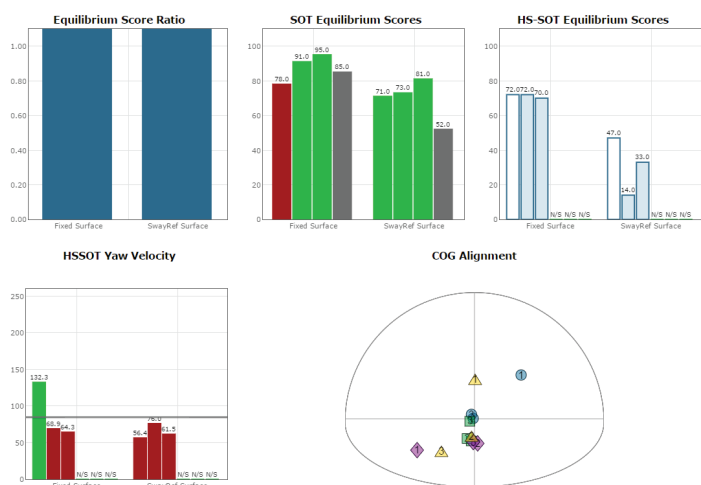


Bertec® Balance Advantage®

Head Shake – Sensory Organization Test (HS-SOT) Option for CPD/IVR™

The Head Shake-Sensory Organization Test (HS-SOT) option adds sensitivity to the SOT to detect subtle balance problems associated with head movement. Head turn tasks are added to Conditions 2 and 5 to challenge postural control under vestibular demand conditions. Used when patients are symptomatic with head movement and SOT results are normal. Useful with neurologic, head injury, and vestibular populations to identify subtle balance impairments that may appear only with head movement.

- Wireless head-worn transmitter to measure and record head movement
- Transmitter initiation and calibration built in to software. No need for separate operation step
- Test results compare equilibrium scores for head moving to head stationary conditions
- Increased performance challenge to help identify balance impairments that occur only with head movement



Standard Package

HS-SOT software, to be added to Bertec® CDP/IVR™ system

Head worn transmitter Receiver module, to be added to Bertec® Balance Advantage® CDP/IVR™ system computer

Included Accessories

Headband, elastic fabric band with velcro fastener Transmitter fits in elastic pocket on headband. Can be laundered. Recommend use with surgical bonnets

(package of 100 supplied with purchase)

Options

The HS-SOT option is available on the Bertec® CDP/IVR™ system

Assessment Protocols

Standardized two condition protocol (up to six trials in each condition)

SOT Condition 2 (eyes closed, fixed support surface) and Condition 5 (eyes closed, sway-referenced support surface) are tested with head movement. User selected plane of sinusoidal rotation at set velocities: Yaw at 85 degrees/sec., Pitch at 60 degrees/sec, Roll at 40 degrees/sec. Equilibrium scores for head stationary and head moving conditions are compared and reported.

The HS-SOT protocol is most often used for patients reporting balance problems AND the SOT results for head stationary conditions are within normal limits. The HS-SOT results may help identify head movement conditions that result in balance performance below expected levels.

Specifications

Sensor Wireless, Inertial Measurement Unit (IMU). Triaxial gyroscope, accelerometer, and compass sensors. 2.4 GHz DSSS communication interface. 35 mm x 60 mm x 15 mm (1.38 x 2.36 x 0.59 in.) Weighs 28 grams (0.98 oz.)

Supply voltage, +5 v USB

Rechargeable Lithium-Polymer Battery

USB 2.0, 2.4 GHz DSSS Wireless

Communication Interfaces, (FCC certified) Sampling Frequency 175 Hz

Communication Range, up to 200 feet

Use per charge, up to five hours

Charging Device, USB cable (included), +5v USB Temperature -40C~85C (-40F ~ 185F)

For more information, contact Bertec at 614-543-8099 or by email at support@bertec.com.