LEGSys™
A Wearable Sensor System for Gait Analysis
Quantitative gait analysis in 5 minutes or less without the restraints of a gait laboratory

Automatically generated reports demonstrate patient progress toward measurable goals

Proprietary technology based on wireless wearable sensors that are portable and easy to use

Validated using state-of-the-art camera-based motion capture

Effortlessly add a quantitative walk test to your fall risk screenings

Android compatible

LEGSys™ FEATURES

WIRELESS: LEGSys™ sensors wirelessly transmit data in real-time through Bluetooth, enabling you to run gait tests virtually anywhere.

INSTANT REPORT GENERATION: LEGSys™ software generates easy-to-interpret PDF reports, which can be instantly printed or saved to a patient’s medical record.

TURN YOUR SMARTPHONE OR TABLET INTO A MOBILE GAIT LAB: The LEGSys™ Android App functions just like the PC software, further enhancing the portability of the LEGSys™ system; e-mail gait reports anywhere directly from the LEGSys™ app on your mobile device.

QUICK FACTS

Sensor Size: 5.0 cm x 4.2 cm x 1.2 cm
Weight: 19 grams (0.67 oz.)
Sample frequency: 100 Hz
Battery life: 4 hours of continuous data collection
Memory capacity: 4 hours of data storage
Data transfer: Bluetooth Class 1
**LEGSys™ OR LEGSys+™**

Upgrade to LEGSys+™ for full lower-limb motion capture including sagittal plane knee and hip angles, as well as superior-inferior and medial-lateral pelvis sway.

<table>
<thead>
<tr>
<th>TECHNOLOGY COMPARISON</th>
<th>LEGSys™</th>
<th>LEGSys+™</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Sensors</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Temporal Gait Parameters</td>
<td><img src="legsys.png" alt="LEGSys™" /></td>
<td><img src="legsys_plus.png" alt="LEGSys+™" /></td>
</tr>
<tr>
<td>Spatial Gait Parameters</td>
<td><img src="legsys.png" alt="LEGSys™" /></td>
<td><img src="legsys_plus.png" alt="LEGSys+™" /></td>
</tr>
<tr>
<td>Knee and Hip Angles</td>
<td><img src="legsys.png" alt="LEGSys™" /></td>
<td><img src="legsys_plus.png" alt="LEGSys+™" /></td>
</tr>
<tr>
<td>Pelvis Movement</td>
<td><img src="legsys.png" alt="LEGSys™" /></td>
<td><img src="legsys_plus.png" alt="LEGSys+™" /></td>
</tr>
<tr>
<td>Android Compatible</td>
<td><img src="legsys.png" alt="LEGSys™" /></td>
<td><img src="legsys_plus.png" alt="LEGSys+™" /></td>
</tr>
</tbody>
</table>

**EVLIVE YOUR PRACTICE WITH LEGSys™:**

**CONVENIENCE:** LEGSys™ is easily portable and can be set up and utilized anywhere. Conduct gait tests at your office, in patients’ homes, or anywhere in between.

**INDEPENDENCE:** With LEGSys™, you control when and where gait-assessments are run. No longer will you have to rely on outside facilities for quantitative gait assessment.

**ACCURACY:** LEGSys™ gait analysis algorithms have been validated and used in many clinical studies. ([www.biosensics.com/publications/#LEGSys](http://www.biosensics.com/publications/#LEGSys))

**OBJECTIVITY:** LEGSys™ objectively quantifies your patient’s gait, enabling you to document therapy outcomes and identify effective treatments.

**VALIDITY:** Illustrate to patients, as well as to insurance providers, the efficacy of your practice and the progress your patients are making with easy to interpret, measurable results.

**REIMBURSABLE:** LEGSys™ can be used as a part of reimbursable procedures under the following CPT codes: 97110, 97112, 97116, 97750, 97760, and 97761.
DISCLAIMER:

You must consult a qualified physician or health-care professional before using LEGSys™. Before use, please also consult the instructions and warnings supplied with LEGSys™. The LEGSys™ platform and algorithms for gait parameter measurement are protected by U.S. Patent No. 8,109,890, European Patent No. 1,511,418, and other patents pending. Developed and designed by BioSensics in Massachusetts. Assembled in the USA.