUTER NEXT"(3) button to choose "Network". It will then display the name and IP address of your H120.

PC/Mac: Type in the IP in your browser and the Network Configuration page opens.

### **Playing Files on a Network Device**

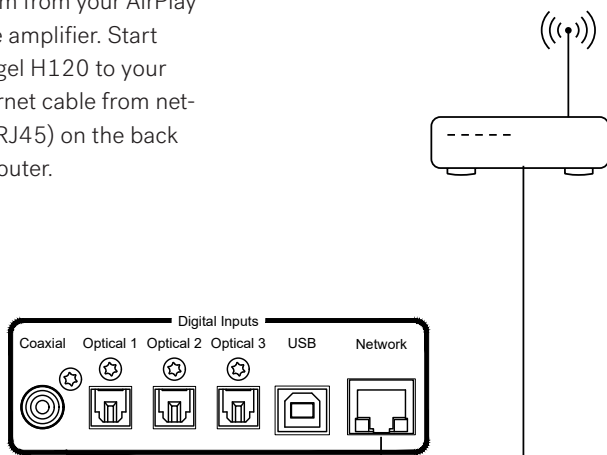
The Hegel H120 can function as a Digital Media Renderer. This means that it can receive and play media files from a UPnP/DLNA compatible media player.

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

For detailed information on the Network Configuration page, supported formats and much more please go to:  
[www.hegel.com/products/integrated/H120](http://www.hegel.com/products/integrated/H120)

## Using AirPlay

When using AirPlay on the Hegel H120, you can send the music stream from your AirPlay compatible device, to the amplifier. Start with connecting your Hegel H120 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 H120 is connected to your local network.

When connected, the unit will use DHCP, and will automatically receive an IP-address and then integrate in your home network. All AirPlay compatible devices will now detect the Hegel H120 in their list of AirPlay speakers, it will be displayed as "H120", 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 H120. For details on this please check the device manual. Then the AirPlay icon will be displayed and you can select the H120. You are now ready to send the music stream to your amplifier.

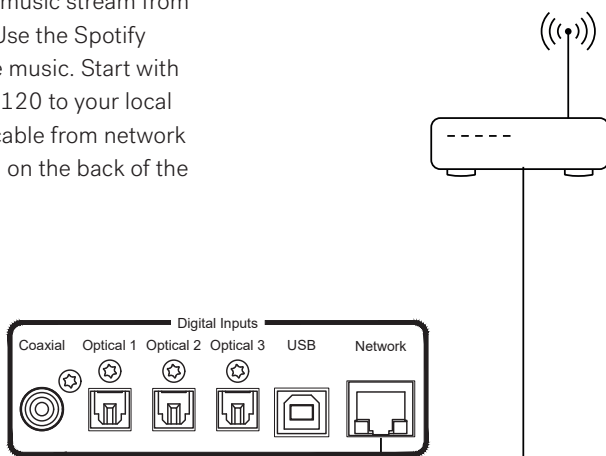
### Playing from iTunes on your Hegel H120.

Install iTunes on your Mac or Windows computer. Launch iTunes, press the AirPlay Logo, and select the H120. 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 H120 as the output, always remember to check the iTunes volume-setting before pressing play. The H120 will change its volume to the volume set in iTunes, when iTunes starts playing to the H120.](#)

## Using Spotify Connect

When using Spotify Connect on the Hegel H120, you can send the music stream from Spotify to the amplifier. Use the Spotify application to control the music. Start with connecting your Hegel H120 to your local network using Ethernet cable from network connection (LAN - RJ45) on the back of the amplifier, to your router.



## Listen out loud with Spotify Connect

1. Connect your Hegel H120 to your local network
2. Open up the Spotify app on your phone, tablet or laptop using the same local network
3. Play a song and select Devices Available.
4. Select your Hegel H120 and start listening.



# Software Update

Make sure your H120 is connected to a network with an internet connection.

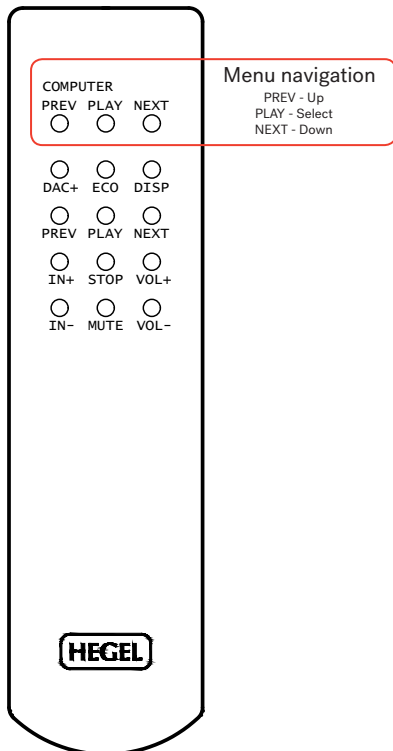
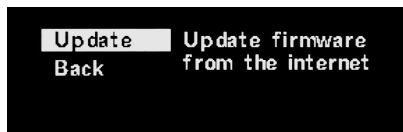
Hold Play on your remote control for around 5 seconds to enter the device menu.



Scroll down to the Update option by using Next and enter this menu by pressing Play.



Press Play again to check for firmware updates on the internet.





# Special Functions

## Display On/Off

The DISP button on the RC8 remote control may be used to turn the display of the H120 on or off. Hold the DISP button for more than 1 second to turn the display off. Press the button turn the display on.

## Home Theater or Standard Analog Input

All inputs can be changed into a Home Theater input. This will set the Volume at a fixed high volume level. Use the RC8 remote to change the settings. Hold computer play until the setup menu appears. Use computer prev/next to navigate to "HT" and press computer play to select this submenu. Now use computer next/prev to maneuver to the input you want to change into a fixed level input. Press computer Play to toggle between a fixed level input or normal variable input. Now don't press anything for 15sec, and the H120 will return to normal mode.

**WARNING: Activating Home Theater sets the volume at a high fixed level. This may harm your speakers if a fixed level input is connected.**

## Set Power Up Volume

A user defined volume value may be used as the power-up volume. 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 H120 will be reset to factory settings. This will clear all user defined settings, including IP settings, and reinitialize the H120.

## 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.

## Using the USB Connection:

When you connect H120 to a computer with a USB cable (not included), the H120 will automatically install itself as a USB soundcard on all newer versions of Windows and MAC OS X, and most newer versions of Linux.

When your computer is connected with the USB-cable you may use the supplied remote control to skip/play/pause in most media players.

The first time you connect your computer to H120: Connect the computer to the internet and close all media players, such as iTunes or Windows Media Player.

## Troubleshooting with MAC:

H120 connected but no sound out of the speakers: Go to System Preferences – Sound – Output and select "TE7022 Audio w/ SPDIF" as the Output Device.

## 24 bit Audio:

H120 can receive 24-bit music files through the USB interface. Sending 24-bit audio signals, from your computer, may require some set-up in your media player. Setup varies depending on the operating system and the media player. Consult the FAQ section of the media player for details.

CD-quality and lower resolution files: No additional set-up is needed.

## General Information

### Technical Specifications H120 Integrated Amplifier

Power output	2*75W 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 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 2000 (main power output stage)
Dimensions	8cm x 43cm x 31cm (HxWxD) 12kg shipment weight. 3.15" x 16.93" x 12.20" (HxWxD) 26.46lbs shipment weight.

### 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 bag around the amplifier. Make sure the bottom shock absorbers are placed at the bottom of the original cardboard box. Place the amplifier into the shock absorbers. Place the top shock absorber on top of the amplifier.

### Use and Placement

The Hegel H120 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. When it cools down the relays kick in and the amplifier sets the volume 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.

## 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 [www.hegel.com](http://www.hegel.com). If you experience any problems locating your dealer or distributor please contact [info@hegel.com](mailto:info@hegel.com)

For more information about the H120, please visit [www.hegel.com/products/integrated/H120](http://www.hegel.com/products/integrated/H120)



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 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.

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