

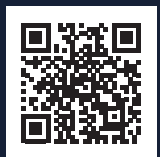
RECOVER
BOOST
CONNECT



INTUY[®] Knee

The motorized knee prosthesis

Intuitive
Active swing
Active support



INTUY[®] Knee



- 1 Brushless Motor with a Spindle**
 Powered assistance and active propulsion
- 2 Integrated Battery Pack and BMS**
 The proprietary battery pack and battery management system (BMS) enables high instantaneous power/current output. It also captures the regenerated energy by the motor, providing long autonomy
- 3 Dual-core ILK Brain: MCU+FPGA**
 The ILK Brain processes sensory signals and sends out motion commands 2000 times per second, fastest ever
- 4 Inertial Measurement Unit (IMU)**
 High quality MEMS sensors measure orientation and motion in real-time. Terrain changes are detected and user intentions are predicted.
- 5 Knee Torque Sensor**
 Knee torques are measured and feedback to the ILK Brain to ensure precise knee motion.
- 6 Ground Reaction Force (GRF) Sensor**
 GRF sensor measures the interaction with ground. Terrain changes and human motion are tracked accurately.
- 7 Bluetooth**
 Bluetooth low energy (BLE) allows real-time data streaming and parameters adjustment.

Benefits:

- Powered assistance and active propulsion, especially during standing up, stair and ramp ascent.
- Active swing and powered extension improves gait symmetry and reduce fatigue from the back and the intact leg.
- Step-over-step stair ascent. No exotic action is needed to trigger stair ascent.
- Automatic user intention detection and mode switching for most daily activities. Seamlessly transition from walking to running.
- Stumble detection and fall prevention algorithms
- Regeneration (charge the battery) during descent.
- Fully standalone operation with no compulsory phone/remote connection.
- Parameter adjustment by prosthetist using Intuy app, on Android or iOS, phone or tablet.
- Additional information such as daily/ total step counts can be provided by the app.

Specifications:

Model number	ILK-1B/ILK-1W
Color	Black/Silver
Weight rating	P6, 125 kg
Weight (with battery)	2.4 kg
Max knee flexion	120 deg
Battery standby time:	~44 h
Nominal walking range	21+ km at a 29% battery drop
Charging time	2 h
Protection level	IP45, weatherproof
Mechanical connection:	Male pyramid
Standard warranty	2 years
Max noise level (without cover)	50 dB @15cm
Max joint torque	100 Nm