

PENTEEO Award Winning Upmix/ Downmix Audio Plugins

v4.1.2 Release Notes

January 2021

Enhancements

- **Upper Fader at -100%:** Reducing the upper fader to -100% now completely eliminates all upper signal generation via Penteo. Sound energy is rebalanced so this maintains a perfect 100% ITU downmix capability.

Fixes

- **Pace Crash** - Pace was causing a crash on M1/Arm64 native hosts running Monterey and Big Sur. Pace has delivered their fix and we have deployed it in this release.
- **LFE** was not being synthesized properly when downmixing to Stereo or Ambisonics formats. This has been resolved.
- **Logic channel ordering bug** has been sourced to either JUCE or Apple and remains open. Until they provide a fix, we have fixed and match Logic ordering for Quad, 5.1, 6.1, 7.1, 7.1.2, and 7.1.4 formats. See notes in v4.1.1 below.

v4.1.1 Release Notes

January 2021

Fixes

- Master control meters now accurately displaying output on VST/AU Hosts (Logic, Nuendo, Reaper, etc). Penteo meters were outputting properly.
- Pace was causing a crash on M1/Arm64 native hosts running Monterey, this has now been resolved. Pace says there is still an issue with M1 machines running Big Sur and the next beta will address this. Penteo will apply this patch when received.
- Logic channel ordering bug has been sourced to either JUCE or Apple. Until they provide a fix, we have fixed and match Logic ordering for Quad, 5.1, 6.1, 7.1, 7.1.2, and 7.1.4 formats.
- Note 1 for Logic: 5.1.2, and 5.1.4 tracks are not supported in Logic.
- Note 2 for Logic: Select new 5th output ordering option for Logic AU. Below shows Logic for 7.1.2 showing the equivalent Penteo channels matched to Logic's.



V4.1.0 Release Notes

December 2021

NOTE: Change in Installation Menu Name

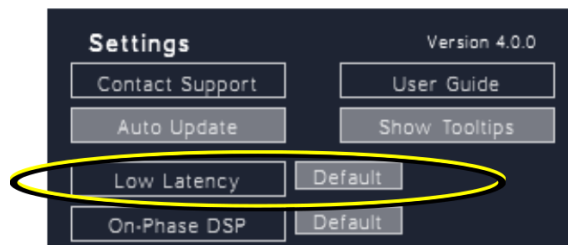
- **Penteo** now features a single installer for all products so you will find Penteo in your DAW menu list under 'Penteo' – no longer 'Penteo 16 Pro'. Once selected, Penteo will automatically activate for the iLok licensed product – either Penteo 360, Penteo 16 Pro or Penteo 16 Pro+

Updates

- **ProTools 2021.12 support**
- **237 Direct Downmix Channel Pairs Added-** Penteo has added new direct downmix pairs of input/output channel combinations by enhancing the DSP to preserve the LCR channel integrity between Immersive input formats downmixing to 5.1 surround. This update improves every immersive input format across all formats

Enhancements

- **Low Latency Persistence** – is a new option on Penteo's settings panel. When selected as 'default', low latency will remain in that mode as a universal default until deselected.
- **AU** – Apple Audio Unit (AU) plugin format is now supported
- **Apple M1 64bit architectures** are now natively supported by Penteo



DAWs

- Pyramix is now a fully-supported DAW up to 16 channels
- Logic Pro is now a supported DAW up to Dolby Atmos 7.1.4

Platforms

- Windows 10, M1 Mac OS Big Sur

Fixes

- Windows Installer now removing Penteo16Pro.vst properly
- Missing parameter on Ambisonics output resolved
- Binaural default to off for new sessions, can be enabled in Settings