

What's new dB-Lab 210

Supports new R&D Software Modules:

- HMA – Higher Order Modal Analysis:
Automatic extraction of modal parameters from SCN measurements and FEA simulations
- SIM-AUR – Simulation-Auralization:
Nonlinear and thermal simulation and auralization of speaker performance with music
- CRC – Complex Room Compensation:
Correction filter for compensating room influence in standard measurements
- LS13 Woofer – Large Signal Identification Woofer (for KA3)
 - Advanced nonlinear model
 - Dedicated to electro-dynamical transducer ($f_s < 500$ Hz)
 - Driver in free air, vented, sealed enclosure
 - Start with given small signal voltage
 - Import custom voice coil material coefficient
 - Improved excitation noise generation
 - Less heating by band-pass boost around resonance
 - Adjusted frequency range for excitation band-pass
 - Switch speaker polarity when viewing data
- LS13 Micro-Speaker (for KA3)
 - Advanced nonlinear model
 - Dedicated to Headphones, Micro-Speakers ($f_s < 2$ kHz)
 - Optimized signal crest factor using multi-tone excitation

Supports the new Klippel Analyzer 3 (KA3)

Hardware-features

- Adaptable, modular hardware concept
- Wider frequency range ($f_s \leq 192$ kHz)
- Excellent sensitivity, SNR and distortion
- New measurement modules for evolving needs
- Sturdy, compact hardware at high performance
- Promotes well-organized cable placement
- Identical speaker channels, for which each offers high sensitivity current measurements (e.g. for micro-speakers)
- Comes with a second laser-input in standard configuration

QC-Tasks are now available for R&D (KA3):

- Air Leak Detection / Air Leak Stethoscope
- Balanced Armature Check
- Motor + Suspension Check
- Linear Suspension Test
- Impedance-Task
- SPL – Task
- Makes it easier to compare R&D specifications with end-of-line results