



## Neumann MA 1 – Automatic Monitor Alignment

### Version History – Version 1.4.0



#### Software Update V1.4.0

- Create and switch between multiple alignments and systems
- Modify existing alignments without repeated measurement
- UX update: Alignment wizard extended by tab-based structure
- Introduction of Monitor Control Screen
- Monitor control feature Bass Management Bypass
- Increased measurement robustness via automatic quality checks
- Various improvements in usability and robustness
- Extended user manual

## Previous Releases

### Software Update V1.3.0

- Added Save and Recall hardware setups for faster repeated measurements
- Added system level control independent of alignment process
- Added brightness control of the front logo LED of KH 80 DSP
- Added support of KH 750 AES67 subwoofer
- Improved network sharing of loudspeaker control and AES67
- Extended user manual
- Improved user interface for target curve modification
- Improved user interface for setting output and input levels
- Wait time option of up to 10 seconds for each measurement run
- Improved robustness of SNR measurement
- Improved network error handling
- Fixed repeat last measurement on final measurement position
- Improved font readability under macOS light theme

### Software Update V1.2.0

#### Improvements:

- Possibility to align 2 subwoofers in one system
- Possibility to adjust system gain at the end of the measuring process
- Improved loudness comparability between default and aligned system
- Optimized output level during measurement
- Each single measurement can be repeated if necessary
- Audio and network settings from previous measurements are taken over
- Improved visualization of signal-to-noise ratio
- Support of virtual audio interfaces (Windows)
- Quality of equalizers can be adjusted by using the mouse wheel
- Simplified installation process (Windows)
- Extended instruction manual

#### Bug Fixes:

- Spelling mistakes
- Occasional parameter reset missing on KH 80s
- EQ parameters not taken over when selecting a different parameter (MAC)

## Software Update V1.1.1

### Improvements

- Improved muting indication
- Target curve can be more easily manipulated by clicking on the dots directly
- More information about speakers is shown during selection
- Improved algorithm for bass alignment
- More streamlined and easier to understand user interface on several screens
- Activity indicators now show percentages on most screens
- Updated and expanded documentation
- Better support for low screen resolutions
- Improved compatibility with a broader range of audio interfaces
- Visual improvements
- User is warned when the backplate settings are set to local mode
- macOS: Software starts in full screen mode
- macOS: Doesn't show Firmware Update Screen anymore if all devices are up to date already
- Previously used configuration settings are repopulated on each restart

### Bugfixes

- Occasional "Sweep Generation failed" error
- Possible errors when navigating a lot backwards and forwards
- Identifying occasionally deselected loudspeakers
- Windows: Possible graphical glitches and scaling issues

### Software Update V1.1.0

#### Improvements

- Improved target curve generation
- Installation of firmware updates for KH 80 and KH 750 if necessary
- Updated and expanded documentation
- User interface improvements
- Instructions about optimized backplate settings
- Instructions regarding network troubleshooting
- Improved and expanded text descriptions
- Improved user experience when entering serial number and microphone compensation code
- Notification when no microphone signal can be detected
- Notification when levels of the left and right loudspeaker are too different
- Entering of EQ values is now easier, changes are applied when pressing "Return" or focusing another control
- Improved error handling with more detailed user information
- Windows: Additional information about ASIO drivers

#### Bugfixes

- On devices with significant system load the muting of loudspeakers could occasionally get out of sync with the playing sweep
- Occasionally when checking the signal to noise ratio the software did not show the required level increase
- macOS: Only the first input channel on audio interfaces with multiple input channels did record properly

### Software Update V 1.0.0

Initial software release version