

## EA Tools CD for interfaces

### Installation guide

In case the hardware driver (only with USB) is already installed, proceed to [2. LabView Installation](#), else read the next chapter carefully:

#### 1. Installation of the hardware (only USB port of IF-Ux, IF-Ex, IF-PB1)

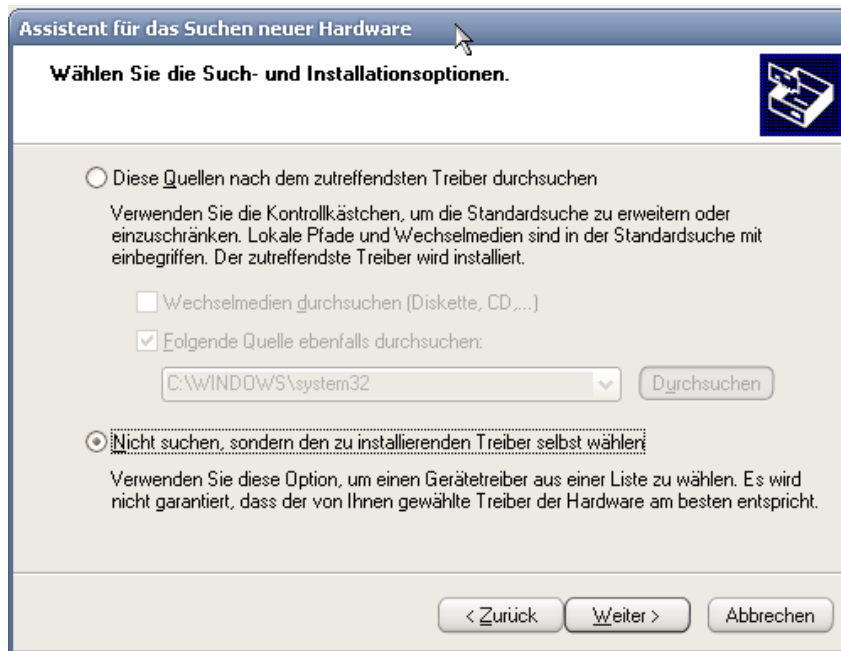
##### ***Urgent! Read this!***

*If you connect the USB interface card port for the first time to your PC, the PC will normally request a driver. If not, a suitable driver could already be installed. This driver might work for this card, but it is advised you to uninstall it before installing the new one. After this, proceed to point a)*

a) After plugging the hardware Windows should request a driver. Do not chose „Install software automatically“. Chose as shown here:



b) The next window is a search window. Choose the second option to point Windows to the correct driver:

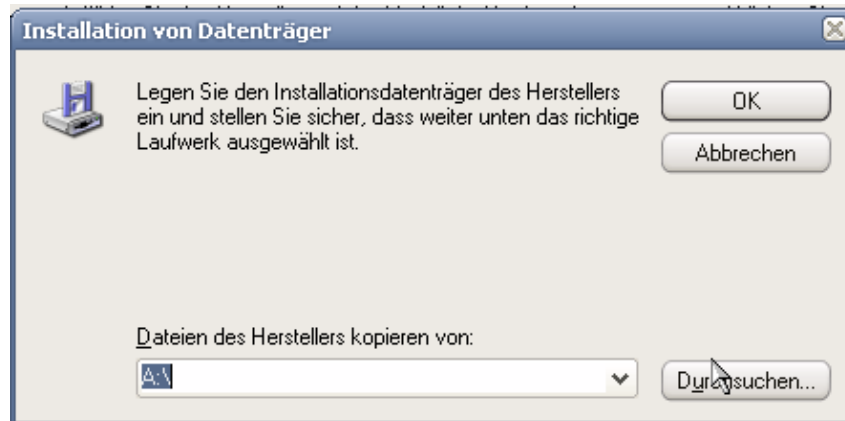


c) In the following window you got to click the button beneath the list box.



and choose the path to the driver on the CD, starting from `software\usb_driver\`.

After pointing this requester to the driver folder of your choice click OK:



d) Back to the window of item c), click Next.

e) You might want to control the correct installation.

**Windows XP/2003/Vista/Windows 7 users:** there should be a device called „USB Serial Converter“ in the „USB Controllers“ section and a device „USB Serial Port“ in „Terminals (COM and LPT)“ section.

f) Now you can install the LabView VIs (chapter 2) and then access the interface by low level (USB) or as serial port (COM). Low-level access is described in a separate instruction manual in folder `manualse\other\ftdi\` on the CD.

**Note:**

The driver installs two devices, an USB device („USB Serial Converter“) and a VCP (Virtual COM Port), which is listed as „USB Serial Port“ in the Windows device manager. This port has a number, which is „remembered“ by Windows for the related USB port, so that any further USB interface port will generate a new VCP. The VCP can be activated or deactivated via the driver properties dialogue of „USB Serial Converter“. Find option „Load VCP“ and after the change is submitted, unplug the USB cable and put it back again in order to the change to become effective.

Implementation of accessing the port in custom application is simplified with the VCP, because USB low-level access is not required anymore. The VCP is accessed and configured like a true RS232 port. In LabView, the typical VISA VIs can be used to access the VCP.

## 2. LabView VI Installation

In order to install the included Labview VIs and use them in you custom applications, please perform following steps:

- a) Exit LabView, in case it is started.
- b) Open an Explorer window and change to folder  
`c:\programs\national instruments<labview version folder>\instr.lib\`  
(this is the folder, where the custom hardware VIs are stored in. They can be accessed from the LabView context menu).
- c) In path `\software\labview_vi_for_interface_cards\` of the CD select the proper ZIP file (depending on the LabView version you're using). Unpack it to the folder you changed to in item b). **Do not create a new folder!**  
After this you should have a new folder:  
`c:\programs\national instruments<labview version folder>\instr.lib\IF-XX\`
- d) Start LabView.

Now you should be able to find the VIs in the context menu of LabView, for example in **Instrument I/O -> Instrument drivers -> IF-XX**.

Experiencing errors or problems? Contact us per e-mail at [ea1974@elektroautomatik.de](mailto:ea1974@elektroautomatik.de)

### Important!!!

If you already installed a previous version of the VIs and are just updating them, please check your application(s) where you used our VIs for any wiring problems. This is only for prevention. We won't change any allocation of inputs or outputs of the VIs in future versions, unless absolutely necessary.

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