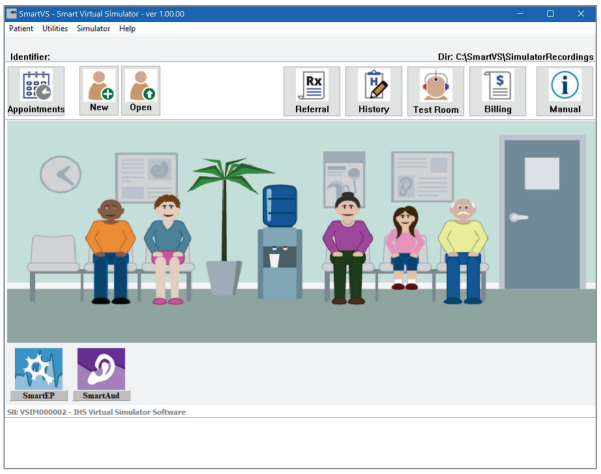
SmartVS™

innovative solution for virtual audiology training

Intelligent Hearing Systems is pleased to offer SmartVS™, a Smart Virtual Simulator software suite for audiology training. SmartVS™ is based on the user-friendly interface of our full-featured auditory diagnostic testing modules. SmartVS™ provides a realistic, virtual, testing environment from appointment scheduling to diagnostic testing, report generation and billing.



virtual testing room

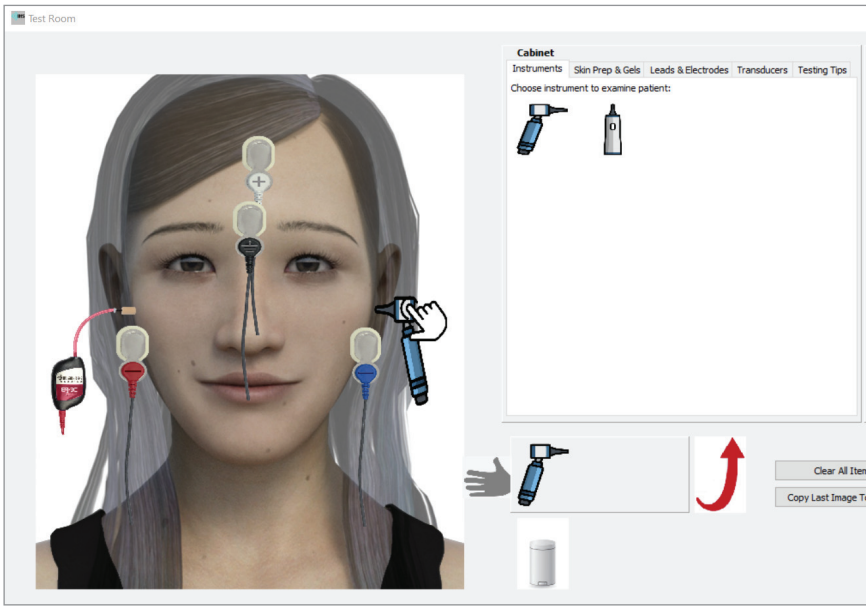
Begin your evaluation by selecting examination tools and supplies from the virtual tool cabinet. Once in your virtual hands, move and place them on the patient.
Virtual testing room experience features:

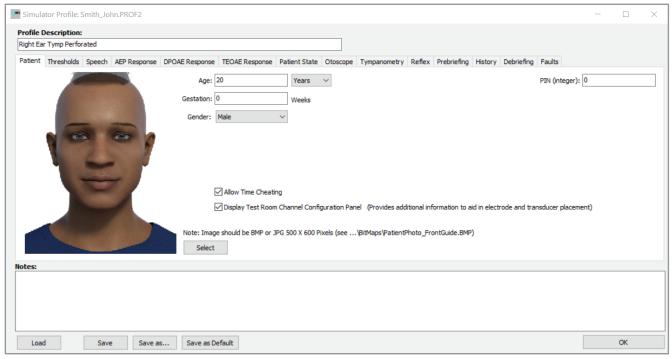
- Comprehensive tool cabinet including an otoscope, tympanometer, skin preparation supplies, transducers, electrode leads, and electrodes
- Perform and view virtual otoscopic exam
- Perform and view simulated tympanometry test
- Simulate patient skin preparation and electrode placement: resulting impedance and recordings will depend on how well the patient's skin was virtually prepped, and where the electrodes are placed

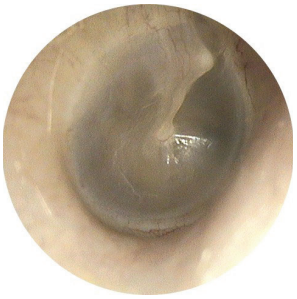
comprehensive patient profiles

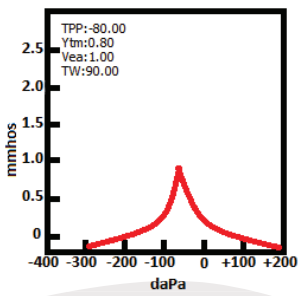
Complete library of virtual patient profiles representing various pathological conditions. Patient profiles can be generated and customized, and include:

- Demographic information and photo
- Otoscope image and Tympanogram for each ear
- Air conduction & bone conduction thresholds
- Auditory evoked potential responses
- Patient state at the time of testing
- History tab for patient background





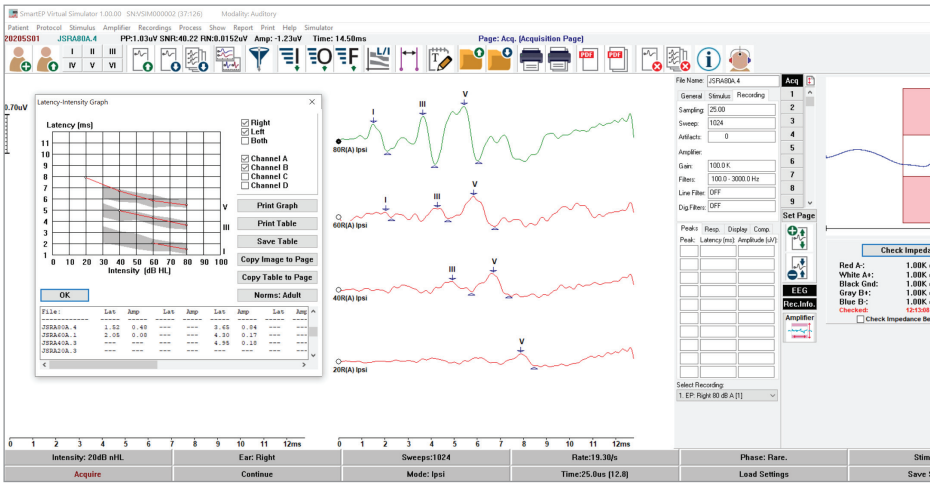




INTELLIGENT HEARING SYSTEMS

the audiology simulator you've been waiting for

SmartVS™ is the only virtual simulator designed for use in audiology training and requires no additional hardware. Individual semester licenses can be procured by a student and installed on the student's own Windows computer. The package includes a companion PDF book with basic concepts, recording procedure explanations, exercises, and additional readings and references.



streamlined workflow

Realistic patient workflow including appointment list, demographic data entry, history taking, testing, report generation and billing.
Testing modules include:

- Otoscopic evaluation
- Tympanometry
- Auditory evoked potentials (air & bone conduction)
- Audiometry
- Otoacoustic emissions (coming soon)

user-friendly features

- Easy access to all parameters from a simplified control panel and streamlined menus
- Improved toolbar and button design for fast access to key features
- Quickly load your own or preset protocols
- Change most test parameters with a single click

AEP features

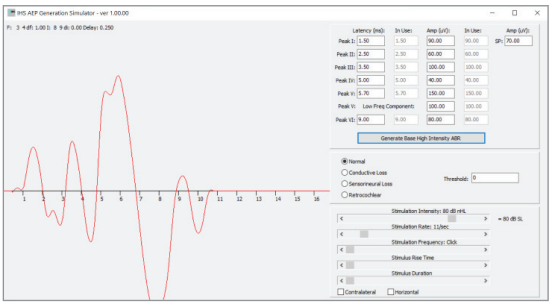
AEP testing simulation is based on the user-friendly SmartEP evoked potential system, the preferred choice for recording auditory evoked potentials.
SmartEP Virtual features:

- Easily mark waveforms using over thirty predefined peak labels, or create your own custom labels. Easily adjust them using a mouse or keyboard
- View latencies and amplitudes of peaks directly on waveforms and in newly embedded recording information panel.
- Automatically arrange recordings by intensity, acquisition order, stimulus frequency, or rate
- Easily view ongoing EEG display for quick assessment of patient state during testing
- Latency-Intensity graphs indicating normative data ranges are automatically generated from marked waveforms
- Quickly add, subtract, invert, time shift, or cross-correlate recordings

AEP parametric model

AEPs are generated on the fly based on a parametric model that adjusts peak latencies and amplitudes based on stimulus parameters, pathology, and electrode placement.

- Intensity Function
- Rate Function
- Stimulus Frequency Function
- Stimulus Rise Time
- Stimulus Duration
- Montage: Ipsilateral, Contralateral, Horizontal and Midline
- Pathologies: Conductive, Sensorineural, Retrocochlear



computer requirements

Windows 10, 4 GB RAM, 5 GB HDD or better

Minimum vertical resolution of 900 pixels (full HD recommended)

Mouse or other pointing device

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