INTERFACE

Lode Ergometer – ZAN 600 USB system
V2.00

STEP I Setting up the hardware

1. For controlling the ergometer by the **ZAN 600 USB system** you need an **RS232** cable cable (part no. **930911**), The lay-out of the cable is as follows:

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

2. Connect the RS232 cable to the ergometer *(see picture 1).*
3. Connect the RS232 cable to the **ZAN 600 USB 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 **Ergoline P10 Protocol**
   You can change the RS232 by following the procedure below:
   - Switch on the ergometer and press enter.
   - You will be in the "MAINMENU"
   - 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 "**ERGOLINE P10**" 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 **ZAN 600 USB system** the ergometer should be set in "**TERMINAL MODE**" mode. The " **TERMINAL MODE** " should be selected as follows. After switching the ergometer on press enter, and select " **TERMINAL MODE** " and press enter again

   NOTE: You can also let the ergometer startup 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 "MAINMENU"
- 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” and press enter

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

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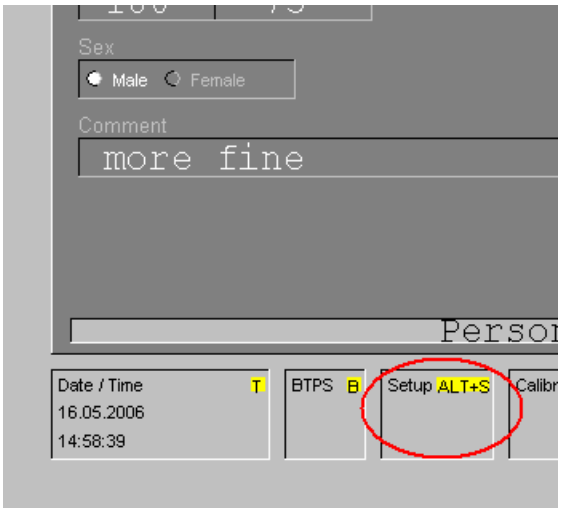
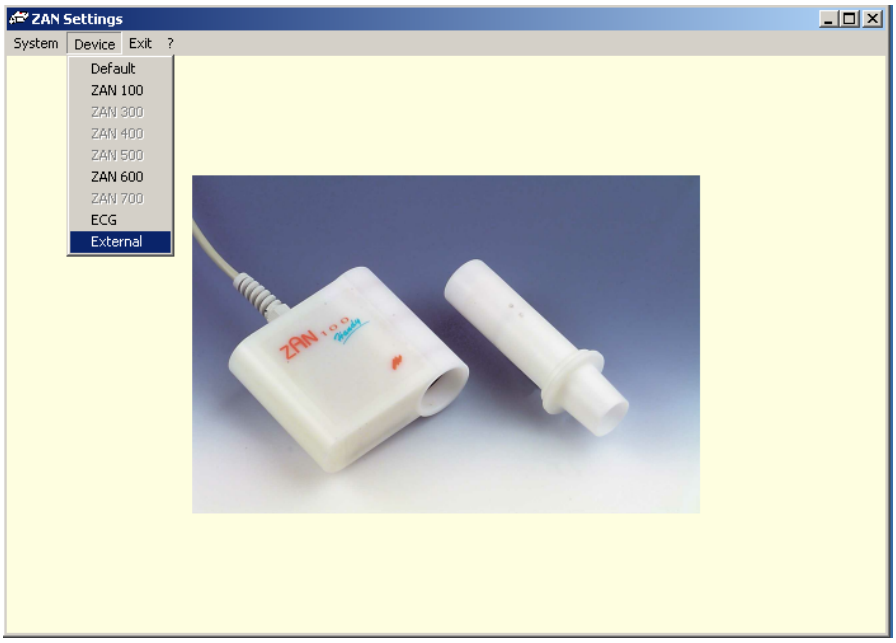
STEP III	**Setting up the ZAN 600 USB system**



Select Setup or press ALT + S



Press device and select “External”

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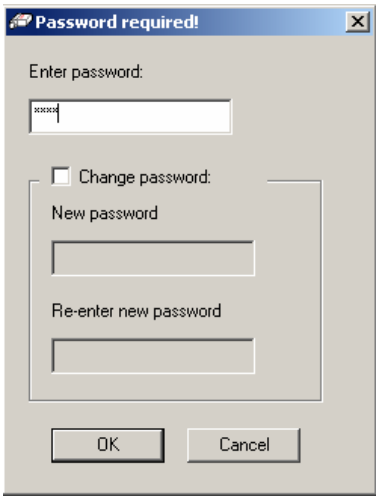
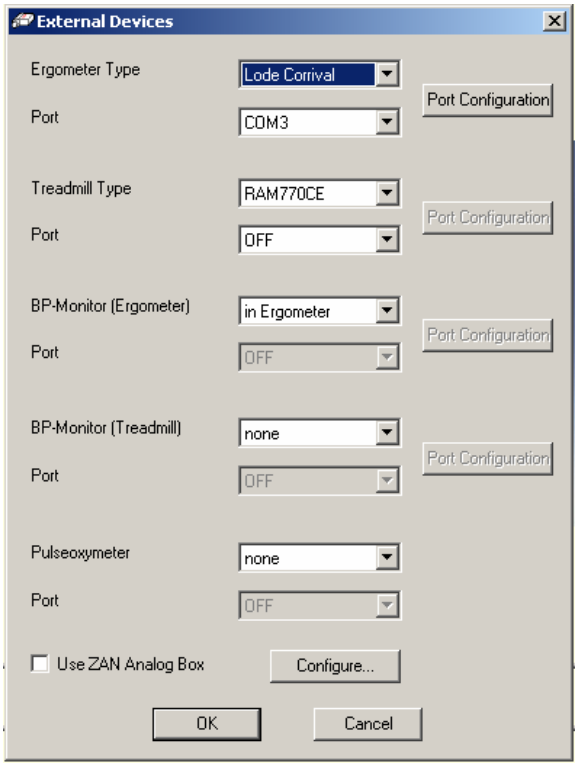


Enter the password (Lufu)



Select the Lode Corival and when you have an ergometer with an internal bloodpressure select for BP-monitor “in ergometer”

lode
the standard in Ergometry

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Restart the ergometer and ECG device and then your system is ready to be used.

You are now able to perform a stress test.

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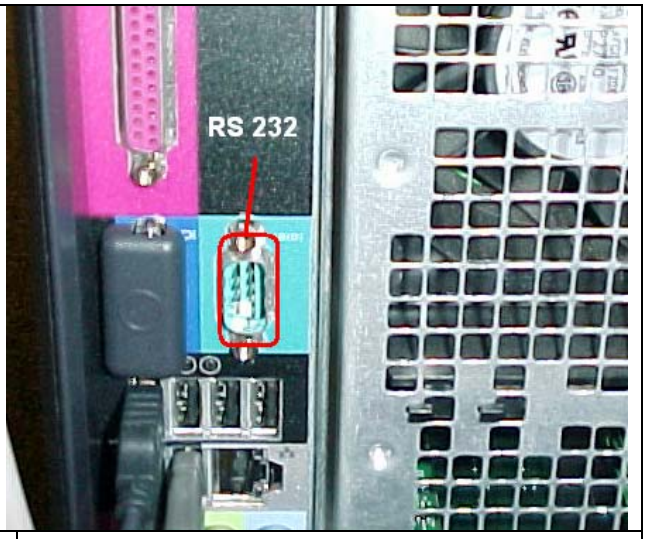
Pictures

Picture 1: Connection to the Ergometer



Picture 2: Connection to the Computer

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Restart the ergometer and ECG device and then your system is ready to be used.

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 571281

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Lode B.V.
Zernikepark 16
9747 AN Groningen
The Netherlands

Tel.: 31(0)50 5712811
Fax: 31(0)50 5716746

ISO 9001:2000 and ISO 13485:2003 certified
e-mail: ask@lode.nl
http://www.lode.nl