

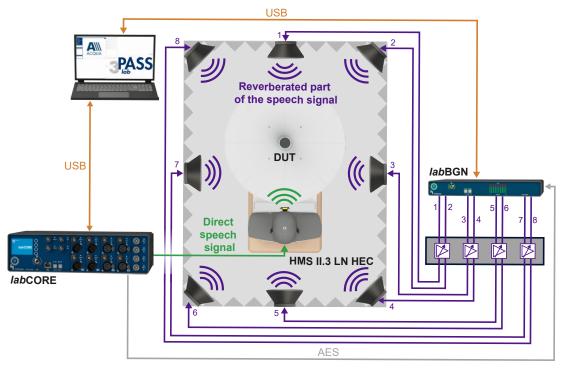
DATA SHEET

3PASS reverb

Option for 3PASS: Simulation of Reverberation Scenarios

Code 6996

3PASS reverb is an option for 3PASS lab and 3PASS flex. It extends 3PASS lab/3PASS flex to simulate reverberation of a single talker at the microphone of the device under test. 3PASS reverb supports measurements according to ETSI TS 103 557.





OVERVIEW

KEY FEATURES

- Reproducible simulation of reverberation for arbitrary source signals
- Works with existing and equalized setups from 3PASS lab and 3PASS flex
- > Included reverberations for various rooms
- > Recording of customized impulse responses

APPLICATION

Performance evaluation of speech signal processing affected by reverberation simulation.

REQUIREMENTS

Software

ACQUA (Code 6810)

Advanced Communication Quality Analysis Software, Full license version

One of the following background noise simulation applications:

3PASS lab (Code 6990)

 Advanced background noise simulation system with automated equalization – lab version

3PASS flex (Code 6995)

 Advanced background noise simulation system with automated equalization – flex version

Hardware

One artificial head of the HMS II Series including an artificial mouth.

labCORE (Code 7700)

- > Modular multi-channel hardware platform coreBUS (Code 7710)
- > labCORE I/O bus mainboard coreOUT-Amp2 (Code 7720)
- labCORE power amplifier board

DETAILS

Description

3PASS reverb works with an impulse response that has been recorded in a specific room. The impulse response describes the acoustic fingerprint of the room. 3PASS reverb simulates the reverberation of the room by applying the impulse response to a source signal. Simultaneously, an artificial head or loudspeaker plays back the source signal via ACQUA without reverberation. Consequently, 3PASS reverb simulates a realistic sound field with the reverberation of a determined room. Test room requirements shall comply with ETSI TS 103 557 requirements.

By default, 3PASS reverb includes impulse responses for various rooms. Recordings of impulse responses for customized rooms are possible. 3PASS reverb can calculate room parameters (e.g., reverberation time RT60 and clarity C80) for evaluating the quality of a recorded impulse response.

Options

Equipment for Preparatory Measurements

corelN-Mic4 (Code 7730)

> labCORE microphone input board

Measurement microphone

> Third-party product

SCOPE OF DELIVERY

3PASS reverb (Code 6996)

- as V2C file for 3PASS dongle
- Prepared room impulse responses, background noises, and ACQUA demo database

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