



The New WalkAide®  
**Bi-Flex™ Cuff:**

New Look, Same Confidence.

To learn more about the WalkAide® System  
and the new WalkAide Bi-Flex™ Cuff, please  
visit us online at [www.walkaide.com](http://www.walkaide.com).



Innovative Neurotronics, Inc.  
Austin, TX

888.884.6462

[www.walkaide.com](http://www.walkaide.com)



**WalkAide® System**

The Next Step Forward in  
Foot Drop Independence

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## Freedom For All Walks of Life

WalkAide® is an advanced medical device that may provide immediate and dramatic improvement in walking caused by stroke, incomplete spinal cord or traumatic brain injury, cerebral palsy or multiple sclerosis.

Interruption of the natural nerve-to-muscle communication between the brain and the leg inhibits one's ability to lift the foot naturally. WalkAide restores this lost communication by sending electrical signals to your peroneal nerve, which controls movement in your ankle and foot. These gentle electrical impulses activate the muscles to raise your foot at the appropriate time during each step. The result is a smoother, more natural and safer walking motion.

## FES and Neuroplasticity: an Exciting Scientific Finding

Recent evidence has shown that using functional electrical stimulation (FES) over time can promote positive changes in the function of the brain, a process called neuroplasticity.<sup>1, 2, 3</sup>

Essentially, the brain receives more accurate information about walking while using FES. This kind of feedback improves the organization and use of the residual connections between the brain and affected muscles. As this central nervous system recovery occurs, more natural walking patterns are developed with associated increases in walking speed and decreases in effort.

1. Stein RB, Chong SL, Everaert DG, Rolf R, Thompson AK, Whittaker M, Robertson J, Fung J, Preuss R, Momose K, Ihashi K (2006). A multicenter trial of a footdrop stimulator controlled by a tilt sensor. *Neurorehabil Neural Repair* 20(3):371-379.  
2. Stein RB, Everaert D, Chong SL, Thompson AK (2007). Using FES for foot drop strengthens Cortic-Spinal Connections. 12th Conference of the International FES Society.  
3. Thompson AK, Stein RB (2004). Short-term effects of functional electrical stimulation on motor-evoked potentials in ankle flexor muscles and extensor muscles. *Exp Brain Res* 159:491-500.

## Experience the Benefits of WalkAide

Some of the many advantages of WalkAide for treatment of foot drop may include:

- Small, self-contained unit requires only one AA battery.
- Improved walking speed and quality with less fatigue.
- Freedom to wear almost any type of shoe, or no shoes (if appropriate).
- Reduces atrophy and improves circulation, muscle condition, and bone density.

## The Difference is in the Design

The WalkAide System features several advantages over the competition:

- **Self-Contained System.** Does not require the use of remotes, heel sensors or external wires.
- **Single Battery Operation.** Operates up to 30 days on one AA battery, with no need for nightly recharges.
- **Patented Accelerometer.** Accurately analyzes leg movement to help promote a natural walking pattern.

## The New WalkAide® Bi-Flex™ Cuff: More Comfortable, More Accurate Mobility

