Valiant 2 Pediatric
Robust and reliable treadmill that can be controlled by external devices

Highlights

High standards
Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEE compliant and Lode is ISO 9001:2015, ISO and 13485:2016 certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.

Unique design
The treadmill is designed as part of the Lode design line to fit perfectly in the environment it is used.

Compatible with ECG and pulmonary devices
The treadmill can be controlled by all external stress test ECG and ergospirometry devices through the RS232 or USB port. This is possible because besides the programmed Lode protocol, all known communication protocols are programmed as well.

Easy to operate
For Lode products this means:
- easy to connect
- easy to move around
- easy user interface

Various handrails available
Various handrails are optional available, making the treadmill suitable for your specific stress test setting.

For Life
Understanding Movement & Performance
Modern designed treadmill specifically designed for children. It can be controlled by external ECG and pulmonary devices. The emergency stop magnet contact on the standard front handrail provides additional safety for the user. The Valiant 2 Pediatric offers a smooth acceleration from 0 km/h and is continuously adjustable in a range of 0,1 – 12 km/h (0.06 – 7.5 mph). The running surface is 50 x 127 cm and the standard elevation is 0 - 25%. This treadmill is supplied without any display.

A USB A-B cable for service purposes as well as connecting to ECG and pulmonary testing devices will be standard delivered with the product.

To connect older ECG and pulmonary testing devices with RS232 or other connectors you need a special interface cable that can be ordered separately.

**Features**

- **Low noise**
  Material choices, refined components and accurate manufacturing techniques lead to low noise.

- **Versatile Interfacing**
  Various interface protocols guarantee perfect communication with all commonly known stress ECG and spirometry equipment.

- **Extreme low step-up height**
  To allow people to safely and comfortably step up the treadmill it is important to have a very low step-up height.

- **Small adjustment steps**
  The speed of the treadmill can be adjusted in the smallest steps of only 0.1 km/h!

- **Low cover plate**
  The motor compartment of the treadmill is designed in such a way that the cover is only marginally higher than the belt surface. This allows for low camera positions in case the treadmill is used for gait analysis purposes. Also a therapist has the best possible view on feet and lower extremities.

- **Robust design**
  The product is designed to withstand continuous heavy use by subjects in most weights and sizes.

- **Downhill walking as an option (-10%)**
  This treadmill can be executed with 10% negative elevation. This allows for downhill walking which is extremely useful for rehabilitation of certain injuries.

- **Optional integrated BPM and SpO2**
  The treadmill can be extended with a stable and reliable blood pressure module and SpO2 measurement.
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Valiant 2 Pediatric can a.o be extended with the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Image</th>
<th>Description</th>
<th>Partnumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB to Serial converter</td>
<td><img src="image1" alt="USB to Serial converter" /></td>
<td>Easy connection</td>
<td>226012</td>
</tr>
<tr>
<td>Universal treadmill Arm Support</td>
<td><img src="image2" alt="Universal treadmill Arm Support" /></td>
<td>Comfort for both test subject and test</td>
<td>945805</td>
</tr>
<tr>
<td>Emergency Stop Button</td>
<td><img src="image3" alt="Emergency Stop Button" /></td>
<td>Ultimate safety</td>
<td>945804</td>
</tr>
<tr>
<td>Bottle holder</td>
<td><img src="image4" alt="Bottle holder" /></td>
<td>Convenient beverage storage</td>
<td>401200</td>
</tr>
<tr>
<td>Extension for emergency lanyard</td>
<td><img src="image5" alt="Extension for emergency lanyard" /></td>
<td>Original Accessory</td>
<td>945931</td>
</tr>
<tr>
<td>Blood Pressure Measurement with ECG trigger for treadmills with ECG trigger</td>
<td><img src="image6" alt="Blood Pressure Measurement with ECG trigger for treadmills with ECG trigger" /></td>
<td></td>
<td>945824</td>
</tr>
<tr>
<td>Programmable Control Unit with 7&quot; touch screen for Treadmill Programmable</td>
<td><img src="image7" alt="Programmable Control Unit with 7&quot; touch screen for Treadmill Programmable" /></td>
<td></td>
<td>945815</td>
</tr>
<tr>
<td>Control Unit with 7&quot; touch screen for treadmill Multifunctionality</td>
<td><img src="image8" alt="Control Unit with 7&quot; touch screen for treadmill Multifunctionality" /></td>
<td></td>
<td>945814</td>
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<tr>
<td>SpO2 for control unit with touch panel (treadmill) Oxygen saturation</td>
<td><img src="image9" alt="SpO2 for control unit with touch panel (treadmill) Oxygen saturation" /></td>
<td></td>
<td>945822</td>
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<tr>
<td>Network Module</td>
<td><img src="image10" alt="Network Module" /></td>
<td>Easy networking with LEM and LCRM</td>
<td>945851</td>
</tr>
<tr>
<td>Reverse Walking for Valiant 2</td>
<td><img src="image11" alt="Reverse Walking for Valiant 2" /></td>
<td>Simple switching between forward and reverse walking</td>
<td>938842</td>
</tr>
<tr>
<td>Entrance plate</td>
<td><img src="image12" alt="Entrance plate" /></td>
<td>Even easier entrance to the treadmill</td>
<td>938809</td>
</tr>
<tr>
<td>Speed upgrade from 0.1-12 to 0.5-20 km/h for Valiant 2 Higher speeds</td>
<td><img src="image13" alt="Speed upgrade from 0.1-12 to 0.5-20 km/h for Valiant 2 Higher speeds" /></td>
<td></td>
<td>945841</td>
</tr>
<tr>
<td>Handrail, front singlesided - Pediatric - Valiant 2 Obstacle free observation of the test</td>
<td><img src="image14" alt="Handrail, front singlesided - Pediatric - Valiant 2 Obstacle free observation of the test" /></td>
<td></td>
<td>938816</td>
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<tr>
<td>Handrails, Side - Fixed (yellow), for Valiant 2 pediatric Extra support for the test subject</td>
<td><img src="image15" alt="Handrails, Side - Fixed (yellow), for Valiant 2 pediatric Extra support for the test subject" /></td>
<td></td>
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</tbody>
</table>
## Specifications

### Workload
- **Maximum speed**: 12 km/h (7.5 mph)
- **Minimum operational speed**: 0.1 km/h (0.1 mph)
- **Positive elevation**: 25%
- **Elevation adjustment steps**: 0.5%

### Accuracy
- **Speed accuracy**: 5%
- **Accuracy inclination**: 0.5%

### Comfort
- **Allowed user weight**: 225 kg (496 lbs)

### Connectivity
- **USB connector**: ✔
- **RS232 in connector**: ✔

### Dimensions
- **Screen resolution**: 800 x 400 pixels
- **Walking surface length**: 127 cm (50 inch)
- **Walking surface width**: 50 cm (19.7 inch)
- **Step up height**: 17 cm (6.7 inch)
- **Product length (cm)**: 192 cm (75.6 inch)
- **Product width (cm)**: 76 cm (29.9 inch)
- **Product height**: 130 cm (51.2 inch)

### Power requirements
- **Power cord length**: 250 cm (98.4 inch)
- **Power cord IEC 60320 C19 with CEE 7/7 plug**: ✔
- **Power cord NEMA**: ✗
- **Maximum rated power input**: 2500 VA
- **115 V AC 50/60 Hz (2 phases)**: ✔
- **230 V AC 50/60 Hz**: ✔
- **Maximum motor power**: 1.8 kW

### Standards & Safety
- **IEC 60601-1:2005**: ✔
- **ISO 13485:2016 compliant**: ✔
- **ISO 9001:2015 compliant**: ✔
- **Standard emergency lanyard**: ✔

### Certification
- **CE class Im according to MDD93/42/EEC**: ✔
- **CE class of product with optional SpO2**: Ila
- **CE class of product with optional BPM**: Ila
- **CB according to IECEE CB**: ✔

### Order info
- **Partnumber**: 938904

*Specifications are subject to change without notice.*