

Stepwise Sweep VEP

Visual Acuity Assessment Module

The Diagnosis Stepwise Sweep VEP (ssVEP) module is an automated method to assess visual acuity objectively using visual evoked potential (VEP) techniques. The Diagnosis ssVEP module is based on methods developed and published by Bach, et al^{1,2} and runs on a wide range of Diagnosis systems.

Features

Ultimate performance

- Broad range of acuity: 20/20 to over 20/400 (6/6 to over 6/126)
- Automatic noise-corrected response amplitudes
- High performance pattern onset VEP methodology
- Utilizes custom engineered, high performance monitors
- System and VEP techniques consistent with ISCEV standards

Automated and easy to use

- Fully automated visual acuity estimate and confidence limit
- Standard protocol takes only 4 minutes per eye to run
- Preset protocols for a variety of acuity ranges
- Easy to follow instructions
- Fully automated as well as manual selection modes

Applications

- Unexplained visual loss
- Pediatric
- Non-organic visual loss assessment
- Functional neurological symptom disorder
- Objective assessment when subjective is questionable



*Sweep VEP protocol
running on Diagnosis
systems at 40% contrast*



1. Bach, M, Maurer, JP, Wolf, ME; "Visual evoked potential-based acuity assessment in normal vision, artificially degraded vision, and in patients;" Br J Ophthalmol 92:396-403, 2008.
2. Hoffman, MB, Brands, J, Behrens-Baumann, W, Bach, M; "VEP-based acuity assessment in low vision;" Doc Ophthalmol 135:209-218, 2017.
3. Bach, M, Farmer, JD; "Evaluation of the 'Freiburg Acuity VEP' on Commercial Equipment;" Doc Ophthalmol (2020) 140:139-145

