

Science **made** smarter

Virtual SVV™

Sense of vertical
made visual

Subjective
balance testing
with precise
and detailed
data analysis




Interacoustics

Audiometry

Tympanometry

ABR

OAE

Hearing Aid Fitting

Balance


Superior diagnostic sensitivity

Light-weight and comfortable goggles with foam face cushions. Wireless communication with PC for maximum freedom of movement

Spatial orientation and sensory-motor coordination rely on the accurate perception of gravity. The inner ear vestibular system provides the essential information for these tasks. Virtual SVV™ can be utilized to subjectively evaluate vestibular and otoneurologic function, while providing detailed quantitative data analysis.

Virtual SVV™ key features

- Subjective measures with quantitative data analysis
- Compact device for behavioral evaluation of vestibular and otoneurologic function
- Effective tool for monitoring compensation over time
- Sensitive to tilt at different head positions
- Game-like procedure is easy to understand and fun for children



The goggles are fitted with movement sensors to allow for SVV testing to be performed at multiple static tilt angles.



Functional testing of the utricles

The Virtual SVV™ aids in the diagnosis and rehabilitation of vestibular dysfunction. It provides a simple and non-invasive behavioral technique for differential diagnosis of the vestibular apparatus, and in particular, of the otolith organs. Measurement of the subjective visual vertical permits functional testing of the utricles.

An individual with a healthy otolith system can easily determine what is vertical with great precision. The estimation of the subjective visual vertical thus serves as a behavioral evaluation of utricular function. Clinical research has already demonstrated that isolated utricular dysfunction can occur.

Virtual SVV™ complements the traditional vestibular assessment battery, allowing you to accurately test all 10 balance organs in every patient.

Static tilt upright

Static testing performed with the head in an upright position provides the examiner with more precision than the traditional SVV bucket test.


In the presence of an otolith disorder the patient is likely to experience a sensation of tilt and accordingly, will set the SVV with some deviation relative to head axis, i.e. relative to gravity.

Static tilt angles

Unlike the traditional SVV bucket test, the head sensor in the Virtual SVV™ goggle allows for additional testing to be conducted at multiple static tilt head positions for a more comprehensive evaluation.

Virtual reality goggle and handheld remote

The lightweight, light-occluding virtual reality goggle provides the patient with a display of the luminous line, which can be rotated using the buttons on the handheld remote. Integrated into the goggle is a six degree-of-freedom movement sensor that provides continuous information on the head position.



Exchangeable foam face cushions allow for form fitting to each individual's face, ensuring the occlusion of any ambient light during the examination.

The handheld remote has three control buttons that are operated by the patient during testing. These enable the patient to rotate the luminous line clockwise and counterclockwise, and to confirm the position of the line. The rechargeable battery provides for operation over several hours. It is automatically re-charged when placed in the cradle of the base station.

Base station and software

The base station is connected to a standard USB port on the PC (Windows). The base station communicates with the virtual reality goggle via a wireless receiver and transfers the measurement data to the software.

The Virtual SVV™ software provides the operator with a comprehensive online real-time display for the monitoring of the patient's head position and angle of the luminous line while the patient is performing the task. Throughout the test procedure the deviation of the luminous line from the true vertical is displayed. Each SVV estimate confirmed by the patient is entered on a chart against the expected threshold range. Upon completion of the examination all data are stored and a report sheet is generated that can be output in PDF or hardcopy form.

**Easy to use
Simple, quick and
user-friendly for
both the examiner
and the patient**

**Complete
darkness
for testing.
Data is stored
in the OtoAccess™
database**

The game-like nature of the test procedure allows for a behavioral measure of vestibular end-organ function in pediatric patients.

Science made smarter

Interacoustics is more than state-of-the-art solutions

Our mission is clear. We want to lead the way in audiology and balance by translating complexity into clarity:

- Challenges made into clear solutions
- Knowledge made practical
- Invisible medical conditions made tangible and treatable

Our advanced technology and sophisticated solutions ease the lives of healthcare professionals.

We will continue to set the standard for an entire industry. Not for the sake of science. But for the sake of enabling professionals to provide excellent treatment for their millions of patients across the globe.

Interacoustics.com

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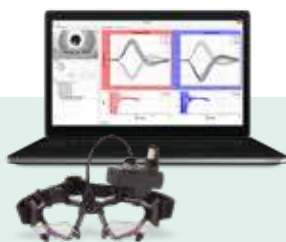
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Related products



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VisualEyes 505
Video Frenzel



VisualEyes 525
Complete VNG solution for
balance assessment

Product specifications

All technical and hardware specifications concerning all products can be downloaded from our website.

