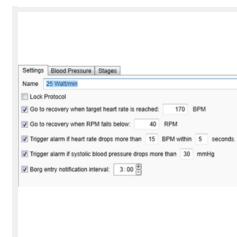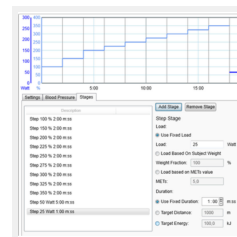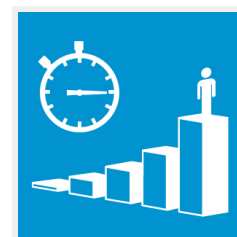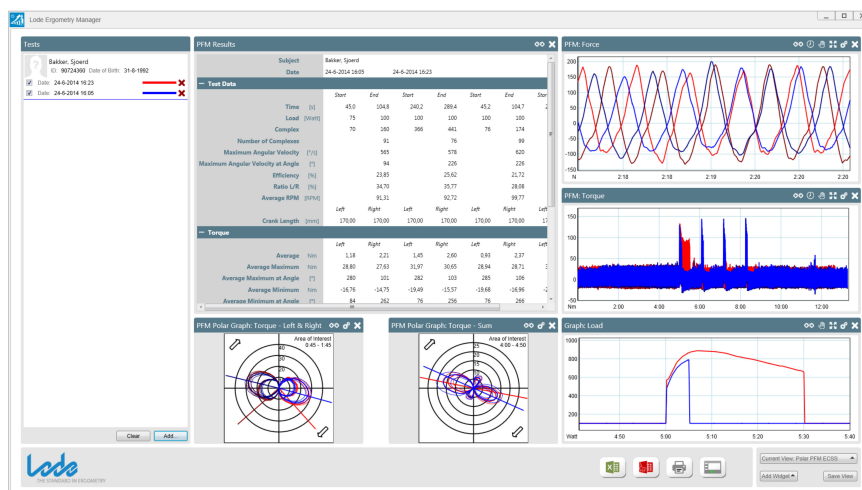# Lode Ergometry Manager - LEM 10

Versatile data and ergometer management

Highlights

Easy installation

- Simple step by step installer
- Automatic detection of exercise devices
- Easy setup of subjects

Multifunctional software for Lode ergometers

Software for all Lode ergometers, incl. options like BPM, HR, SpO2 etc. Worldwide commonly used bicycle and treadmill protocols are preprogrammed. Load, BPM and Borg notation triggers can be set remotely. Time trials can be implemented.

Complete Ergometry setting

The modular structure of the software combined with the accurate and reliable Lode ergometers offers a complete and modern ergometry setting.

Complete control

Easy set up of Subject data with photo
Create protocols quickly and efficiently
Overview of progress during test
Customized pdf reports

Additional functionality available in Modules

Functionality of the software can be enhanced using the modules, like Wingate sprint tests, Åstrand sub maximal tests and the possibility to program protocols with multiple decisions targets and formulas.

FOR LIFE | *UNDERSTANDING MOVEMENT & PERFORMANCE*

Lode Ergometry Manager - LEM 10
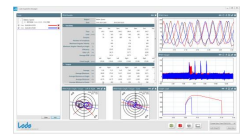
Versatile data and ergometer management

The Lode Ergometry Manager (LEM) is a software package used for controlling Lode ergometers and monitoring test subject ergometric parameters. The software enables the operator to program protocols, control ergometers, visualize, save and analyze ergometry data and print customized reports in PDF. Worldwide commonly used bicycle and treadmill protocols are standard preprogrammed. The program also provides a patient database and the possibility to connect to a SQL server or the Hospital Information System (HIS) with HL7. LEM 10 is also backwards compatible with previous versions, allowing you import and use your existing database easily. The software has been developed and tested according to the Lode principles of accuracy, durability and reliability. The Lode Ergometry Manager can be extended with various modules, each with its specific functions and visualizations. The Lode Ergometry Manager can be used for testing and training in several rehabilitation settings, sports medicine, physiotherapy and research environments.

For connection to our Lode ergometers, you will need to order a Network Connection Cable (#930930).

Before upgrading to LEM 10 also make sure that your ergometer has the latest firmware installed. Your distributor can assist you.

Features

Patient Database

An extensive patient database is available, which can work as a stand alone database or linked to a SQL server. HL7 connection to the Hospital Information System (HIS) is possible.

Isokinetic mode Excalibur and Brachumera

Isokinetic stages can be programmed for the Excalibur and Brachumera.

Visualisation of seating position Excalibur Sport

The seating position for the Excalibur Sport can be saved and compared with the actual or former positions

Sophisticated analysis menu

Possibility to zoom into the results and synchronize with other graphs. To have a better look with the use of the x/y coordinate functionality. Compare several test results from a Test subject in a clear overview, or compare different test subject performing the same exercise test. Define your own print report.

Customizable dashboard

The dashboard on the monitor can be customized and saved for several applications. Test views and Analysis can easily be adjusted, completed and saved.

User friendly protocol templates

Protocol templates for creating standard protocols for the bicycle and treadmill ergometers are available. An efficient manner to define the amount, duration and type of stages, in interval- step- or bodyweight controlled- protocols. Adjusting those protocols can be done at any time.

Advanced protocol editor

Exercise Protocols with target energy and target distance stages are created with the protocol editor. Special body weight depended stages, linear stages, ramping stages or Heart rate controlled protocols are easily programmed and customized. Default protocols are available.

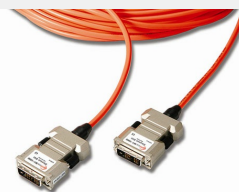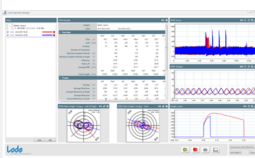### Backwards compatible with previous LEM versions
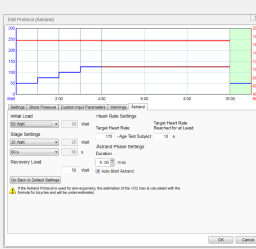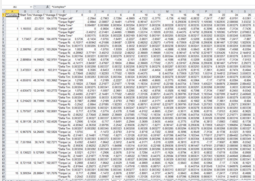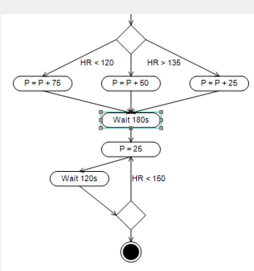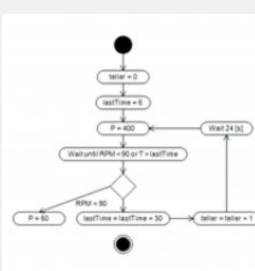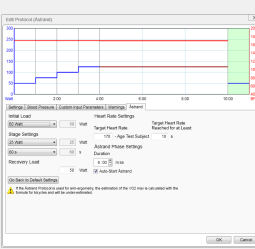
LEM 10 is compatible with LEM 6, 7, 8 and 9. This means that the database of these versions can be imported and used in LEM 10.

Lode Ergometry Manager - LEM 10

Versatile data and ergometer management

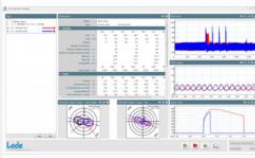Lode Ergometry Manager - LEM 10 can a.o be extended with the following options:

USB to Serial converter	**Optical Interface Cable**	**Upgrade to LEM 10 (from V9)**	**LEM 10 - Module Pedal Force Measurement**	**LEM 10 - Module Wingate Test plus**
Easy connection	Connection with a PC outside the MRI room	Even more versatile datamanagement	Make pedal force visual	Easy to operate Sprint test for explosive
Partnumber: 226012	Partnumber: 918825	Partnumber: 955800	Partnumber: 955910	Partnumber: 955915
LEM 10 - Module Åstrand	**LEM 10 - Module Export**	**LEM 10 - Module Architect**	**LEM 10 - Upgrade Module Architect to LEM 10 (from V9)**	**LEM 10 - Upgrade Module Åstrand to LEM 10 (from V9)**
Reproducible test	Export your data to MS Excel	Creating protocols with customer specific	Creating protocols with customer specific	Reproducable test
Partnumber: 955916	Partnumber: 955920	Partnumber: 955921	Partnumber: 955821	Partnumber: 955816
LEM 10 - Upgrade Module Export to LEM 10 (from V9)	**LEM 10 - Upgrade Module Pedal Force Measurement to LEM 10 (from V9)**	**LEM 10 - Upgrade Module Wingate Test plus to LEM 10 (from V9)**	**RS232 cable**	**Network module connection cable**
Export your data to MS Excel	Make pedal force visual	Easy to operate Sprint test for explosive	Easy connection	Easy connection
Partnumber: 955820	Partnumber: 955810	Partnumber: 955815	Partnumber: 930911	Partnumber: 930930

Lode Ergometry Manager - LEM 10
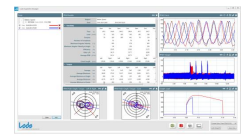
Versatile data and ergometer management

Specifications

User Interface

English user interface	✔
Chinese user interface	✔
Czech user interface	✔
Dutch user interface	✔
Finnish user interface	✔
French user interface	✔
German user interface	✔
Japanese user interface	✔
Norwegian user interface	✔
Polish user interface	✔
Russian user interface	✔
Spanish user interface	✔

Minimum System Requirements

Intel Core based processor	2.4 GHz
Monitor	1920 x 1080 pixels
Internal RAM	4000 MB
Minimum Free Hard Disk space	20 GB
CD Rom drive required	✔
Number of free USB ports	1
Mouse	✔
Keyboard	✔

Compatibility

HL7 compatible	✔
Compatible with MS SQL Server	✔
Database	SQLite
Database limit	140000 GB
Microsoft Windows 10	✔
Microsoft Windows 8	✔
Microsoft Windows 7	✔

Upgradeability

Enduser upgradeable from LEM 9	✔

Preprogrammed protocols

25 Watt / minute	✔
Balke	✔
Balke modified	✔
Bruce	✔
Bruce (Mod)	✔
Bruce (pediatric)	✔
Chung	✔
Chung (Low Level)	✔
Claudicationet	✔
Ellestad	✔
Naughton	✔
Body Weight Controlled	✔
Weight dependent protocol	✔
Isokinetic	✔
Target Distance	✔
Target Energy	✔

Order info

Partnumber:	955900

Specifications are subject to change without notice.