The SMART EquiTest System is the gold standard in balance assessment with Computerized Dynamic Posturography.

**Key Treatment Areas:**
- Concussion Management/Traumatic Brain Injury
- Fall Prevention - Older Adults
- Vestibular Rehabilitation
- Worker’s Compensation
- Neuro Rehabilitation
- Dizziness
- Research & More

**Objective Balance Assessment & Dynamic Training Protocols**

Count on objective, evidence-based information from the NeuroCom Family of Balance Manager Solutions.
Computerized Dynamic Posturography (CDP) 

The Industry Gold Standard for Over 30 Years

Computerized Dynamic Posturography (CDP) comprised of the Sensory Organization Test (SOT), Motor Control Test (MCT) and Adaptation Test (ADT) protocols is the standard of care for the assessment and treatment of patients with balance, dizziness and mobility problems. Because CDP can identify and quantify the sensory (visual, vestibular and somatosensory) and motor functions involved in balance control, the information obtained provides an efficient means of understanding your patients’ balance deficits and can effectively guide your treatment planning.

SMART EquiTest Advantages:

**Efficient**
CDP testing efficiently isolates and quantifies the impairments underlying your patients’ balance problems.

**Effective**
This impairment information is used to focus treatment on specific problems, effectively addressing deficits leading to improved outcomes.

**Practical**
CDP results can be used by multiple disciplines to guide treatment decision-making and provide superior case management to patients with balance and mobility disorders.

**Proven**
NeuroCom CDP test protocols have a 30 year record of clinical use supported by peer-reviewed research.

Only with NeuroCom Dynamic Systems

Computerized Dynamic Posturography including the SOT, MCT and ADT is available only on NeuroCom EquiTest®, SMART EquiTest and Clinical Research Systems products.
Clinical significance of CDP test information

Patient case:
A 50 year-old male who complains of feeling unbalanced, especially at night and in dimly lit environments. No history of falls.

CDP impairments:
1. Ineffective use of vestibular inputs for balance on SOT conditions 5 and 6 (see A below)
2. Good awareness of body position in space on the SOT Center of Gravity Alignment display (see C below)
3. Normal automatic motor responses on the MCT (see B below)
4. Normal ability to adapt to abrupt changes in surface inclination on the Adaptation Test (ADT)

Treatment plan:
1. Refer patient for otologic evaluation
2. Refer for appropriate rehabilitation pending results of otologic exam

- Train to maximize the use of vestibular cues for postural control and balance, and optimize center of gravity alignment
- Education on balance strategies to compensate for decreased use of vestibular cues pending otologic examination results

Prognosis:
Prognosis is good for resolution of symptoms, performance of safe mobility at night and prevention of future falls assuming stable vestibular system on subsequent testing.

Significance:
NeuroCom® CDP efficiently identifies the functional balance impairment to effectively plan your patient’s medical and rehabilitative care, address and decrease patient symptoms and complaints, and optimize functional outcomes.
**Components Include:**

- NeuroCom® Balance Manager® Clinical Software Suite
- Dynamic forceplate (rotate and translate)
- Moveable visual surround with LCD display and illumination
- Overhead support bar with patient harness set
- Windows®-based computer
- Two LCD monitors for operator and patient
- Medical-grade isolation power supply
- Color printer
- Wireless mouse
- Ergonomic point-of-care cart

**Accessories Include:**

- **B100012-00** Harness Kit (Sizes: S/M/L)
- **NCM-FOAM** Foam pad: 18 x 18 x 5 in (46 x 46 x 13 cm)
- **P102604-00** Blocks for Prepkit include:
  - Rocker board
  - Step-up blocks: 4 in (10 cm) and 6 in (15 cm)
  - Leveling block: 2 in (5 cm)
  - Heel/toe wedges: 6° and 12° A/P
  - Inversion/eversion wedges: 3° and 6° M/L

**Options**

- **NCM-LFP** 18” x 60” static forceplate
- **NCM-INVD** inVision software and head tracker (PTT, DVA, GST, HS-SOT & VOR Training)
- **NCM-GAMES** NeuroGames
- **NCM-DATA-D** Data Acquisition Tool Kit (D.A.T.a)

**Standard Software Protocols Include:**

- **Sensory**
  - Sensory Organization Test (SOT)
  - Functional Limitations
  - Unilateral Stance (US)
  - Training Protocols
    - Sequence Training
    - Weight Bearing Training
    - Custom Training

- **Motor Impairments**
  - Motor Control Test (MCT)
  - Adaptation Test (ADT)
  - Limits of Stability (LOS)
  - Rhythmic Weight Shift (RWS)
  - Weight Bearing Squat (WBS)

**Physical Dimensions**

<table>
<thead>
<tr>
<th>(W x D x H)</th>
<th>in</th>
<th>cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembled dimensions</td>
<td>53 x 61 * x 94</td>
<td>135 x 155 * x 239</td>
</tr>
<tr>
<td>Base</td>
<td>53 x 61 x 6</td>
<td>135 x 155 x 15</td>
</tr>
<tr>
<td>System cart</td>
<td>25 x 24 x 44-57 **</td>
<td>64 x 61 x 112-145 **</td>
</tr>
<tr>
<td>Dual Forceplate</td>
<td>18 x 18</td>
<td>46 x 46</td>
</tr>
<tr>
<td>Step height</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>Visual surround</td>
<td>42 x 36 x 74</td>
<td>107 X 91 X 188</td>
</tr>
<tr>
<td>Maximum subject height</td>
<td>80</td>
<td>203</td>
</tr>
<tr>
<td>Maximum subject weight</td>
<td>440 lb</td>
<td>200 kg</td>
</tr>
</tbody>
</table>

* *Depth extends to 64 in (163 cm) with surround in resting position.*

**Electrical Characteristics**

- 100-240 V / 50-60 Hz / 1200 W
- Compliant with the latest medical standards.

**Performance Characteristics**

- Rotation of the dual force plate and visual surround is controlled by independent direct current servo motors.
- Force plate rotation ± 10°, maximum velocity 50°/sec
- Visual surround rotation ± 10°, maximum velocity 15°/sec

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**“Since investing in the SMART EquiTest system and inVision software, our revenues have increased by 104.9% over one year. We are opening up a Balance Center, as we are now known as the Balance Experts in Missoula. This equipment has provided us with the opportunity to treat those patients with a true balance impairment or problem with dizziness who otherwise would be thrown back into the loop of medical referrals without answers or solutions. It gives people a chance to feel normal again.”**

— Amy Downing, PT, Owner

Element Physical Therapy, Missoula, MT

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For more information, please contact your local Natus District Sales Manager at 1-800-303-0306 or visit www.natus.com.