INTERFACE
Lode Ergometer – Korr Cardio Coach Monitor
V2.00

STEP I **Setting up the hardware**

1. For controlling the ergometer by the Korr System you will need the RS-232 cable (part no. 930911) to establish the communication. The lay-out of this cable is as follows:

RS232 cable 930911		
D-con 9 pin female		D-con 9 pin male
2 RxD	----------	2 TxD
3 TxD	----------	3 RxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the ergometer *(see picture 1).*
3. Connect the RS232 cable to the Korr System *(see picture 2).*

STEP II **Setting-up the ergometer**

4. Switch on the ergometer

   The Corival ergometer is default shipped with the LODE RS232 communication protocol. It should be set to the LODE RS232 protocol for communication with the Korr system when it is not:
   You can change the RS232 protocol by following the procedure below:
   - Switch on the ergometer and press enter.
   - You will be in the "MAIN MENU"
   - Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
   - Select, by using the up/down keys, the menu "SETTINGS" and press enter
   - Select, by using the up/down keys, the menu "RS232 PROTOCOL" and press enter
   - Select, by using the up/down keys, the "LODE RS232" protocol and press enter.
   - Save the selected RS232 protocol or restore the default RS232 protocol, which is also the LODE PROTOCOL.
   - Switch off the ergometer.

5. For controlling the ergometer by the Korr System, the ergometer should be set in "TERMINAL MODE" mode. The " TERMINAL MODE " mode should be selected as follows. After switching the ergometer on, press enter, select " TERMINAL MODE " and press enter again.

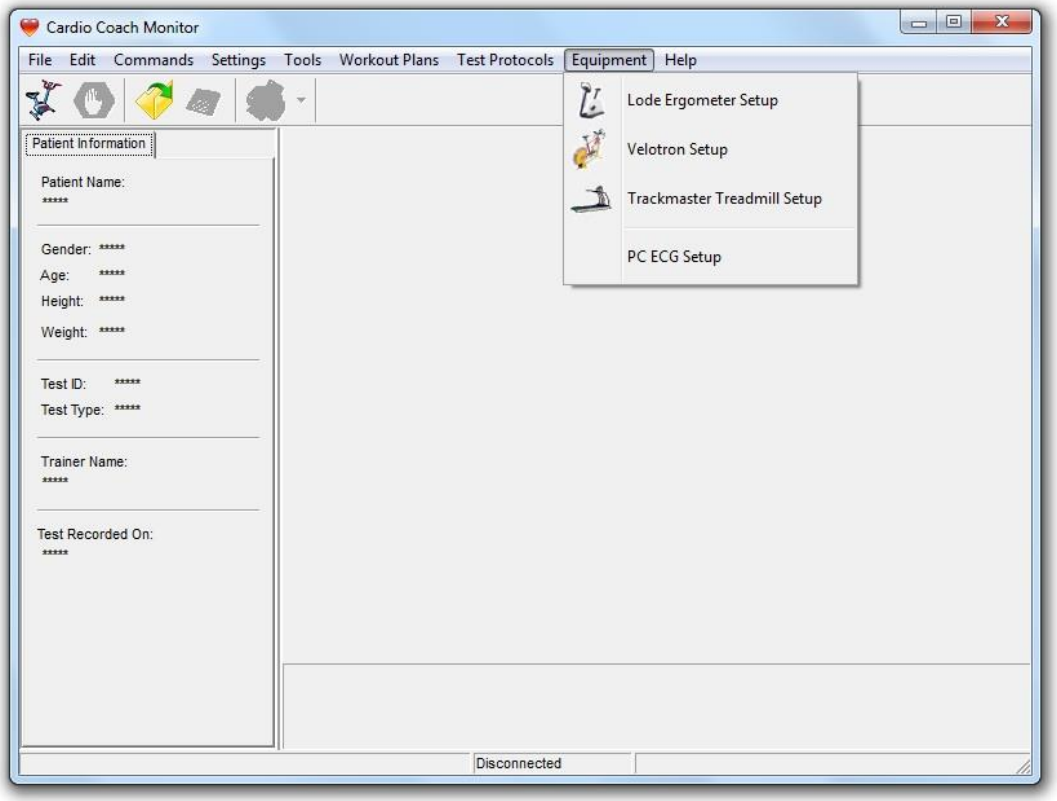
   NOTE: You can also let the ergometer start-up in " TERMINAL MODE " mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in "TERMINAL MODE" mode proceed as follows:

- Switch on the ergometer and press enter
- You will be in the "MAIN MENU"
- Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
- Select, by using the up/down keys, the menu "SETTINGS" and press enter
- Press enter to confirm the menu "DEFAULTSTARTMENU"
- Select "TERMINAL MODE " and press enter
- You will be asked to save the changes confirm with "YES"
- If you switch off the ergometer, it will start-up in the "TERMINAL MODE" mode, every time when the ergometer is switched on again

6. The Lode ergometer is now ready for external control.

STEP III Setting up the EXTERNAL DEVICE

7. For controlling the Lode ergometer by the software, you will have to make a "device configuration" in the Korr System. Take the following steps:
8. Go to Equipment.
9. Select the Lode Ergometer setup



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10. The following popup will appear

11. Press Check Device to establish the connection
12. The version number and serial number of your ergometer should appear in the Info box.

The system is ready for use.

To run a test using the Lode Ergometer, you would begin a test described in Chapter 2, (select "Commands | New Test" from the main menu). This brings up the "Start New Test" dialog. Enter the customer information, (name, height, weight …) then on the "Test Type" select a protocol that uses the Lode Ergometer. Next click OK to start the VO_2 Test.

With a Lode Ergometer protocol selected the CardioCoach Monitor will automatically update the resistance on the ergometer at each step of the protocol. Also, the CardioCoach Monitor reads the speed and wattage of the ergometer during the test and plots it for you as the test runs.

NOTE: Remember the Lode Ergometer requires that you maintain at least 30 rpm in speed or the ergometer will not apply resistance.

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Remarks:

- The installation procedures of the Lode ergometers Corival, Angio and Excalibur Sport are all the same. The connection of the cables may be on slightly different places.

For questions and comments, you can contact the Lode service department by e-mail at service@lode.nl or by telephone at +31 50 5712811.

Picture 1: Connection to the Ergometer

Picture 2: Connection to the Korr system

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