

Dave™ Simulator

Simulated Signals and Responses

- Auditory Evoked Responses: Simulates responses such as ABR with single or dual ear testing.
- Click and Pure Tone Responses: Simulates responses using rates of up to 95 presentations per second.
- Auditory Steady-State Response (ASSR): Supports single-frequency ASSR with single or dual ear setups.
- Otoacoustic Emissions (OAE): Generates both Transient Evoked (TEOAE) and Distortion Product (DPOAE) signals.
- Audiometry: Provides simulated audiometry responses.

Features and Capabilities

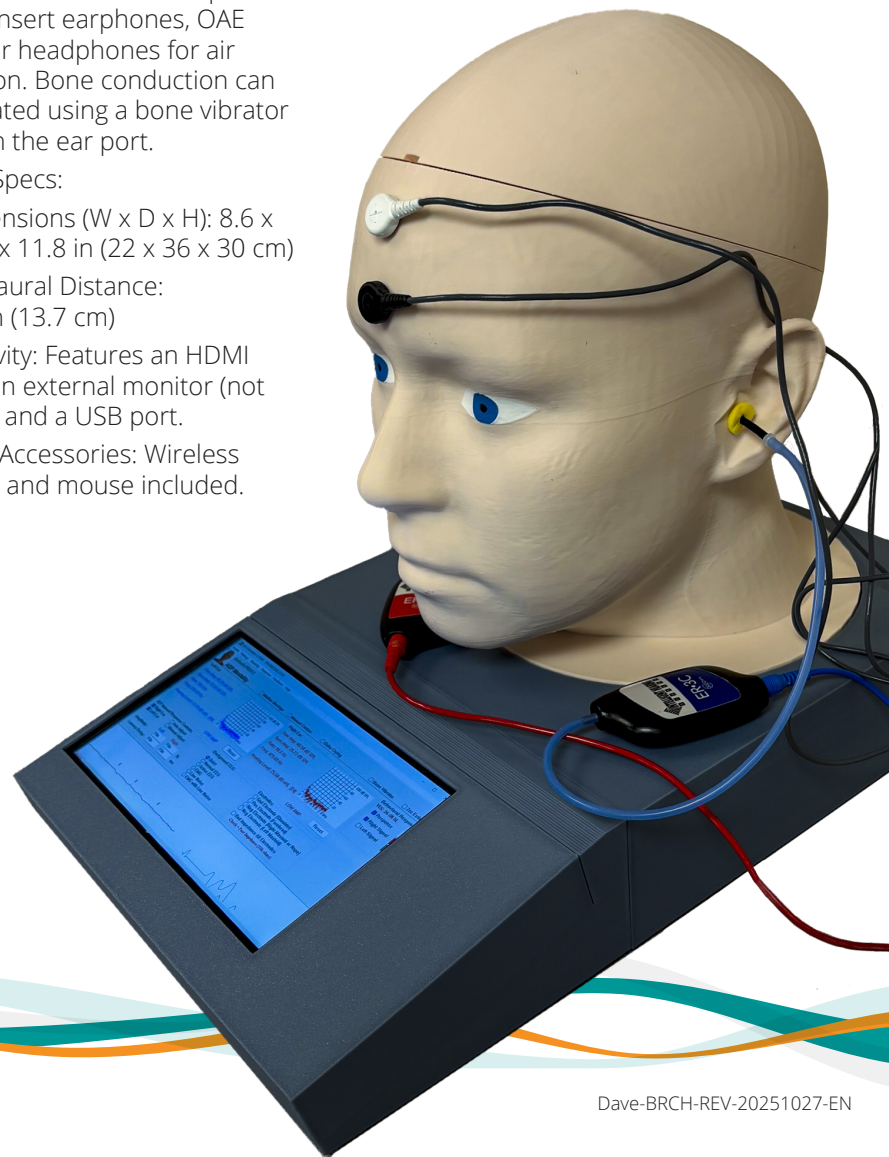
- Patient Profiles: Allows for the selection of various patient profiles, patient states, and background noise conditions (e.g., EMG, line noise, EEG activity).
- Response Modeling: Uses a parametric model to quickly shape generated responses or a response library to finely tune the hearing profile.
- Waveform Replication: Includes an image extraction tool to help replicate waveforms from images.
- Impedance Simulation: Simulates any combination of impedance problems with specific or all electrode positions.
- Electrode Support: Supports any type of surface electrodes and features both dual-channel and single-channel midline setups.
- Natural Interface: Allows for the use of inserts, headphones, and OAE probes.

Simulator Characteristics

- All-in-One Design: Includes the "Dave" head bust with an integrated processing unit and LCD screen. Separate PC not required.
- Universal Compatibility: Compatible with any brand of Audiometer, AEP, or OAE equipment.
- Connection Points: Features stainless steel electrode connection points (mastoids, high forehead, low forehead, nape) and stainless steel ear canal ports.
- Conduction Simulation: Ear ports support insert earphones, OAE probes, or headphones for air conduction. Bone conduction can be simulated using a bone vibrator placed on the ear port.
- Physical Specs:
 - Dimensions (W x D x H): 8.6 x 14.2 x 11.8 in (22 x 36 x 30 cm)
 - Interaural Distance: 5.4 in (13.7 cm)
- Connectivity: Features an HDMI port for an external monitor (not included) and a USB port.
- Included Accessories: Wireless keyboard and mouse included.

The Benefits of Simulation

- Training: Serves as a training tool for students, clinical and hearing screening personnel.
- Repeatable Testing: Allows consistent, repeatable testing in various noise conditions.
- Validation: Enables equipment testing and validation for performance measures or for sensitivity and specificity analysis.



Dave-BRCH-REV-20251027-EN