Firmware Update Manual

ZEISS CP.3 and Supreme Prime Lenses

<div style="border: 2px solid red;">

! CAUTION !

For the firmware update a special connection kit is needed consisting of the lens connector, a DC power supply, the RS232 plug and a USB /RS232 converter. This kit is available at the Carl Zeiss Service stations and can be ordered from the ZEISS Customer Care Center.

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Introduction

This document describes how to update firmware on the Zeiss CP.3 XD and Supreme Prime lenses.If your CP.3 XD lens or Supreme Prime lens has an older firmware revision than the most recent one, it is recommended to install this new firmware.

Most recent firmware can be downloaded from the Zeiss homepage www.zeiss.com/camera-lenses/int/service/download-center.html. The necessary installation file and a brief description of the new firmware features are stored in a .zip file.
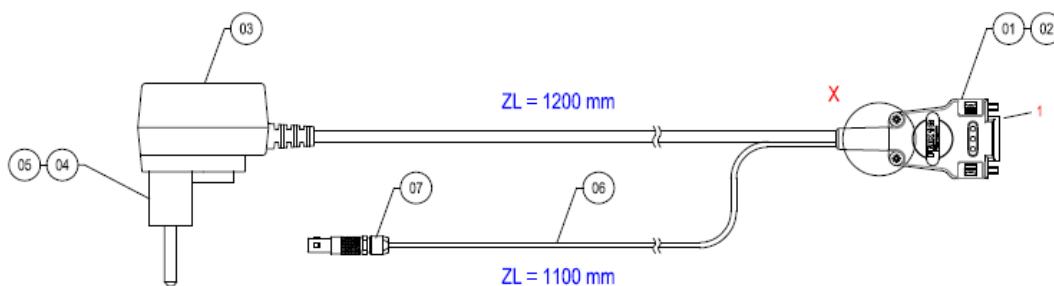
For the firmware update a special connection kit is needed consisting of the lens connector, a DC power supply, the RS232 plug and a USB /RS232 converter. This kit is available at the Carl Zeiss Service stations and can be ordered from the Zeiss Customer Care Center.

Explanation of Symbols

INFO	The information symbol indicates additional information, which is useful for the context.
RESULT	The result symbol indicates information about the obtained result of a step.

Equipment needed

- Computer

    o Installed OS: Windows

    o At least 1 free USB port

- Connection Kit eXtended Data available at ZEISS, see below drawing. The kit consists of:

    o Digitus® USB – RS232 Converter including driver CD

    o Cable with 9 pin D-Sub female plug and 4pin male plug for lens XD connector

    o International power plug adapter
    The adapter can operate with AC power from 100VAC to 240VAC, adapters for US or Euro AC main sockets are enclosed in the cable set.

| INFO | The drivers for the Digitus® USB – RS232 converter must be installed on the computer. For additional information see troubleshooting section. |

Setting the lens to the download mode

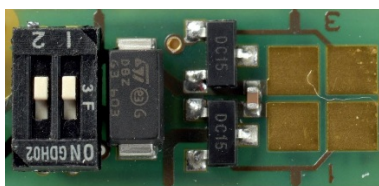Unscrew the plug housing of the external XD connector, using a T4 type screw driver.

INFO	*Take care on the washers below the four screws!* *Don't forget to assemble.*

After removing the XD plug housing the two mode switches are accessible.

Mode switches

Set both mode switches to the OFF position. This is the mode for firmeware download.
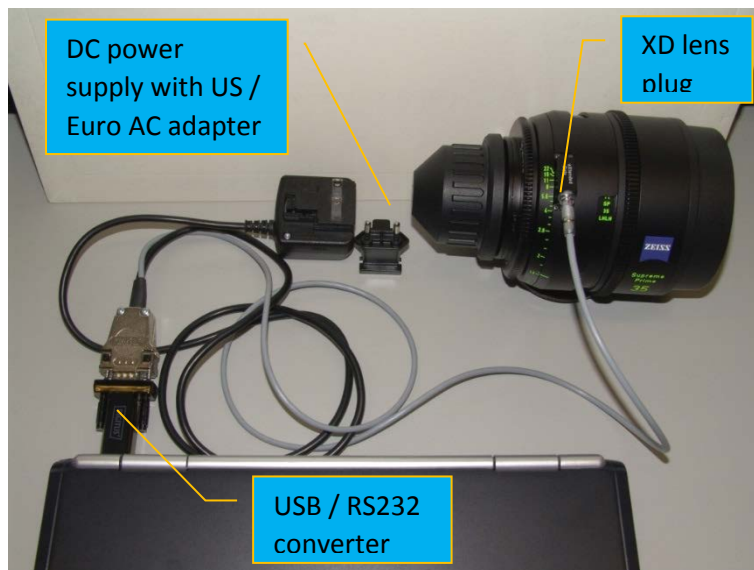

Assemble the housing for the external XD plug with four screws, including the washers.

Preparing the Connection Kit

- Attach the US or Euro power adapter to the power supply.

- Plug the power supply into an AC main power socket.

- Connect the USB / RS232 converter to a free USB port of the computer.

- Connect the 9 pin D-Sub female plug to the USB / RS232 converter.

- Finally connect the XD plug to the lens.

Setup of the computer

Start your computer.

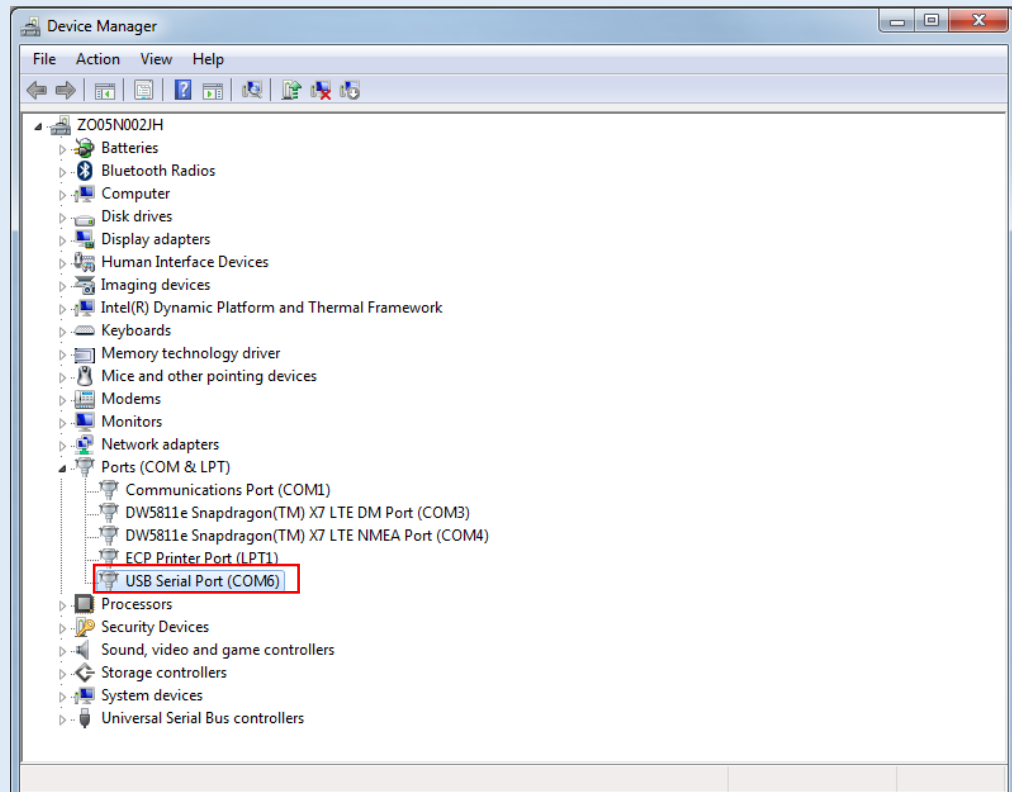| INFO	A window should pop up reading that drivers have been installed and your device is ready to use.

Identify the COM port (COM#) the computer is using for the Connection Kit.

INFO	You´ll find the COM port in the **Device Manager** under **Ports (COM & LPT)>USB Serial Port**. To get to the Device Manager, press the **WINDOWS** key and type in "Device Manager".

In this example the identified COM port would be **COM6.**

Loadingthe most recent software on the computer

New firmware can be downloaded from the Zeiss homepage. The necessary installation file, a brief description of the new firmware features and the manual are stored in a .zip file.

Download the most recent firmware and un – zip it.

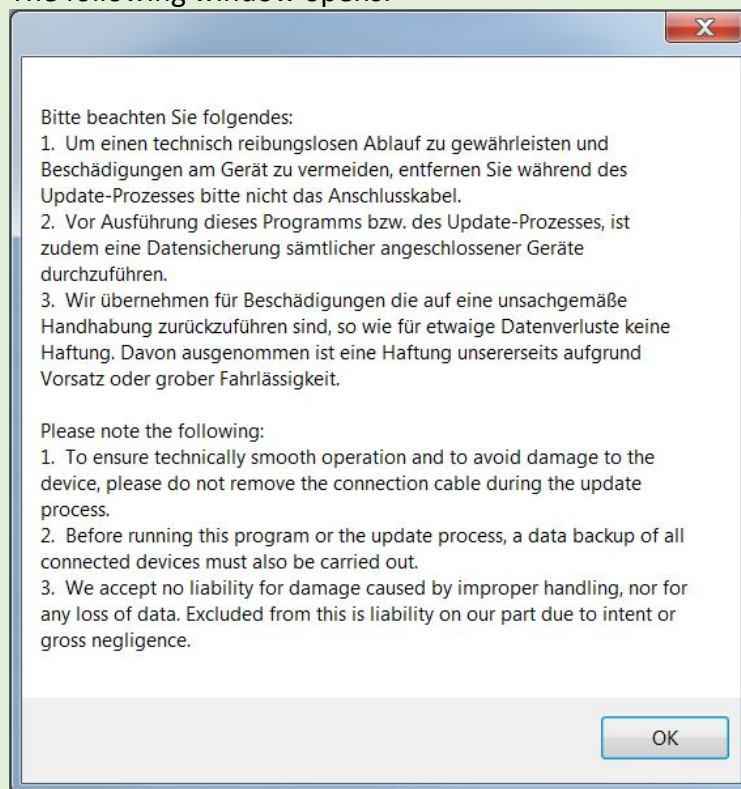| INFO | You can find the download section here: www.zeiss.com/camera-lenses/int/service/download-center.html. |

Update the lens firmware
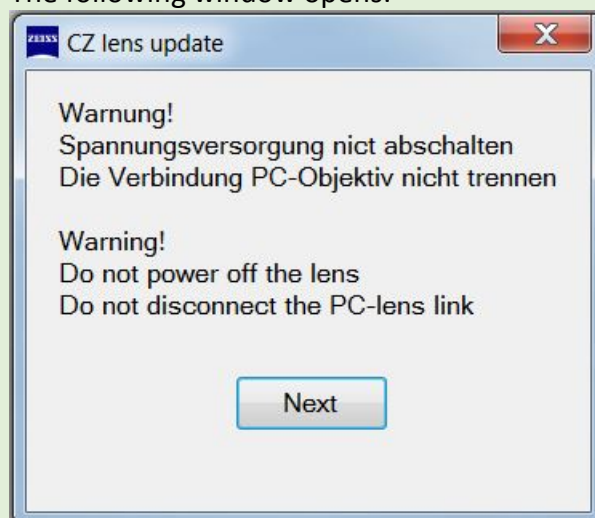
Start the installer program "LensUpdate_1_nn.exe".
The software displays a disclaimer and warning messages. Please read these info's carefully.

RESULT   The following window opens:

Bitte beachten Sie folgendes:
1. Um einen technisch reibungslosen Ablauf zu gewährleisten und Beschädigungen am Gerät zu vermeiden, entfernen Sie während des Update-Prozesses bitte nicht das Anschlusskabel.
2. Vor Ausführung dieses Programms bzw. des Update-Prozesses, ist zudem eine Datensicherung sämtlicher angeschlossener Geräte durchzuführen.
3. Wir übernehmen für Beschädigungen die auf eine unsachgemäße Handhabung zurückzuführen sind, so wie für etwaige Datenverluste keine Haftung. Davon ausgenommen ist eine Haftung unsererseits aufgrund Vorsatz oder grober Fahrlässigkeit.

Please note the following:
1. To ensure technically smooth operation and to avoid damage to the device, please do not remove the connection cable during the update process.
2. Before running this program or the update process, a data backup of all connected devices must also be carried out.
3. We accept no liability for damage caused by improper handling, nor for any loss of data. Excluded from this is liability on our part due to intent or gross negligence.

OK

Next a warning message is displayed not to interrupt power supply or cable connection during the update.
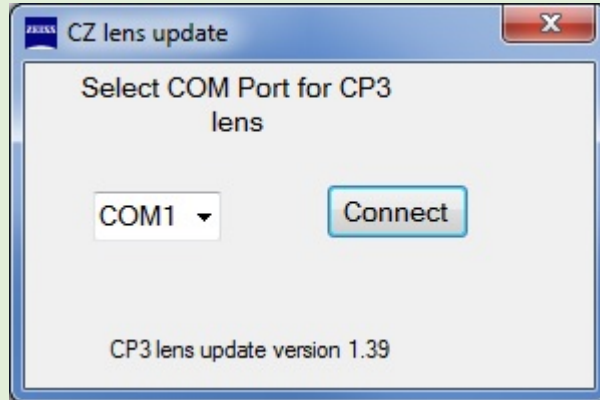
RESULT   The following window opens:

CZ lens update

Warnung!
Spannungsversorgung nict abschalten
Die Verbindung PC-Objektiv nicht trennen

Warning!
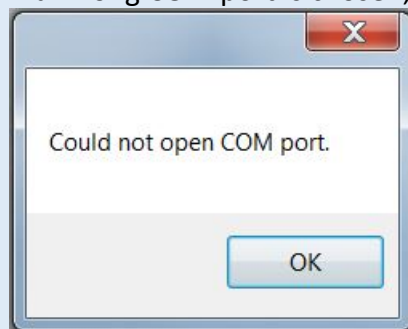Do not power off the lens
Do not disconnect the PC-lens link

Next

Select the USB serial port as identified in the previous paragraph and click on the „Connect" button to enable the communication between PC and lens.

RESULT   The following window opens:

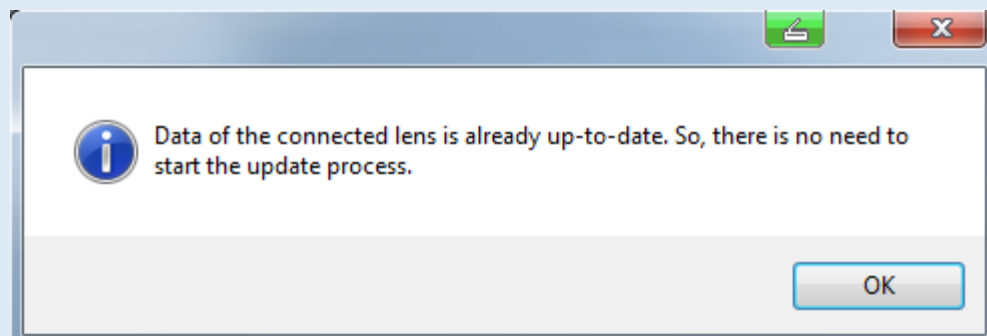**INFO**   If a wrong COM port is chosen, the following window opens:

Now the software checks and display basic lens informations and the actual firmware stored on the lens.

If the stored firmware version on the lens is older than the new firmware, the newer version can be updated by clicking on the Update button.
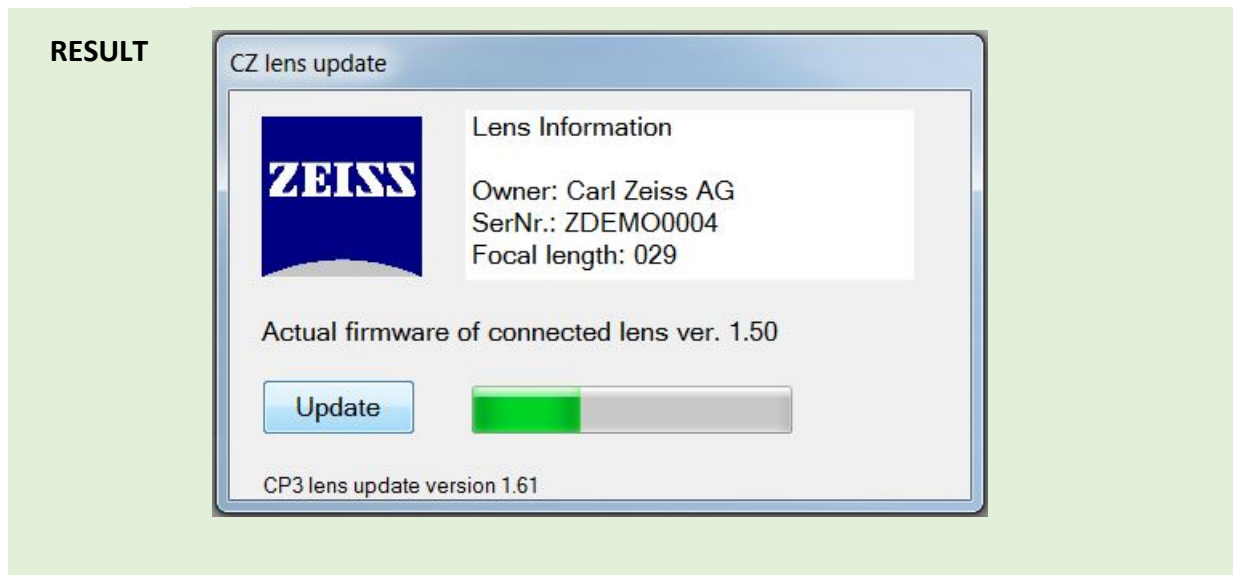
RESULT   The following window opens:

INFO   If your lens is already up-to-date, the following window will open instead. No further action is needed.

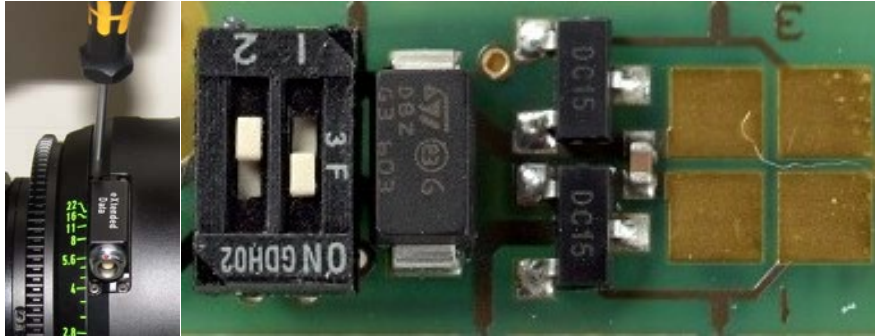While the lens update runs a green vertical bar indicate the progress.

RESULT

CZ lens update

Lens Information

Owner: Carl Zeiss AG
SerNr.: ZDEMO0004
Focal length: 029

Actual firmware of connected lens ver. 1.50

Update

CP3 lens update version 1.61

When the new firmware is transmitted on the lens successfully the installer program confirms with the following status message.

RESULT

CZ lens update

Status OK!

Close

Finally plug out the XD cable from the lens.

Setting the lens to the Cooke /i mode*

Dis -assemble the housing for the external XD plug and set the mode switches back to the Cooke /i* mode.

Finaly assemble the XD plug housing.

Troubleshooting

	Reason: Drivers are not installed properly.		
I can´t find USB Serial Port under the Ports (COM & LPT) tab in the Device Manager.	Install the drivers from the enclosed CD.		
	INFO	If you can´t find the CD, you can download the drivers from the manufacturers [website.](#)	
	RESULT	The **USB Serial Port** is now listed under **Ports (COM & LPT)** in the **Device Manager**.	

/i is a registered trademark of Cooke Optics Limited used with permission.

Appendix

Accessories	ZEISS Identification Number
Connection Kit eXtended Data	2217-107

Document subject to change!

Carl Zeiss AG
Camera Lenses
73446 Oberkochen
Germany

www.zeiss.com/cine