

What's New from KLIPPEL

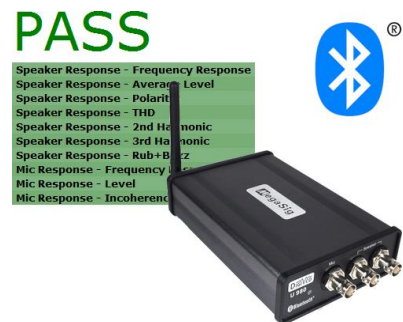
December 13th, 2020

Software Update

The KLIPPEL software dB-Lab version 210, the unified framework for R&D and QC audio testing, diagnostics and simulation, has received a minor update. It is free of charge for any dB-Lab 210 user. It includes bugfixes and minor feature updates for released modules and beta test products like the [Live Audio Analyzer \(LAA\)](#). More information about the new software update can be found on our [website](#) and also in the "[What's new in dB-Lab 210 – QC 6.4](#)" information sheet.

MegaSig U980 Bluetooth® Interface

KLIPPEL now officially distributes and supports the *MegaSig U980* professional *Bluetooth* interface. Together with the *KLIPPEL Analyzer System* this USB-controlled, analog signal converter supports reliable testing of any audio device enabled with Bluetooth wireless technology such as portable speakers, wireless headsets, and true wireless earbuds with a fully integrated solution for both lab and end-of-line context. The [External Devices \(EXD\) Bluetooth](#) software integration provides fast, automatic, name- or address-based pairing as well as broad codec support in both *A2DP (SBC, aptX™, aptX™ HD & LL)* and *HFP (CVSD, mSBC)* audio profiles. More information about the Bluetooth interface update can be found in the [accessory section](#) of our website.



New Application Notes

KLIPPEL has released new application notes for the *KLIPPEL Analyzer System*. The guides provide practical instructions for testing modern, wireless audio systems including speakers with Bluetooth® wireless technology, wireless headphones, smart home devices, tablets, smart phones, car audio systems, TV sets and many more. In addition to testing the acoustical output, this also includes microphones for communication and voice services that are included in most devices today.

The app notes cover following features:

- Measurement of audio devices with long and variable delay
- Test strategies for closed- and open loop-testing (based on audio files)
- Focus on Bluetooth wireless technology.

“AN72 Testing Wireless Audio Devices with KLIPPEL R&D System” is suitable for lab testing applications using KLIPPEL R&D framework focusing on frequency response, harmonic distortion, rub and buzz and intermodulation distortion using [Transfer Function \(TRF\)](#) and [3D Distortion \(DIS\)](#) measurement tools.

The second app note “AN76 Quality Control of Wireless Audio Devices” focuses on fast quality control in lab or end of production line note using the KLIPPEL QC Framework. It addresses topics like robustness and speed with assisted pairing and Bluetooth audio profile control. It includes features of the [QC Standard software](#) as well as related add-on modules like [External Synchronization \(SYN\)](#) for sample-accurate testing using unique noise trigger ID signals. Also, “AN 73 QC Headphone Testing” has been revised with the latest Bluetooth testing features.

The new application notes are now available on the [KLIPPEL website](#).