

A woman with curly hair, wearing a white t-shirt and black shorts, is walking on a paved path. She has a prosthetic leg on her right side. She is pushing a red Orion3 stroller. The background is a lush green garden with trees and bushes.

# ORION<sup>3</sup>

**Orion3 New Features:**

- Inertial Measurement Unit
- Standing Support Mode
- 3 day battery life
- Weatherproof

Enhanced stability. Efficient motion.  
Intelligent microprocessor control you can depend on.



endolite





“The reliable and predictable performance of Orion3 gives me confidence in getting around the garden and doing DIY.” Chris



# ORION<sup>3</sup>

Orion3 is suitable for K3 users who would benefit from stability on different terrains, slopes and steps and for those wishing to walk naturally and efficiently at their self selected walking speeds.

The safety and stability of Orion3 encourages users to evenly distribute their weight, offloading their sound side and lower back to reduce aches and pains commonly reported by amputees.

## Enhanced Stability Performance

Enhanced Stability Performance (ESP) increases the user's confidence and independence, reducing the risk of stumbles or falls and ensuring more balanced limb loading for greater long term health and protection.

ESP adapts hydraulic resistance in real time, providing optimal stance support whether walking in a crowded environment, on uneven terrain, slopes, steps and now also when standing. With situational awareness, Orion3 continuously monitors the user's activity and responds accordingly for greater safety.



### Controlled Stance Support

Supportive resistance throughout stance phase provides optimal stability for walking with greater safety and less effort on all-terrain.



### Standing Support

Maximum resistance stabilizes knee, on both flat and slopes, encouraging better posture and balanced loading to relieve pressure on sound limb and lower back.



### Stumble Recovery

Stance resistance engages during swing phase extension to ensure knee stability should the user stumble.



### Dynamic Slope and Stair Descent

Knee resistance progressively increases with immediate support on the first step and increasing support with further knee flexion for enhanced control and safety when descending stairs or slopes.



### Supported Sitting

Progressive hydraulic resistance ensures greater support and control to sit down with safety and confidence and more balanced loading across both limbs.

# Natural Efficient Motion

Knee flexion during swing phase varies according to walking speed. With microprocessor pneumatic swing control, Orion3 controls heel rise across a range of walking speeds for a more natural swing. The pneumatic control also makes it easier to initiate swing, saving energy with every step and ensuring more natural knee flexion especially at lower speeds.



## Optimal Stance Release

Orion3 releases high resistance just before the knee bends for optimal safety, easy knee flexion and reduced walking effort.

## Adaptive Speed Control

By sensing changes in walking speeds, Orion3 dynamically adapts pneumatic control in real time for a smooth, natural and energy efficient swing.\*

## Terminal Swing Damping

Swing phase extension is damped in late swing to soften knee movement and prevent terminal swing impact.



\*Studies have shown the reduced physiological cost of walking, with reduction in energy expenditure by up to 20% - please refer to our clinical compendium for further details.



# User Modes



- Users can switch to the free-knee flexion cycling mode at the press of a button.
- A flexion lock can be activated for comfort when standing for long periods of time. The lock can be set at angles of up to 45 degrees.

# Clinician Interface

The intuitive software makes it easy and quick to program Orion3 and it can be set up for a single walking speed for less active users or with multiple walking speeds for more active users. Smart Programming automatically calibrates settings for Optimal Stance Release and Adaptive Speed Control ensuring optimal gait characteristics and consistent results every time.



# Power

Now featuring Lithium Ion batteries, Orion3 users benefit from up to 3 days power, dependent on usage. A convenient battery life indicator allows users to check the battery status at the touch of a button. In low power situations, Orion3 emits an audible warning before switching to Low Power Mode, where the knee is fixed in high stance resistance to ensure user safety.



# Complementary Components

Orion3 works well in combination with Endolite Hydraulic Technology. By self-aligning to the terrain and remaining dorsiflexed for swing, our hydraulic ankle feet provide a smooth, safe and natural walking experience, helping to preserve the body for the long term. Multiple independent scientific studies\*, comparing Endolite hydraulic ankle-feet to non-hydraulic feet, have shown:

- Greater comfort, reduced socket pressures
- Improved safety, reduced risk of trips and falls
- Smoother, easier and more natural gait
- More evenly balanced inter-limb loading
- Greater user satisfaction



Echelon



EchelonVAC



EchelonVT



Elan



“I no longer have to think about changing my route or avoiding something, because I am more confident on uneven and varied terrain.” Becky

\*Please see Clinical Compendium available to download at [endolite.com](http://endolite.com)

# Features

- **Situational Awareness** – an Inertial Measurement Unit senses movement and speed to respond accordingly, in real time
- **Enhanced Stability Performance** – range of stance resistance optimizes safety at all times
  - **Controlled Stance Support**
  - **Standing Support**
  - **Dynamic Slope and Stair Descent**
  - **Stumble Recovery**
  - **Supported Sitting**
- **Natural Efficient Motion** - MPC pneumatics ensure energy efficient and smooth swing at multiple speeds
  - **Optimal Stance Release**
  - **Adaptive Speed Control**
  - **Terminal Swing Damping**
- Cycle Mode
- Fixed Angle Flexion Lock
- Knee Flexion to 130°
- Intuitive Programming Software
- Lithium Ion batteries with up to 3 days life, dependent on usage
- Battery Life Indicator
- Low Power Mode
- 3-year warranty, 20-month service interval
- Weatherproof

# Technical Information

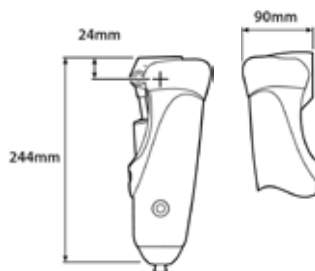
**Max User Weight:** 125kg (275 lbs.)

**Activity Level:** 3

**Weight of Unit:** 1.5kg (3.3 lbs.)

**Build Height:** 244mm

**Control Unit:** MPK Hydraulic/  
Pneumatic



# ORION<sup>3</sup>



## Part Number

ORION3  
(Excludes proximal adapter)

## Accessories

Battery Charger  
Kit - 950223  
Clinician's  
Manual - 938374  
User Guide -  
938375

## Proximal Attachments

(Ordered separately)

Rotating Pyramid  
with Shift - 239017

Non-rotating Pyramid  
with Shift - 239089

Female Pyramid  
with Shift - 189128

M36 Threaded Adapter  
with Shift - 239092



Registered Patent numbers; US5893891, US6517585, US6719806, 13/777,327 APP, EP1059898, EP1998723

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An annual visual inspection is recommended. Check for visual defects that may affect proper function. Maintenance must be carried out by competent personnel. Please check with your clinician before carrying out any new activities of daily living that you have not received training for with your Orion3.