

Clinical audiometer AT2000

- › Multi-channel audiometer, with which more than 2 different signals can be played simultaneously from different transducers (e.g. speech in background noise via loudspeaker plus masking noise via plug-in headphones for SSD patients)
- › Special implant connection for direct stimulus presentation via hearing implants
- › 3 fully-fledged air conduction ports and 2 fully-fledged bone conduction ports for parallel use without replugging
- › Silent PC specially designed for AURITEC and the audiometer and built in Germany
- › Ergonomic control unit with silent sliders
- › Handcrafted speakers that comply with the speech audiometry standard
- › Loudspeaker with the option of controlling conditioning lamps or slide images
- › Ceiling sphere loudspeaker for diffuse noise



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- › Recording of a second series of measurements for all transducers in sound and speech audiometry (e.g. to determine an overhearing curve in AC)
- › Display of old measurement curves in the current measurement
- › Extended free-field measurement with polar plot for graphical representation of the measurement set-up
- › Documentation of hearing systems in patient management
- › Speech audiometry with the option of documenting the incorrect answers in the software

Options (modular retrofitting)

- › Multilingual and innovative speech audiometry
- › Multi-channel audiometry
- › Surround module with 8 pure channels that can be activated simultaneously; this allows different signals to be played independently at different volumes from several directions in order to create ecologically valid scenarios
- › Implant output for gentle testing of CI patients
- › Can be extended to a paediatric audiometry system with height-adjustable furniture with sound-absorbing and hygiene-friendly surfaces
- › Conditioning software with (own) images / videos
- › Connection to administration programmes via export function (e.g. with AudiologicX and ENTstatistics)
- › External hardware access with software like e.g. MatLab

Available test methods

- › Oldenburg and other language procedures (MATCH, AAST, mFAST) and WESTRA software
- › Arabic matrix test and Arabic child sentence test
- › ERKI as a validated test method for directional hearing with a 5° angular resolution
- › Dichotic tests

Supra-threshold test procedures

- › SISI, Lüscher, Carhart (autom.); Fowler, Stenger, Langenbeck, sweep-frequency Békésy
- › Tinnitus determination with narrowband noise

Technical data

Tone audiometry signals

- Sine, white noise, pink noise, narrowband noise, steep narrowband noise
- Standard frequency range: 125 Hz - 8000 Hz
- Highest tone audiometry: 10000 Hz - 16000 Hz
- Warble tone 4 to 20 Hz frequency modulation, 2.5 to 12.5 % amplitude modulation
- Pulse tone according to DIN EN60645-1
- Amplification up to 120 dB HL for air conduction (depending on frequency and transducer)

Masking signals

– Tone audiometry:

- Each test signal is also available for masking

– Speech audiometry:

- Speech masking noise (=SMN)
- Option between continuous playback and pauses between items
- Pre-presented noise

– Multichannel audiometry:

- Speech material
 - installed mono- and multisyllabic tests (e.g. Freiburg language and numbers test)
- Masking signals:
 - white noise, pink noise, speech masking noise, ISTS, cafe, classroom, country road, motorway, party noise

External inputs

- Response microphone

Outputs

- 3x air conduction (DD45, DD450, ER3C)
- 2x bone conduction (B81, KLH96)
- Free field right and left
- Line-out for CI direct control
- Speech audiometry listener
- Optional: 100dB and 110 dB loudspeaker
- Optional: 2x optical fiber for surround-modules (connects up to 16 free field speakers)

Class

- **Class II** for pure tone according to DIN EN 60645-1
- **Extendable to Class I**
- **Class B-E** for speech audiometry according to DIN EN 60645-1

PC specifications

- CPU Intel i5 or similar
- fanless
- Memory 8 GB RAM / Hard disc 250 GB
- Windows 11 Pro 64bit

Dimensions

Audiometer: 34Lx30Wx15H / Surround module: 34Lx30Wx10L / PC: 28Lx27Wx10H