INTERFACE
Lode Ergometer – Nihon Kohden CardioFax 1350K
V1.00

STEP I	Setting up the hardware

Read ***always*** first the user manual of the ergometer and ECG monitor.

1. Switch off the ergometer and the system.
2. You will need the USB to RS-232 cable (Nihon Kohden part no. YZ-041H0) to establish communication between the Lode ergometer and your system.
3. Connect the USB to RS-232 cable to the ergometer at the RS232 in port.
4. Connect the USB to RS-232 cable to the System. Note that the connector marked for ECG system side is put here.

STEP II	Setting up the ergometer

5. Switch on the ergometer.
6. Select the Ergoline P10 protocol on the ergometer:
    a. Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
    b. Select, by using the up/down keys, the menu "SETTINGS" and press enter
    c. Select, by using the up/down keys, the menu "RS232 PROTOCOL" and press enter
    d. Select, by using the up/down keys, the "ERGOLINE P10" and press enter.
    e. Save the selected RS232 protocol.

7. For controlling the ergometer by the Cardiofax 1350 K the ergometer should be set in "TERMINAL" mode. The "TERMINAL" mode should be selected as follows. After switching the ergometer on press enter, and select "TERMINAL" and press enter again

    NOTE: You can also let the ergometer start-up in "TERMINAL" 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 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”
    - Select “TERMINAL “ 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 every time when the ergometer is switched on again.

8. The Lode ergometer is now ready for external control

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STEP III Setting up the Cardiofax 1350 K

9. Switch on the NK Cardiofax 1350 K with the on key at the frontside
10. Go to the Main Menu and select “4 Exercise”
11. Now you will be asked to fill out the patient data
12. Select the Ergometer exercise protocol
13. Enter %THR and Physical on the screen
14. Start the exercise test

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 5712811.

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