

Coach 6 Lite Installation Guide



CENTRE FOR MICROCOMPUTER APPLICATIONS

<http://www.cma-science.nl>

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1. System requirements for Coach 6 Lite

For Coach 6 Lite Installation	For Coach 6 Lite
<ul style="list-style-type: none">• > 180 MB on System Drive• Under Win XP/Win Vista/Win 7/Win 8 administrator rights needed	<p>Coach 6 Lite can be installed on a PC with at least the following requirements:</p> <ul style="list-style-type: none">• A processor which can be compared with Pentium 4, 2.4 GHz;• 90 MB of free disk space;• 512 MB RAM (1 G recommended);• Recommended screen resolution 1024 x 768 (at least 800x600), 16 bit colors;• Windows operating system: Win XP/ Win Vista/ Win 7/ Win 8.• Internet Explorer version 6.0 of higher.

2. Coach 6 Lite installation

Coach 6 Lite can be installed on a standalone computer.

Warning:

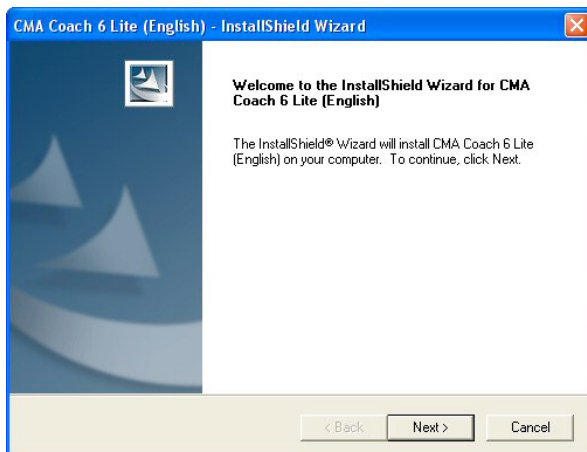
During installation of Coach 6 Lite all CMA hardware has to be disconnected from your computer. If accidentally during the Coach installation the CoachLab II⁺ interface or €Motion are connected to your PC read chapter '3. Installation of CMA hardware drivers'.

2.1. Standalone installation of Coach 6 Lite

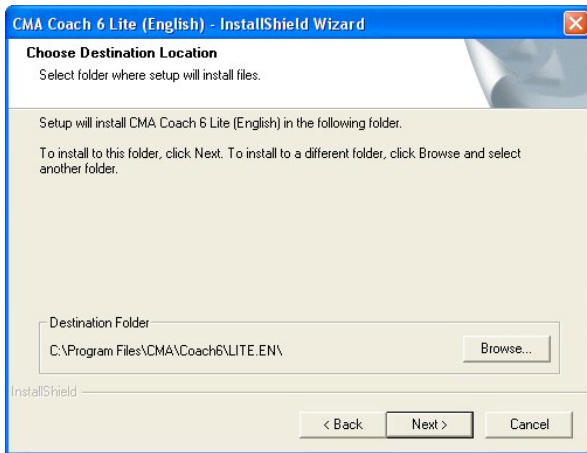
- Close down any programs that may be running on your computer.
- Click **Coach 6 Lite Setup.exe**.

Or:

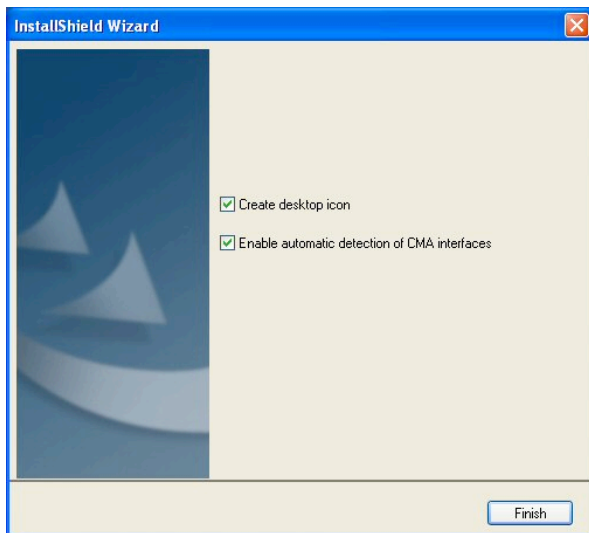
- Download the latest Coach 6 Lite installation file via the CMA web site (www.cma-science.nl/english/downloads/installCoach6.html).
- Double-click the downloaded file, click **OK** and **Setup**.



- The Coach 6 Lite installation program will start.
- Click **Next**.



- Select a folder where the Coach 6 Lite files will be installed. Accept the given default folder or click **Browse...** to select another folder.
- Click **Next**.



- Select whether you want to create desktop icon.
- Select whether you want to enable automatic detection of CMA interfaces.
- Click **Finish** to complete the installation.

The Coach 6 Lite standalone installation is completed now and you can connect your interface to the computer. Read chapter '3. Installation of CMA hardware drivers' for specific driver installation information.


Warning for Windows XP users!

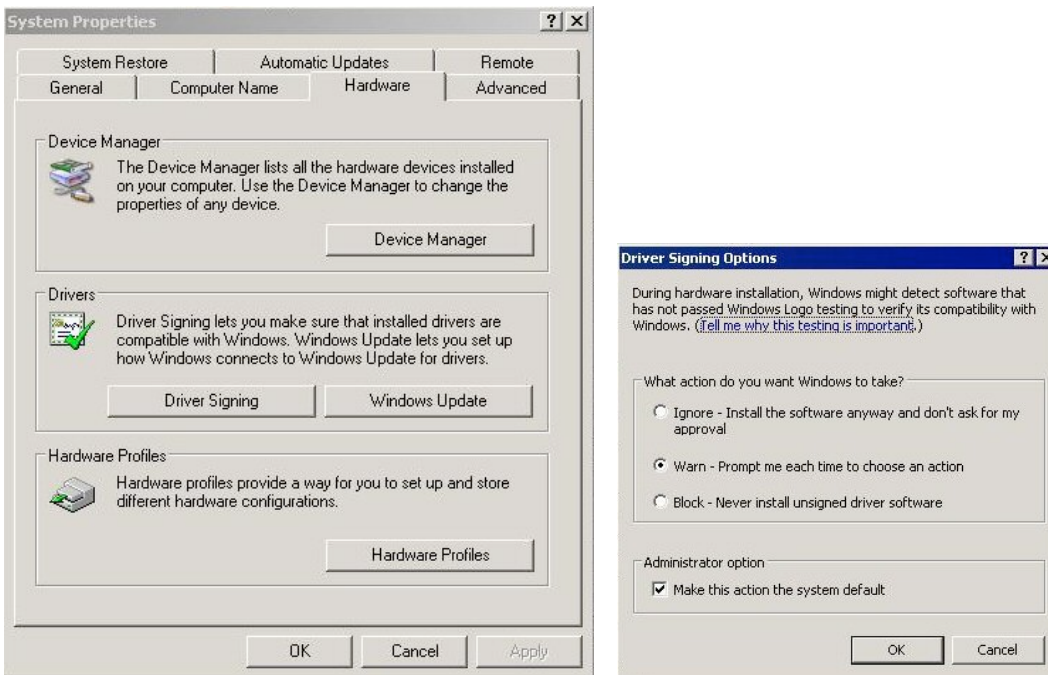
It is possible that during the installation Windows XP gives warnings (see below) that the software you are installing has not passed Windows Logo testing.



- To successfully install Coach 6, you *must* click **Continue Anyway** in this dialog.

If you want this warning not to appear during the Coach 6 Lite installation you can turn it off in the following way:

- From the Windows Start Menu choose **Settings > Control Panel**.
- In **Control Panel** select **System**.
- Select the **Hardware** tab and then press the **Driver signing** button.
- Select **Ignore** and  click **OK**.



Warning for Windows Vista, Window 7 and Windows 8 users!

During installation under Windows Vista and Window 7 or 8 a question about trusting CMA drivers can appear. You have to accept that you trust the CMA drivers. To be able to install the Windows-drivers (low-level drivers) for CoachLab II+¹ and €Motion without such warning you have to install first the CMA certificate. You can download the installation file at CMA website at: www.cma-science.nl/english, under Support > Software > Coach 6.

2.2. Coach 6 Lite shortcuts

After installation the group **CMA Coach 6 Lite** is created in the Windows Start menu and a Coach 6 Lite shortcut is placed on your desktop. The CMA Coach 6 Lite group has the following shortcuts:

- ***CMA Coach 6 Lite*** - this shortcut starts Coach 6 Lite.
- ***Utilities***

Firmware Update

This shortcut starts the program to update internal software (firmware) of CMA interfaces.

Mount VinciLab

This shortcut starts the program, which mounts VinciLab as network location and creates the access to the VinciLab's user folder 'My Files' in Windows Explorer under Network Location.

ULAB View


This shortcut starts the program, which displays an image of ULAB's screen on the computer's screen.


Unmount VinciLab

This shortcut starts the program, which remove the access to the VinciLab's user folder 'My Files' in Windows Explorer.

For MoLab data-logger there are two additional programs available, ***MoLab View*** and ***MoLab Update***, which are not part of the Coach 6 Lite installation. These programs can be downloaded at www.cma-science.nl/english/downloads/index.html under Utilities Installations.

2.3. CMA Device Checker

During Coach 6 Lite installation also the CMA Device Checker can be installed² (default in C:\Program Files\CMA\Coach6\Common folder). When installed this program constantly checks if one of the CMA interfaces is connected to the USB port of the computer. The Coach 6 icon  is shown in the taskbar while this program is running. After a CMA interface is detected Coach 6 Lite will start and the project, for the plugged-in interface, will open.

Automatic detection of the CMA interfaces can be switched off by right clicking the Coach 6 icon  in the taskbar and selecting **Stop**.

To switch off the automatic startup of the CMA Device Checker open Command Prompt, change folder to C:\Program Files\CMA\Coach6\Common, type **DeviceChecker -remove** and press Enter. To activate the CMA Device Checker again open Command Prompt, change folder to

¹ This is valid for CoachLab II+ interfaces purchased before February 2011. CoachLab II+ interfaces purchased from February 2011 make use of the standard Windows HID (Human Interface Device) USB driver.

² During Coach 6 Lite installation the option '*Enable automatic detection of CMA interfaces*' has to be checked.

C:\Program Files\CMA\Coach6\Common, type **DeviceChecker –install** and click **OK**. For both commands administrator's rights are needed.

2.4. Repairing Coach 6 Lite installation

To repair the installation of Coach 6, proceed as follows:

- Choose **Settings > Control Panel** in the Windows Start Menu.
- Select **Add/Remove** programs.
- Select **CMA Coach 6 Lite (English)** from the list and click **Repair**.
- The Repair process of the Coach installer will start. Follow instructions on the screen.

2.5. Uninstalling Coach 6 Lite

To remove Coach 6 Lite from your system, proceed as follows:

- Choose **Settings > Control Panel** from the Windows Start Menu.
- Select **Add/Remove** programs.
- Select **CMA Coach 6 Lite (English)** from the list and click **Add/Remove**.
- The uninstalling process will start. Follow instructions on the screen.

3. Installation of CMA hardware drivers

Warning:

*During installation of Coach 6 Lite all CMA hardware should be **disconnected** from your computer! To avoid problems always first install Coach 6 Lite and then connect your interface to the computer!*

Many of CMA interfaces are equipped with HID³ USB for which a standard driver is available in Windows. The driver installation is automatically executed the first time such an interface is connected to the computer and no administrator rights are needed to install these drivers under all Windows versions.

In some cases special driver installations are needed; these cases are described below.

3.1. Installation of CoachLab II⁺ driver

There are two models of the CoachLab II⁺ interface available on the market, older models sold before February 2011 and newer models sold after February 2011. Both models look the same from outside.

The newer model is equipped with HID⁹ USB for which a standard driver is available in Windows.⁴ There are no administrator rights needed to install the driver under all Windows versions. This interface is supported in Coach version 6.32 and higher.

For the older model of CoachLab II⁺ a low-level driver has to be installed. This driver is copied to the Window system during the Coach 6 Lite installation. After Coach 6 Lite installation is completed and CoachLab II⁺ is connected to the computer for the first time (be sure that Coach 6 Lite does not run at this moment) the driver installation takes place via the Found New Hardware Wizard. This low-level driver is renewed in Coach version 6.42. In this new driver the problem with measurements with higher sampling frequency (above 5000 Hz) is solved. We recommend

³ Human Interface Device

⁴ This version of CoachLab II+ is recognized as 'CoachLab II++' in Windows.

using this newest driver. This driver is signed, which means that during the driver installation no administrator rights are needed and during the installation under Windows Vista and Windows 7 or 8 no any Windows messages appear (provided that the CMA certificate is installed, see page 6). This driver is not WHQL certified because it is not longer possible. This means that for installation under Windows XP administrator rights are needed. Notice that after the driver has been installed the computer has to be restarted.

Warning:

If the CoachLab II⁺ driver for an older model of CoachLab II⁺ (sold before February 2011) was already installed on your computer then Windows remains to use this driver even if the Coach 6 or Coach 6 Lite program was uninstalled. To force Windows to use the new driver it has to be reinstalled manually and for this administrator rights are needed. To reinstall the driver:

- Connect your old model of CoachLab II⁺ to your computer.
 - Go to **Control Panel** and start Windows **Device Manager**.
 - Look under the section Ports (COM & LPT) for CoachLab II⁺ device and right click it.
 - Select **Update Driver Software**.
 - Select **Browse my computer for driver software**.
 - Select **Let me pick-up from a list of device drivers on my computer**.
 - Select the newest driver from the list and install it.
-

How can I recognize which model of CoachLab II⁺ I have?

When a new CoachLab II⁺ model (sold after February 2011) is connected to a computer then it is recognized and displayed as HID Device in the section Human Interface Devices of Windows Device Manager. When an old CoachLab II⁺ model (sold before February 2011) is connected to a computer then it is recognized and displayed in the section Ports (COM & LPT). To check which model you have:

- Make sure that the CoachLab II⁺ driver is installed on your computer.
- Go to **Control Panel** and start Windows **Device Manager**.
- Connect your CoachLab II⁺ to your computer.
- Check in which section, Human Interface Devices Look or Ports (COM & LPT), CoachLab II⁺ is displayed. If in the section Human Interface Devices then you have a new model of CoachLab II⁺, if in the section Ports (COM & LPT) then you have an old model of CoachLab II⁺.

3.2. Installation of the €Motion driver

For €Motion also a special driver is used. Similar to the CoachLab II⁺ driver is copied to the Window system during the Coach 6 Lite installation. After Coach 6 Lite installation is completed and €Motion is connected to the computer for the first time (be sure that Coach 6 Lite does not run at this moment) the driver installation takes place via the Found New Hardware Wizard.

The €Motion driver is signed but not WHQL certified. It means that for the installation of €Motion driver are under Windows XP administrator rights are needed. This also means that it is possible that during the installation under Windows XP warnings appear.

3.3. Installation of the MoLab driver

The MoLab data-logger is supported starting from Coach 6.4 Lite.

When MoLab is connected to a Windows 7 or 8 computer the first time then it is detected and the computer automatically starts installing the device driver software. After this

installation is successfully finished (device name Anchor USB EZ-Link Cable installed) Windows automatically downloads and starts installation of Windows Mobile Device Center needed for communication between MoLab and the computer.

Prior to connecting MoLab to a Windows XP computer, the Windows XP driver for MoLab has to be installed.

- Download the XP driver for MoLab from the CMA web site www.cma-science.nl/english, the driver can be found under Support > Interfaces > MoLab data-logger.
- Unzip the downloaded file to a temporary folder on your hard disk.
- Right click the file wceusbsh.inf and select 'Install'. Follow instructions given in the Find New Hardware Wizard.⁵

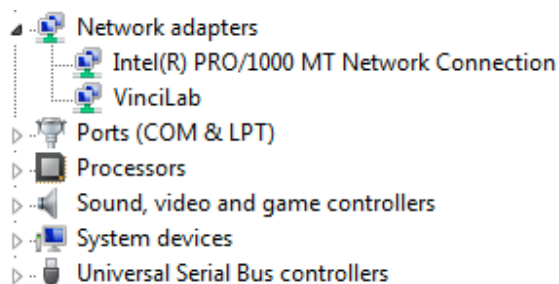
Notice that to make communication between MoLab and the Windows XP computer possible you also need to install manually Windows ActiveSync program⁶.

3.4. Installation of the VinciLab driver

Before you start to use VinciLab with the computer via the USB cable we strongly recommend to first install the program Coach 6 Lite (version 6.5 or newer) on your PC. During the Coach installation the USB VinciLab driver setup files are copied to your computer.

In most cases the driver installation is automatically executed the first time VinciLab is connected to the USB port of the computer. After successful installation VinciLab is shown under Network adapters, in Windows Device Manager.

If the driver is not automatically installed or not successfully installed then the driver has to be installed manually in Windows Device



Manager by specifying the location of the USB VinciLab driver setup files.

To install USB driver manually

- Go to **Control Panel** and start Windows **Device Manager**.
- Right click not correctly installed VinciLab (marked by yellow exclamation sign) and select **Update Driver Software**.
- Select **Browse my computer for driver software**.
- Browse to Program Files (x86)\CMA\Coach6\Common\EthernetCableDriver location.
- Click **Next**. The driver software will be installed.
- After successful installation the message **Device driver software installed successfully** will appear.

⁵ Detailed description can be found at:

www.cma-science.nl/english/downloads/hardware/molab/Computer%20with%20MoLab.pdf

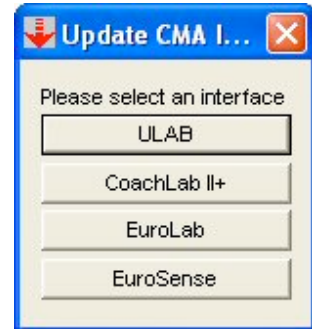
⁶ www.microsoft.com/download/en/details.aspx?id=15

4. Updating an interface internal software

4.1. Updating firmware of ULAB, CoachLab II⁺, €Lab, and €Sense interfaces

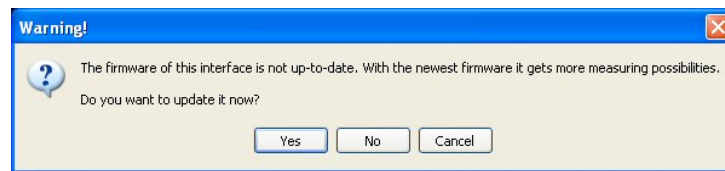
To make use of new features available in Coach version 6.3 and higher it is necessary to update firmware of CMA interfaces ULAB, CoachLab II⁺, €Lab, and €Sense.

The Coach 6 Lite program recognizes automatically when a connected to the computer interface needs to be updated and offers direct update. Firmware update can also be performed via the utility program **Firmware Update**.



To update firmware when working with Coach 6 Lite

- When Coach, version 6.3 or higher, recognizes that a connected interface (ULAB, CoachLab II⁺, €Lab, or €Sense) needs to be updated then the following message is displayed.



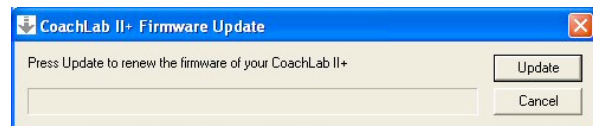
- Click **Yes** to start the **Firmware Update** program for the connected interface.
- Next steps are similar to updating with the Firmware Update and described below.

To update firmware with Update Firmware program

- Start the **Firmware Update** program via Start > All Programs > CMA Coach 6 Lite > Utilities > Firmware Update.
- Select the interface for updating by pressing the button with the desired interface. Notice that the CoachLab II⁺ and ULAB interfaces should be powered during this process.

For CoachLab II⁺, €Lab and €Sense


- Press **Update** to start the update process.
- The program selects the correct version of the firmware file. In case more firmware files are listed select the latest firmware (the highest number) (file name#-*.hx2)⁷. Click **OK**.
- The update process starts. At the end of this process the connected interface will reset itself.
- When the firmware is updated successfully then the message appears: *The firmware has been update to version #.*
- Click **OK** to accept.

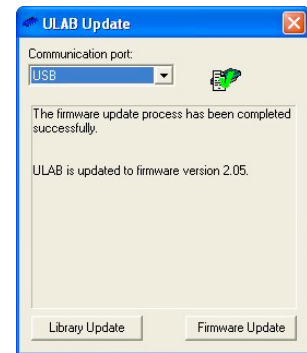


⁷ name – the short interface name, # - the firmware version number; * - the firmware language

Note: In rare cases the reset of €Lab/€Sense will not work properly, the interface LED remains on and there is no communication between the computer and the interface. In that case you have to restart computer to continue working with €Lab/€Sense.

For ULAB

- Under **Communication port** select the port to which the data-logger is connected (USB or COM port).
- Press the **Firmware Update** button.
- From the list of available firmware files select the downloaded firmware file ULAB#-* .hx2⁸.
- The following message appears *Updating the firmware clears all data in ULAB's memory. Update the ULAB firmware using ULAB.hx2?*
- Pressing **Yes** starts the update process. At the end of this process ULAB will reset itself.
- When the firmware is updated successfully then the message appears: *The firmware update process has been completed successfully. ULAB is updated to firmware version #.*
- Click  to close the window.



4.2. Updating MoLab data-logger

To update Coach 6 Lite CE on MoLab **MoLab Update** program is used. The latest information and MoLab updates are available at:
www.cma-science.nl/english/downloads/utilities.html#Update.

4.3. Updating VinciLab data-logger

The operating systems and all applications of VinciLab can be updated via the VinciLab Update server available via a Wi-Fi connection. The detailed update procedure is included in the VinciLab package and available at CMA website:
www.cma-science.nl/english/support/hardware/vincilab_update.pdf

⁸ # - the firmware version number; * - the firmware language