

Hauptwerk VI • Audio-Mixer Sample for a Mixer Preset

There are 8 Presets available (HW VI)



1st Department: Configure your audio interface (Audio Device)

Audio device ...

Audio Device and Channels

Essential settings

Select the audio output device you want Hauptwerk to use. Make sure that no other software uses the selected device while you're using Hauptwerk.

A pro/semi-pro audio interface is usually best for performance/quality:

1 Audio output device: MOTU UltraLite mk3 Hybrid

Sample rate (for audio engine and audio output): 48 kHz (maximum polyphony)

Advanced settings

Audio buffer size (sample frames): 0256

Number of audio buffers: 1 (least sound delay, least resilience to glitches/crackle)

Total buffer size (sound delay, sample frames): 256 (5.8ms @44.1 kHz, 5.3ms @48 kHz, 2.7ms @96 kHz)

Output channels (for optional remapping/naming)

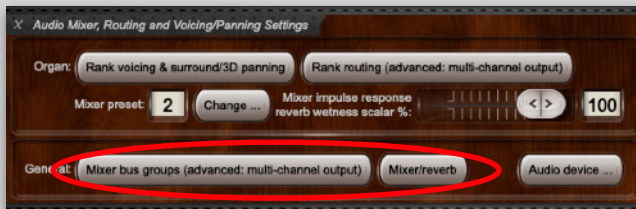
	Device channel		Name for channel (optional)
001:	0001 (Main Out: Genelec L)		Stereo-L
002:	0002 (Main Out: Genelec R)		Stereo-R
003:	0003 (Analog: Vorne L)		Vorne-L
004:	0004 (Analog: Vorne R)		Vorne-R
005:	0005 (Analog: Mitte L)		Mitte-L
006:	0006 (Analog: Mitte R)		Mitte-R
007:	0007 (Analog: Hinten L)		Hinten-L
008:	0008 (Analog: Hinten R)		Hinten-R
009:	0009 (Analog: Subwoofer)		Subwoofer
010:	0010 (Analog: Analog 8)		
011:	0011 (S/PDIF: S/PDIF 1)		
012:	0012 (S/PDIF: S/PDIF 2)		
013:	0013 (Phones: Phones 1)		Kopfhörer-L
014:	0014 (Phones: Phones 2)		Kopfhörer-R

Normally the individual channels of the interface are already named in the system settings (interface driver). Here we go one step further internally of Hauptwerk and name the individual outputs according to our speaker setup.

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2nd Department: General Audio Routing

Chose one of the 8 available Mixer Presets



Mixer/reverb

still

Mixer/reverb

Mixer bus groups (advanced: multi-channel output)

2 Master Mix Busses 1-8

Name and assign here the Master Mix Busses with the physical outputs of your multichannel audio interface, for example a *MOTU Ultralite MK3* (my case):

Master Mix Bus 1: „Stereo-Recording“

Master Mix Bus 2: „Headphones“

Master Mix Bus 3: „Subwoofer“

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Master Mix Bus 8

Examples show the use of the Master Mix Busses to collect multiple Rank signals for stereo recording, one headphone output or simply to integrate an additional subwoofer channel.

3 Primary Busses (1-1024)

Scroll down to reach the Advanced Items!

Name and assign here the Primary Busses with the physical outputs of your multichannel audio interface:

1 - Front (Stereo 1)

2 - Side (Stereo 2)

3 - Rear (Stereo 3)

- Adjust Levels
- Add reverb*
- Route to Subwoofer
- Route to Master Mix Busses (recording s.o.)

As there are 1024 *Primary busses* available you could initiate here several busses for one organ as well as prepared busses for several organs with different levels and reverbs.

Routings of the ranks of each organ are to be set in the specific organ settings.

** Of course, it is advisable to only select and adjust the IR reverbs at the end, when all ranks are properly connected and playable.*

4 Bus Groups (1-1024)

Name and define here the groups in which you want to send the organ stops/pipes to the Primary busses, which represent the physical outputs of your multichannel interface to the speakers, for example:

1 - Great, Swell: Stereo Front

2 - Pedal, Positif: Stereo Side

3 - Rear samples: Stereo Rear

Attention:

The rank routing in the respective organ is then set via these Bus groups (organ ranks routing)!

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3rd Department: Organ Ranks Routing

Rank routing (advanced: multi-channel output)

Mixer bus groups (advanced: multi-channel output)

5 Ranks (Examples)

This is where the final decision is made as to which registers should go to which speaker. We have previously set the bus groups accordingly in the general setting (2nd department). Choose the matching destination mixer bus groups:

Great/Swell
or „Direct Signal“

Positif/Strings
or „Diffuse Signal“

Chamades
or „Rear Signal“

Bus Groups (1-1024)

1 - Great, Swell: Stereo Front

2 - Positif: Stereo Side

3 - Rear samples: Stereo Rear

It is possible as well to assign the rank routing in the „Rank voicing & surround/3D panning“ but that option is much more confusing than setting it up here.

Furthermore: keep in mind to leave the rank outputs for the other „perspectives“ empty, unless you deliberately want to send a stop/rank across multiple speakers.

If you want to create a pseudo-surround with reverb on the rear speakers from a pure stereo organ, you should select the corresponding primary bus for the further perspective, as the signal can then be 100% reverberated there.

Noises: Stop Action on
PED- 1 Subbas
SWL- 21 Stopped Diapason
SWL- 22 Vox Angelica
SWL- 23 SW Viola 8
SWL- 24 Flute Ouverte 4
SWL- 33 Viola2

Rank routing properties

Rank output perspective 1 (front 1/main)

Destination mixer bus group: 0002 'Stereo Seite' <number of buses: 1>

Bus allocation algorithm: Static: cyclic within octave,octaves cycled,ranks cycled

Allocation algorithm note offset: 0

Rank output perspective 2 (front 2/upper)

Destination mixer bus group: 0003 'Stereo hinten' <number of buses: 1>

Bus allocation algorithm: Static: cyclic within octave,octaves cycled,ranks cycled