### Available Tests

<table>
<thead>
<tr>
<th>TEST</th>
<th>I-Portal® NOTC Standard Version</th>
<th>I-Portal® NOTC Professional &amp; Clinical Versions</th>
<th>I-Portal® NOTC Clinical with Off Vertical Axis Rotation</th>
<th>I-Portal® SVNG*</th>
<th>I-Portal® VOG-B100*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous Nystagmus (CPT 92541)</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Gaze Nystagmus Vertical and Horizontal</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Saccade Vertical and Horizontal</td>
<td>X</td>
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<tr>
<td>Full Field Optokinetic (CPT 92544)</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Smooth Pursuit (CPT 92546) Vertical and Horizontal</td>
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<td>X</td>
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<tr>
<td>Subjective Visual Vertical and Horizontal</td>
<td>X</td>
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<tr>
<td>Visual (Suppression, Interaction, Enhancement)</td>
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<td>X</td>
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<tr>
<td>Chair Trapezoidal (Step Test)</td>
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<tr>
<td>Sinusoidal Harmonic Rotation (Chair Sine) (CPT 92546)</td>
<td>X</td>
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<tr>
<td>Full Body Head Thrust</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Dynamic Unilateral Centrifugation with SVV</td>
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<td>X</td>
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<tr>
<td>Dynamic Off Vertical Axis Rotation**</td>
<td>X</td>
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<tr>
<td>nTBI / Concussion Research Module**</td>
<td>X</td>
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<tr>
<td>Caloric (CPT 92543)</td>
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<td>Positionals (CPT 92542)</td>
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<tr>
<td>Positioning (Dix-Hallpike)</td>
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<tr>
<td>Custom (e.g. Torsion Observation and Analysis)</td>
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<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

*I-Portal®-SVNG and VOG-B100 modules not included in NOTC packages.

**For research purposes only; not cleared for clinical use.

### Support and Training

#### Service Support
- Web enabled assistance for live, interactive help.
- High quality technical and clinical service team.

#### Training
- Multiple training offerings including both basic equipment use and research level applications.

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**Caution**

Laser radiation. Do not stare into beam.

Laser Diode
Max. Output: <1mW
Wavelength: 650nm
Class 2 Laser Product
IEC60825-1:2007

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**Neuro Kinetics, Inc.**

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Form L-201-13
VEST™ Neuro-Otologic Analysis Software

Video recording and playback with frame by frame control now available for NOTC tests.

Options
- Binocular/monocular goggles and EOG available.
- Dynamic Off Vertical Axis Rotation (OVAR)
  - Evaluation of both otolith organs.
  - Allows for otothil testing in infants/children and difficult to test populations.
  - Research purposes only; not cleared for clinical use
- Parent / Child System
  - Enables small infant testing on axis.

Eye Tracking
- Dynamic Off Vertical Axis Rotation (OVAR)
- Evaluation of both otolith organs.
- Allows for otothil testing in infants/children and difficult to test populations.
- Research purposes only; not cleared for clinical use

Full Body Head Thrust Test
- Unpredictable stimulus for higher test accuracy.
- Evaluation of right and left VOR function.
- Measureable and repeatable.

Caloric Irrigator
- Air or water with computer controlled temperature, flow rate, and timing.

New report selection matrix makes it easy to print a summary or select test grouping.

New reporting format provides enhanced organization and presentation of patient data.

NOTC Configurations

NOTC Standard
- Standard single axis clinical testing system.
- 185 ft. lb. Rotaty Motion Stimulus
- Light Tight Enclosure with Patient Monitoring
- Dual Axis Pursuit Tracker™ Oculomotor Stimulus
- Full Field Optokinetic Stimulus
- I-Portal® 100 Hz Binocular VOG Goggle
- High speed operating computer with flat panel LCDs

NOTC Professional
- NOTC Standard plus Dynamic Unilateral Centrifugation and Subjective Vertical and Horizontal tests.
- Dynamic Unilateral Centrifugation separately tests left vs. right otothil function at level of vestibular cortex and otothil-cortical response.
- Dynamic axis eliminates manual setup and maximizes patient comfort.
- Subjective Vertical and Horizontal provide interactive and easy evaluation of utricle function.

NOTC Clinical
- NOTC Professional with 365 ft. lb. motor upgrade.
- Accurately test 400 lb. patients up to 2.5 Hz
- Allows for addition of Off Vertical Axis Rotation (OVAR), Full Body Head Thrust, and Parent/Child,
  (additions not included).

System Hardware

Dynamic Vestibular Assembly
- Designed for maximum patient comfort.
- Patented drive motor accurately tests patients up to 400 lbs. at up to 1.28Hz.
  (2.5Hz with motor upgrade) US Pat. No. 7,199,471.
- Servo motor control with high resolution encoder creates precise motion profiles.
- Fiber optic slip ring passes noise free eye data.
- Adjustable fore-aft position puts patient on axis for accurate and comfortable testing.

Light Tight Enclosure
- Enclosed testing environment isolates patient.
- No visual or sound cues ensure accurate test results.
- Infrared video to monitor patient alertness and comfort.
- Hands free intercom provides ear level sound with adjustable amplification for the hearing impaired.

Oculomotor Stimuli
- Patent pending Pursuit Tracker™ laser diode system and Optokinetic sphere.
- Pursuit Tracker™ provides true smooth pursuit testing. Independent horizontal and vertical control allows for virtually unlimited test protocols.
- Optokinetic sphere projects full field light pattern required for true OPK system evaluation.

Eye Tracking
- Binocular/monocular goggles and EOG available.
- Dynamic Off Vertical Axis Rotation (OVAR)
  - Evaluation of both otolith organs.
  - Allows for addition of OVAR, Full Body Head Thrust, and Parent/Child,

Caloric Irrigator
- Air or water with computer controlled temperature, flow rate, and timing.

I-Portal® 100 Hz VOG Goggle
- Patented digital eye tracking with real time analysis.
- Provides 4D tracking: torsional, horizontal, vertical, and pupilometry measurements.
- High frame rate to accurately capture saccades.
- Light weight for exceptional patient comfort and accurate testing at high chair frequencies.
- US Patent No. 7,448,751; 7,520,614; 7,651,224; 7,685,845; 7,731,360; 7,753,523; and 7,866,818; other patents pending.

Options
- New reporting format provides enhanced organization and presentation of patient data.