

Steinway & Sons Head Unit Processor

INSTALLATION MANUAL

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Compliance

WEEE

The European Parliament and the Council of the European Union have issued the Waste Electrical and Electronic Equipment Directive. The purpose of the Directive is to prevent waste of electrical and electronic equipment and to promote reuse, recycling, and other forms of waste recovery. Steinway Lyngdorf products and the accessories packed with them are subject to the WEEE Directive. Please dispose of any waste materials in accordance with your local recycling regulations. Products and equipment which must be collected for reuse, recycling, and other forms of recovery are marked with the icon of the crossed-out waste receptacle.



FCC

Steinway Lyngdorf products and accessories comply with parts 15 and 68 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including any interference that may cause undesired operation. The Head Unit Processor contain TX FCC ID: TYOJN5139M0.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed.

S T E I N W A Y L Y N G D O R F

Pre-Installation

Please read all material carefully prior to installation. If you need additional assistance, contact your Steinway Lyngdorf representative.

Unpacking the unit

Unpacking the Head Unit Processor

The Head Unit Processor is packed in a wooden crate. A tool for removing the clips is in the pallet. Remove the clips from the top of the crate and remove the lid. Afterwards, remove the clips on the walls. You can now easily get access to the head unit and move it from the pallet.

Carefully check for shipping damage. If the unit bears any sign of transport damage you need to photograph the damage, and report the incident to your Steinway Lyngdorf representative immediately



Note: Keep the shipping carton and all packing material for future use. If this unit is shipped without the original packing, damage could occur and void the warranty.

Inventory

Check the list below to ensure that all necessary product components have been delivered. Report all discrepancies to your Steinway Lyngdorf representative immediately.

- Owner's manual
- Power cord
- Link cable
- IR / RF Remote

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Operating Voltage

Steinway Lyngdorf products must be connected to the mains power system. The Head Unit Processor will automatically detect the voltage between 110-230v.

Ventilation Requirements

The Head Unit Processor does not have a built-in fan, nor does it require special measures to ensure proper heat dissipation. However, it should be placed in an environment free of excessive heat.

Heat output

Maximum: 85W / 290 BTU/hr.

Cables and Plugs

Use only mains cables and power plugs approved by Steinway Lyngdorf. Using other types may cause damage to the system and will void the warranty.

Connecting

For cabling between the processor and amplifiers, please use RJ45 to RJ45 B standard cables. Use only cables and connectors approved by Steinway Lyngdorf. Poor quality cables may violate safety/ EMC regulations as well as cause noise and interference.

- For cable lengths less than 1 meter, use CAT5E/shielded CAT6 cable.
- For cable lengths in excess of 1 meter, use double-shielded CAT5E cables.
- All RJ45 connectors should be shielded.

Please refer to the wiring diagram supplied by Steinway Lyngdorf to determine which cables you need.

Home Automation System Integration

The Head Unit Processor is compatible with home automation systems via the RS232 and network connector on the rear socket panel. The Head Unit Processor's IR and trigger connections can also be programmed for use in a home automation system.

IP Control

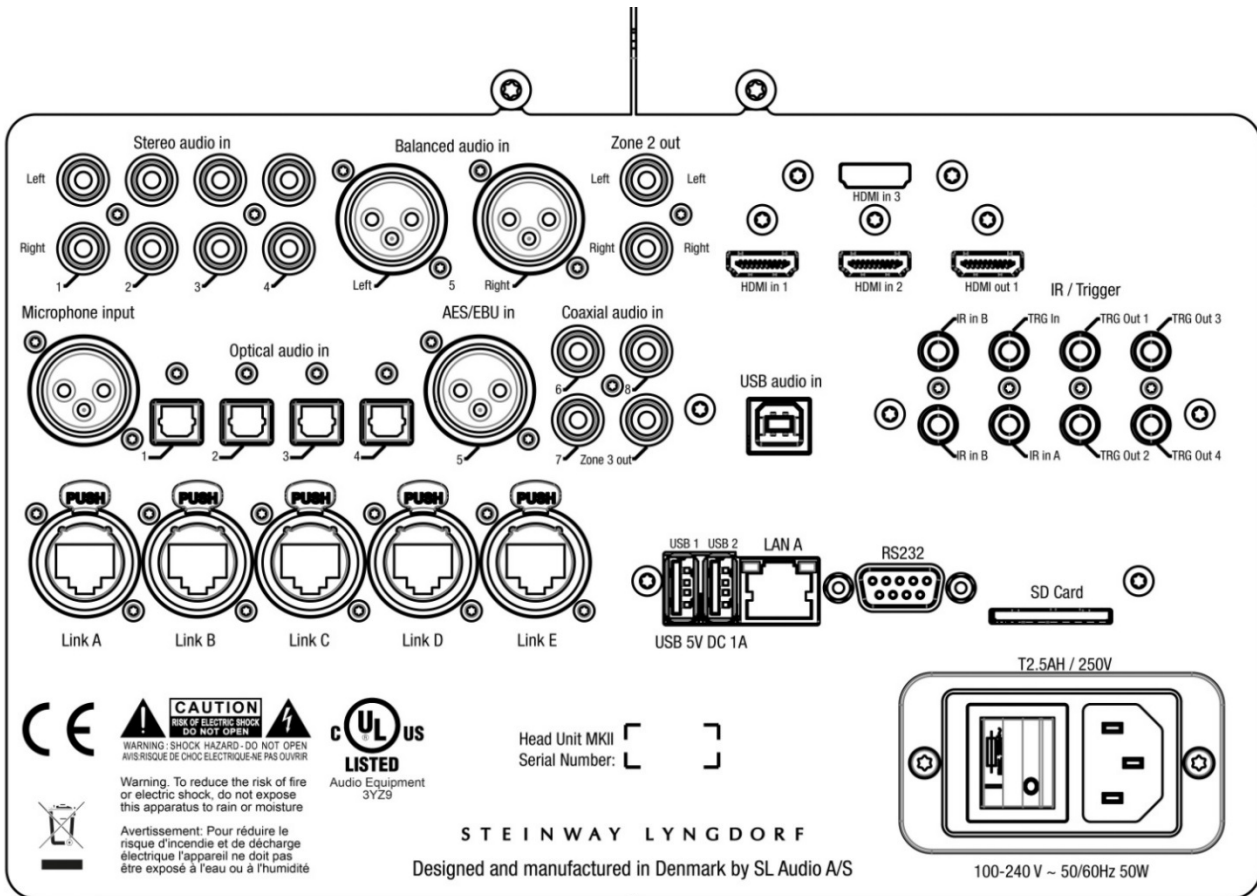
Open a TCP connection on port 84 and use the same protocol as on the serial interface (see Head Unit Processor Serial Control Manual). Use Telnet, Putty, or similar programs to open the TCP connection.

If you do not know the IP address of the Head Unit Processor on your local network, the Head Unit Processor supports Apple's Bonjour Discovery service, which must be on the computer you want to set up the Head Unit Processor with. The software is built-in as part of the Apple OS X operating system (not iOS devices). For Windows operating systems, the software can be found at <http://www.apple.com/support/bonjour/>

Pressing the OK button on the remote and toggling through Info will also display the current IP address of the unit.

Access the Head Unit Processor by going to <http://headunit.local> in your browser.

Rear Panel



On the back of the Head Unit Processor, you will find a range of inputs and outputs:

- Various optical, coaxial, and analog stereo audio inputs.
- 3 HDMI inputs and 1 HDMI outputs, all 4K compatible.
- 1 trigger input and 4 trigger outputs.
- 2 IR inputs (IR in A and B) and 1 IR connector output (IR in B - duplicated).
- 2 LAN connectors, for Ethernet connection on the local network. IP control is supported.
- 2 USB connectors, for music file playback, software updating, etc.
- 1 streaming USB input.
- 1 SD card slot for storing backup data.
- 1 microphone input for the RoomPerfect™ room correction microphone.
- 1 RS-232 connector for serial control of the unit.
- 5 Digital Link outputs for connecting Steinway Lyngdorf's amplifiers.

Note: Do not use the USB ports for charging smartphones and tablets.

In Standby mode, only LAN A is active; LAN B connector is not active.

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Remote

The Head Unit Processor comes with a dedicated RF and IR remote control for installations and everyday use.

Setup	Access the installation menu.
Standby	Turn the Head Unit Processor on and into standby.
Audio	Access the post-processing menu.
Up/Down	Move up and down in menus. Browse available settings in a menu. Toggles between the available RoomPerfect™ filters.
Left/Right	Move left and right in menus. Toggle between neutral and the available voicings.
OK	Activate the info screen, indicating the status of the unit. Select a menu and store a selected setting.
Back	Return to the previous menu.
Menu	Access the user menu.
SRC	Access the source menu list.
Source +/-	Toggle between active sources.
Volume +/-	Turn volume up and down.
Mute	Mute and restore the sound.
Play/Pause	Play/pause the currently playing track of the media player.
Skip Forward/ Backwards	Skip in the current playlist in the media player.



How to Pair Remote

The remote control is paired to the Head Unit Processor at the factory, and you only need to pair it again if you have a new Head Unit Processor or remote. To pair the RF remote control to a Head Unit Processor:

1. Turn on the Head Unit Processor.
2. Hold down Play & OK until the remote control's green LED flashes.
3. Point the remote control at the Head Unit Processor and hold it within 30cm / 1 foot of the front panel; when the green LED stops blinking, the remote is connected via Zigbee.
4. The remote will be paired to the Head Unit Processor.

To reset the pairing of the remote control, press Back and OK until the red LED flashes twice.

Switching Remote to RF and IR Mode

To switch the remote from RF to IR mode, hold down OK and 1. The LED will flash red twice.

To switch the remote from IR to RF mode, hold down OK and 2. The LED will flash green twice.

Setup Procedure

Set up the Head Unit Processor surround sound processor by following these steps:

1. Check that the mains voltage switch on the A1/A2 amplifiers is correctly set to either 115V or 230V.
2. ID-assign all Model A1/A2 amplifiers via dip-switches on the A1/A2 socket panel according to the project-specific wiring diagram.
3. Connect speakers to the Model A1/A2 amplifiers.
4. Connect Model A1/A2 amplifiers to the Head Unit Processor as shown in the project-specific wiring diagram.
5. Connect all external equipment, such as a Blu-ray player or home automation system, to the Head Unit Processor, including inputs, outputs, and mains.
6. Connect power to the Head Unit Processor, the amplifiers, and all connected audio and video sources.
7. Switch on the Head Unit Processor.
8. Access Installer menu via Web or the remote and OSD.
9. Go to Speaker and room -> Manage and add the Speaker Configuration file from a USB stick.
10. Verify speaker setup by going to Speaker and room, select your speaker configuration and press Right on the remote to select the setup. At the bottom of the screen, select and press Verify Speakers.
11. Check speaker phases (refer to speaker owner's manuals).
12. Run RoomPerfect™ Guided Setup.
13. Set up sources, zones, etc.
14. Save and back-up settings.

Installation Via OSD

If connected to a screen, we recommend setting up the Head Unit Processor via the OSD setup guide. Access the menu system by pressing the Setup button on the remote control.

Note: There are some differences between the options available via the web interface and OSD. This is a description of how to set up via the web interface.

Installation Via Web Interface

You will need a computer, and the Head Unit Processor must be connected to an existing network, or you may use a crossover network cable for direct connection.

If you do not know the IP address of the Head Unit Processor on your local network, the Head Unit Processor supports Apple's Bonjour Discovery service, which must be on the computer you want to set up the Head Unit Processor with. The software is built-in as part of the Apple OS X operating system (not iOS devices). For Windows operating systems, the software can be found at <http://www.apple.com/support/bonjour/>

- Access the web menu by typing <http://headunit.local/> in your browser.

Alternatively, you can connect a screen to the Head Unit Processor using any of the video output sockets on the back. Access the menu system by pressing the Setup button on the remote control.

Pressing the OK button on the remote and toggling through Info will display the IP address of the unit.

Source

In the Source menu, you can register the individual sources connected to the Head Unit Processor by the audio and/or video input sockets they use.

Create

Source name / Input the name for the source.

Lip-sync offset / Set delay time in milliseconds to ensure that the video and audio signals are played back simultaneously.

Volume offset / Enables you to match input levels from different sources.

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Audio input / Select the audio input.

Default post processing / Select the default audio mode.

Default voicing / Select the default voicing.

Video input / Select the video input.

Preset vTuner station / Select and preset a vTuner internet radio station.

Speaker configuration / Select which speaker configuration to use.

Trigger out / Choose which trigger output to activate when using this source.

Audio input / Select the audio input.

This procedure must be followed for all connected sources.

Edit / Edit all enabled sources.

Arrange / Arrange the order of sources by making a prioritized list.

Delete / Delete enabled sources.

Remember to press accept after making selections.

Speaker and Room

The Speaker and Room menu provides information about the current speaker configuration, allowing you to select a configuration that is stored on the Head Unit Processor, on a laptop, or on a connected memory stick.

Speaker Configuration

Manage

Add or delete speaker config files.

To add a file, insert a USB stick with the speaker configuration file you have received from your Steinway Lyngdorf representative, select the file and press Add. The speaker configuration will be added to the Speaker

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Configuration list. After adding the speaker configuration, it will be visible as a menu below Speaker Configuration. Press Left on the remote to select it.

Verify speakers

Press the Verify Speakers button to verify your setup.

RoomPerfect™

Focus position

The focus filter improves the sound quality at a specific listening position. This makes the focus filter the best solution for optimal sound quality at a single listening position.

It is possible to add multiple focus positions. This must be done after RoomPerfect™ has been set up completely.

Edit distance

Be sure to select the unit of measure, then enter the distances to the speakers and woofers.

How to measure distances to speakers and woofers

The best results are obtained by using a laser-equipped measuring device. Before starting, place the RoomPerfect™ microphone at listening height in the main listening position. For each channel, measure the straight-line distance through the air from the tip of the RoomPerfect™ microphone to the center of the tweeter unit in the loudspeaker in question. Do not measure distances at floor level, as these measurements will not give acoustically accurate results.

When measuring distances to **in-room** boundary woofers:

- If the stack of woofers is taller than the listening position, measure the distance from the listening position to the back edge of the middle of the stack of woofers.
- If the woofers are lower than the listening position, measure the distance from the listening position to the back edge of the top woofer.

When measuring distances to **in-wall** boundary woofers:

- If the stack of woofers is taller than the listening position, measure the distance from the listening position to the dust cap of the middle of the stack of woofers.
- If the woofers are lower than the listening position, measure the distance from the listening position to the top dust cap of the top woofer.

If in doubt, contact your Steinway Lyngdorf representative for guidance.

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Do not measure distances at floor level, as these measurements will not give acoustically accurate results.

How to Set Up RoomPerfect™

The RoomPerfect™ microphone is a very sensitive and finely calibrated device which must be treated with utmost care. If the microphone has been dropped on the floor, it may be damaged. If this is the case, obtain a new microphone from your Steinway Lyngdorf representative before performing the system calibration.

Volume Setting

The system guides you through the selection of a proper calibration volume level. Follow the instructions on the display to find the optimal volume setting for doing the calibration.

You can choose to use a volume setting other than the one requested by the system by choosing Use Current. The calibration will not be inferior in quality, but the time required for an exact measurement will be longer. If the volume setting is too high, the system will display Error – Clipping. Reduce the volume and try again.

RoomPerfect™ Preparations

- Place the RoomPerfect™ calibration microphone on the stand. Be sure to fasten the screws properly so the microphone does not move during a measurement.
- Plug the supplied microphone cable into the microphone.
- Connect the microphone cable to the microphone terminal on the rear panel of your processor.

Placing the Microphone in the Focus Position

When you are prompted to place the microphone in the focus position, connect the microphone to the microphone input on the back panel and place the microphone, using the microphone stand, in your primary listening position. The height and the orientation of the microphone should correspond to your head's height and direction.

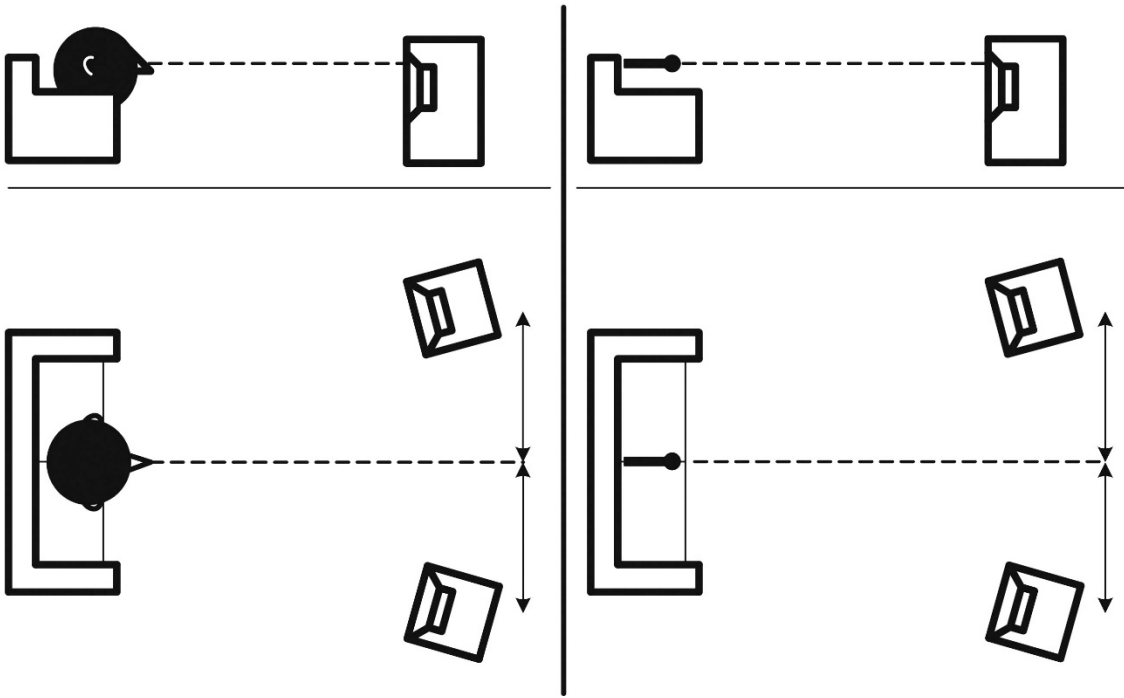
Press Enter and a test signal will start from the left speaker. The system will give an estimated optimal volume for calibrating the system or will accept the current volume. Adjust the volume if required and retry the measurement.

The calibration volume should not be so loud that it is inconvenient to you, or that it causes damage to your loudspeakers. If this is the case, set it to a lower and more appropriate level. A low volume can result in a

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longer calibration time or a measurement time-out. A low volume and long measurement will not affect the quality of the end result.

The display reads 0 to 99.9 as volume level, where 88 refers to full gain (0 dB)



Measuring the Focus Position

When the calibration volume has been set, RoomPerfect™ will send a range of tones to measure the focus position.

If there is noise in the room, the measurement may take longer. This will not affect the quality of the end result.

See RoomPerfect™ troubleshooting if the measurement stops prematurely, and then retry the measurement.

Measuring Random Room Positions

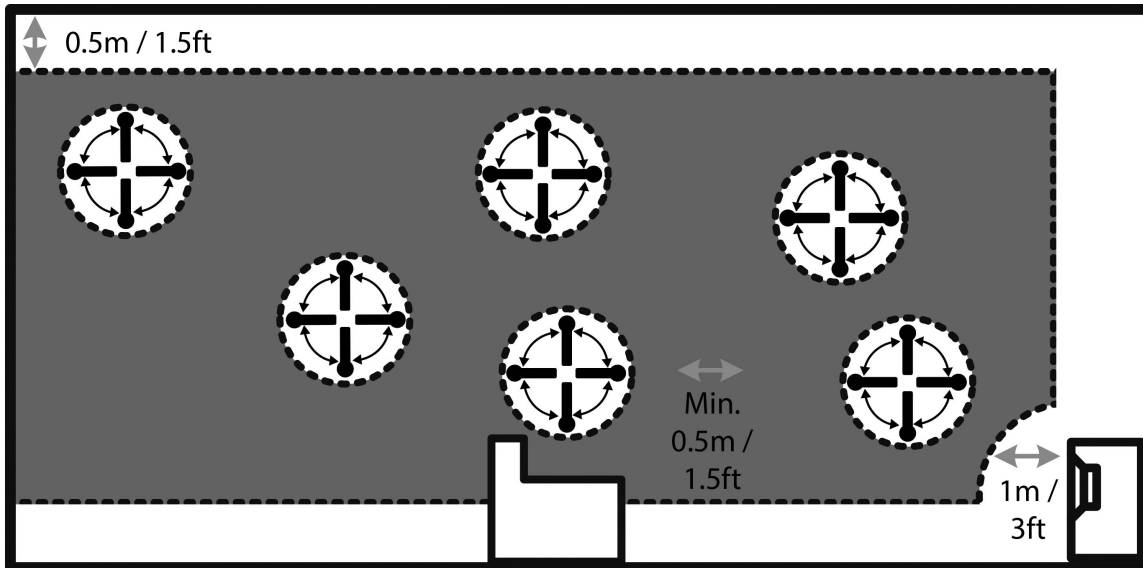
When the focus position has been measured, the next step is to measure the acoustical properties of the room. It is important to perform well spaced measurements to get a comprehensive image of the acoustical properties of the room. See RoomPerfect™ troubleshooting if the measurement stops prematurely.

Keep taking measurements until RoomKnowledge reaches 90%.

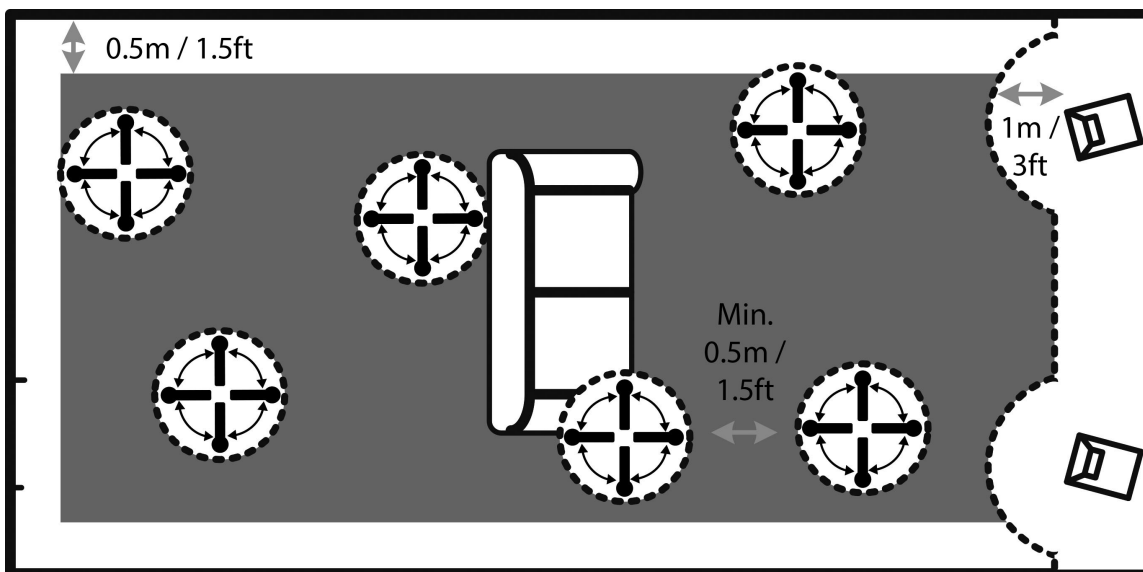
These are the rules of thumb when measuring the room:

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- the microphone should be in random and varying positions, heights, and orientations. Point it up/down/sideways, the more random positions the better.
- the measurements should cover the entire room, not only your listening area.
- do not take measurements behind plants, furniture, etc.



- the microphone should not be closer than 0.5m/1.5ft from the floor, ceiling, and walls.
- the microphone should be at least 1m/3ft from the front of the loudspeakers.
- there should be at least 50cm/1.5ft between each measurement.
- do not take symmetrical measurements in the room.

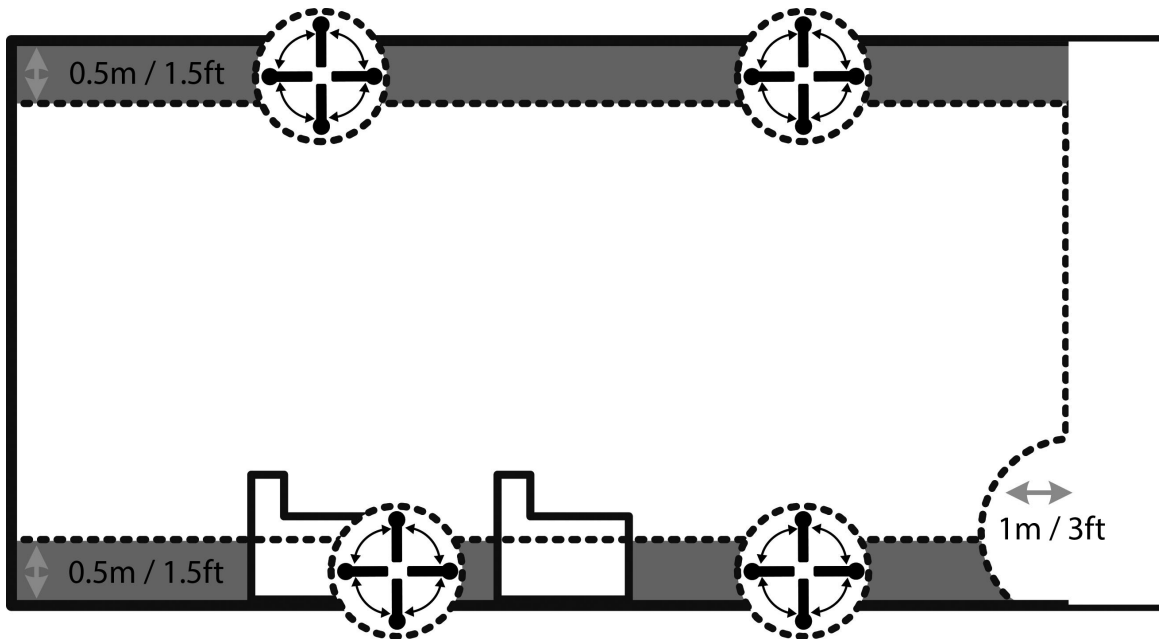


Room Measurements Above 90% RoomKnowledge

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When RoomKnowledge has reached 90%, you can decide to add room measurements or do it at a later time. We recommend taking a couple of measurements within 50cm/.5ft of the walls and ceiling when above 90% RoomKnowledge.

To fully optimize RoomPerfect™'s understanding of the room's acoustical properties, we recommend you keep doing measurements until the RoomKnowledge is above **95%**. The higher the RoomKnowledge, the more accurate the room correction filters will be.



Calculation of Focus and Global Filters

When room measurements are complete, the system will calculate the focus and global filters automatically.

Audio Setup

Audio Processing

This menu allows you to manage the audio processing presets for DTS, NeoX, AURO, and Dolby.

Voicing Setup

A voicing is an equalizer filter that can be activated to amplify or attenuate certain frequencies according to your personal preferences. This equalization is an addition to the RoomPerfect™ corrections.

Voicings can be edited, deleted, added or loaded in the Head Unit Processor.

Editing and adding voicings

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In the intuitive GUI for the voicing tool, you can edit or add a voicing by combining up to eight filter sections. For each section, you can choose between parametric or high and low shelves as well as high and low-pass filters. Once the filter type is selected, you can insert a center frequency, Q, and gain. Then the filter, including the final voicing, is shown as a graph so that you can immediately see the result.

We recommend you create voicings using the web interface, but they can be created using the remote control.

Zone B

Setup

Here you can adjust the Zone B volume and default settings.

The Zone B output is a stereo downmix of the main zone audio – intended for use as an input in adjacent space.

System Configuration

General Setup

Power management

- Choose the standby mode:
 - Deep sleep – The Head Unit Processor cannot be turned on via LAN or a IP control system. RS232 based control systems will work.
 - Network - The Head Unit Processor can also be turned on via LAN or a IP based control system.
- Choose the delay before auto off (minutes). If you don't press any buttons or audio isn't being played, this sets the idle time required for automatic shut-down.

NOTE: The Head Unit Processor cannot turn on from standby via LAN B; use LAN A instead

Default volume settings

- Set a max volume for the device (dB). This setting is a safety precaution.
- Set startup volume

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- Use last volume – Sets the volume to be the same as when the Head Unit Processor was turned off.
- Use fixed volume – Sets the default volume at startup.

HDMI CEC settings

Set enable CEC and use ARC channel as audio input to Off or On.

Display timeout

Set seconds before turning off the display.

Password protection

Set a required password to enter the web setup section.

Control of speaker setups

Set to allow sources to change speaker setup to No or Yes.

Show bypass

Set the bypass mode for your device to Off or On.

Enable front IR sensor

Turn the Head Unit Processor's IR sensor Off or On. This function is useful if you are using a home automation system and other remotes are using the same IR codes as the Head Unit Processor remote.

OSD info level

Choose the level of information to show on the OSD.

Trigger In Setup

Allows you to set up the system so that it can be switched on via an external device in the system.

Trigger Out Setup

Allows you to set up the system so that the Head Unit Processor can control other devices in the system.

Network Configuration

Change the network mode to manual or automatic.

For more info, see the Network Setup chapter.

Streaming Setup

Configure streaming player setup.

- Streaming players can control volume – set to Off or On
- Streaming players can change input source – set to Off or On
- Streaming players can power on the device from standby mode – set to Off or On

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Manage Software

From this main menu you can access Head Unit Processor software information, backup, restore, etc.

Software Information

Show reference information about the current software in the Head Unit Processor.

Network Information

Show reference information about the network status of the Head Unit Processor.

Backup

Make a complete system backup, including speaker setup and RoomPerfect™ measurements.

When the backup is complete, the Head Unit Processor will go into standby mode.

Restore

Restore the system.

Factory Reset

Restore the system to the default factory settings.

Note: All user preference settings, system data, and RoomPerfect™ data are lost when the Head Unit Processor is restored to the default settings.

Software Update

Please don't unzip or change the name of the file. Simply save it and upload it to the Head Unit Processor. If you are using a Mac, please right-click and "save as," rather than downloading the file, to avoid automatic unzipping.

Update from Local Files

Via web interface:

1. Click Browse to find a file stored on your computer.
2. Press Upload to upload it to the Head Unit Processor.
3. Click Process to initialize the update.

Or:

1. Upload the update to a SD-card or a FAT 32 formatted pen drive.

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2. Insert the SD-card / pen drive into the Head Unit Processor
3. Select the file in the menu and click Process.

Update Via OSD Interface

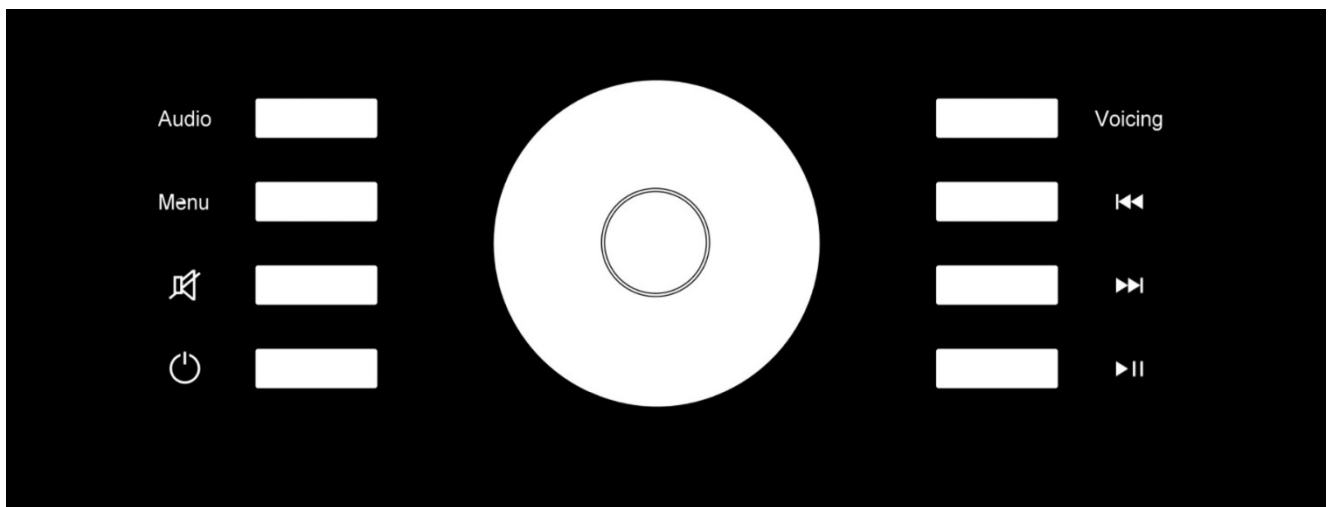
1. Upload the update to a SD-card or a FAT 32 formatted pen drive.
2. Insert the SD-card/pen drive into the Head Unit Processor
3. Select the file in the menu and click OK on the remote control.

Note: System settings and RoomPerfect™ data remain intact during software updates.

Update from Remote Files

When connected to the internet, the Head Unit Processor can automatically download and update the software.

Daily Operation



Audio Change Audio Modes

Menu Enables you to operate the menu system.
Use the search wheel and select button to make your choice.

Mute Turns the sound on and off.

Stand-By Turn the system from operating mode to standby and vice versa

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Voicing Skip between the active Voicings

Skip Backward Press to skip backward through tracks playing on the streaming player.

Skip Forward Press to skip forward through tracks playing on the streaming player.

Play/Pause Activate playback or set the playback on pause.

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Maintenance

Steinway Lyngdorf systems high gloss lacquer finish is the same as that used on the finest Steinway pianos. To keep your Steinway Lyngdorf system looking superb it must be treated with care.

Do not use ordinary furniture polish or cleaning agents as these usually contain wax or silicone that may cause damage to the system's surface.

To keep that famous Steinway high gloss lacquer looking great we strongly recommend that you use only the included micro-fiber polishing cloth, dry or slightly dampened with de-mineralized water.

Troubleshooting

RoomPerfect™

The calibration microphone is very sensitive and may pick up unwanted noise, including subsonic signals and background noise, which disturbs the measurements. If the signal is disturbed, it will take longer for the system to make a correct measurement.

A measurement that has been disturbed by noise but completed will always be correct; it is not necessary to redo it. If the measurement has stopped due to an error, one of the error messages below will be shown.

Error Messages

No microphone connected

No microphone is connected, or the microphone cable is not working. Check that the microphone cable is connected to the microphone socket on the back panel. If the problem continues, test the microphone cable by connecting the microphone directly to the microphone socket and select Retry.

If the microphone is detected, replace the microphone cable and retry the measurement.

Fault – No signal

This error message can arise due to a signal classification of no sound. This happens if the sound volume has been muted or a cable is disconnected.

- Check the sound volume.
- Check all cable connections.
- Check the measuring signal volume.

If none of these measures solve the error, request a replacement microphone from Steinway Lyngdorf.

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Fault – Signal clipping

Either the incoming signal has been classified as too loud, resulting in clipping or distortion, or a loud noise in the immediate environment has corrupted the measurement results. If a loud noise has in fact occurred, such as the sound of a closing door, reduce noise levels inside and in the immediate vicinity of the room and repeat the measurement. If no loud noise has occurred, reduce the volume of the signal and repeat the measurement.

Fault – Low signal

This error message is displayed when the measurement has lasted more than 5 minutes for the low-frequency signal or more than 2 minutes for the high-frequency signal. This happens most often when using a low-level measuring signal compared to the background noise in the listening environment, which results in prolonged measuring times. Raise the measuring signal volume or reduce the noise in the environment before continuing with the measurement.

Can't Turn On Via LAN or Control System

- The Head Unit Processor needs to be set to Network mode to be able to turn on via a control system. It will not turn on when in Deep Sleep. This is set up in Device Management -> Power.
- The Head Unit Processor cannot turn on from standby via LAN B; please use LAN A instead.

Retrieving and Sending an Error Log

To retrieve an error log, you need to access the Head Unit Processor via your browser. Here you can download a text file and email it to your Steinway Lyngdorf representative.

3D Compatibility Not Detected

If the Head Unit Processor isn't fully booted, a Blu-ray player will not be able to detect its 3D compatibility.

Remote Control Doesn't Work

The remote control is paired to the Head Unit Processor at the factory; you only need to pair it again if you have a new Head Unit Processor or remote. To pair the RF remote control to a Head Unit Processor:

1. Turn on the Head Unit Processor.
2. Hold down Play & OK until the remote control's green LED flashes.
3. Point the remote control at the Head Unit Processor and hold it within 30cm / 1 foot of the front panel; when the green LED stops blinking, the remote is connected via Zigbee.
4. The remote will be paired to the Head Unit Processor.

To switch the remote from RF to IR mode, hold down OK and 1. The LED will flash red twice.

To switch the remote back to RF mode, hold down OK and 2. The LED will flash green twice.

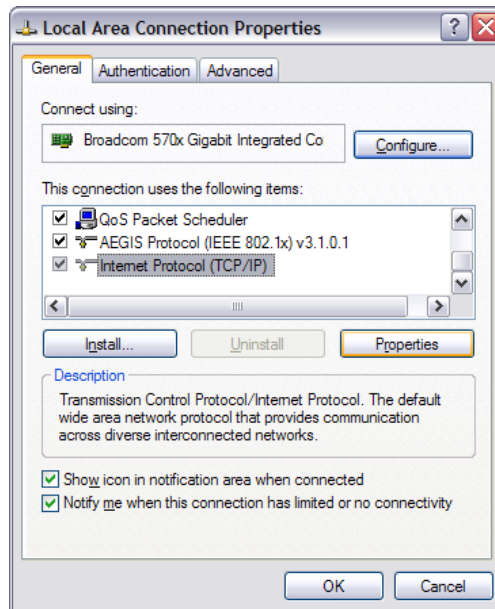
To reset the pairing of the remote control, press Back and OK until the red LED flashes twice.

Network Setup

Connecting to Head Unit Processor with a Network Cable

It is possible to get access to the Head Unit Processor's web interface via a direct cable connection between the Head Unit Processor and a computer, or a connection via a hub or switch.

If you have a direct cable connection to a laptop (with no switch or router between the two) the network cable must be a crossover type. Furthermore, the Mode option in the Network Setup menu must be set to Manual IP. Finally, you must manually set an IP address on the computer you intend to use for setting up the Head Unit Processor.

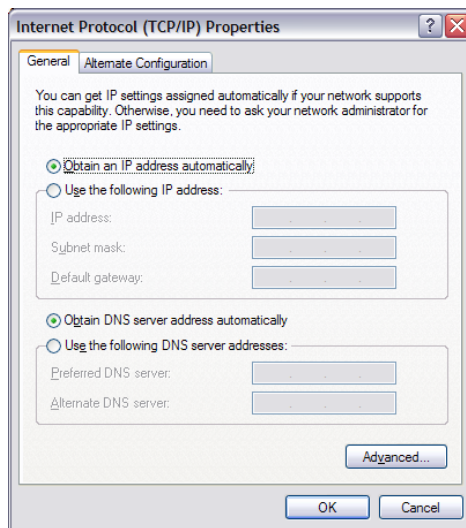


Set Up a Fixed IP Address in Windows XP or Windows 7

Click Start / Control Panel / Network Connections to find the network connection that represents your connection to the Internet. Most often, this is labeled simply Local Area Connection. Right-click the connection and select Properties. Click Internet Protocol (TCP/IP) in the list (you may have to scroll down the list to find it) Click Properties. Most default configurations will have both Obtain an IP address and Obtain DNS server address automatically selected by default. Click Use the following IP address and enter the following:

IP address: 192.168.1.2
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.1.1

Click OK to close the configuration windows, and you should now be able to access the Head Unit Processor via your Internet browser.



Set Up a Fixed IP Address in Windows Vista or Windows 10

In Windows Vista, click Start / Control Panel / Select Network and Internet / Network and Sharing Center. In Windows 10, right-click Start, then select Control Panel. Select Network and Internet / Network and Sharing Center.

Click Manage network connections in the list of tasks.

Right-click your local area connection and click Properties.

Select Internet Protocol (TCP/IP) from the list

Click the Properties button.

Click Use the Following IP address and enter the following:

IP address: 192.168.1.2
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.1.1

Click OK to close the configuration windows, and you should now be able to access the Head Unit Processor via your Internet browser.

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