

ORION³

Orion3 New Features:

Standing Support Mode

Inertial Measurement Unit

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

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Orion3 is suitable for K2 to K4 walkers who would benefit from stability on different terrains, slopes and steps and for those wishing to walk naturally and efficiently at either single or varying 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 stabilises 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.



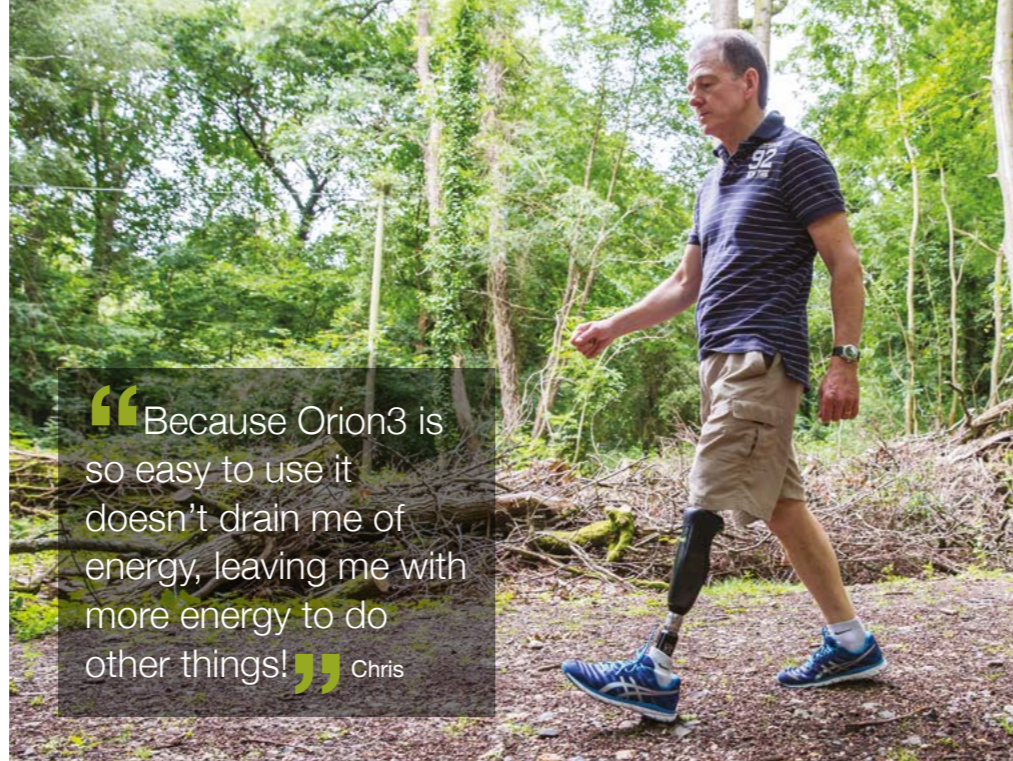
Dynamic Slope and Stair Descent
Knee resistance progressively increases with immediate support on the first step and increasing support with further knee flexion for enhanced control and safety when descending stairs or slopes.



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 spring also makes it easier to initiate swing, saving energy with every step and ensuring more natural knee flexion at lower speeds.



“Because Orion3 is so easy to use it doesn't drain me of energy, leaving me with more energy to do other things!” Chris

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

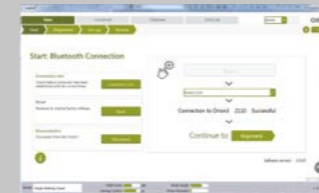


- Users can switch to the free-knee flexion cycling mode at the press of a button.
- A flexion lock can be activated for comfort when standing for long periods of time. The lock can be set at angles of up to 45 degrees.



User 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



Elan



AvalonK2



Echelon



EchelonVT



EchelonVAC



“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 blatchford.co.uk/endolite/echelonvac

Features

- **Situational Awareness** – an Inertial Measurement Unit senses movement and speed to respond accordingly, in real time
- **Enhanced Stability Performance** – 5 levels of stance resistance optimises 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 that can be extended to 6-years, subject to service at 20-month intervals
- Weatherproof

Technical Information

- Max User Weight:** 125kg
- Activity Level:** 2, 3, 4*
- Weight of Unit:** 1.5kg
- Build Height:** 244mm
- Control Unit:** MPK Hydraulic/Pneumatic



*Dependent on local reimbursement guidelines.

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Suitable for outdoor use

Part Number

ORION3

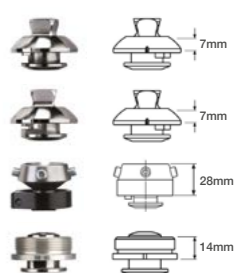
Accessories

- 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 - 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.