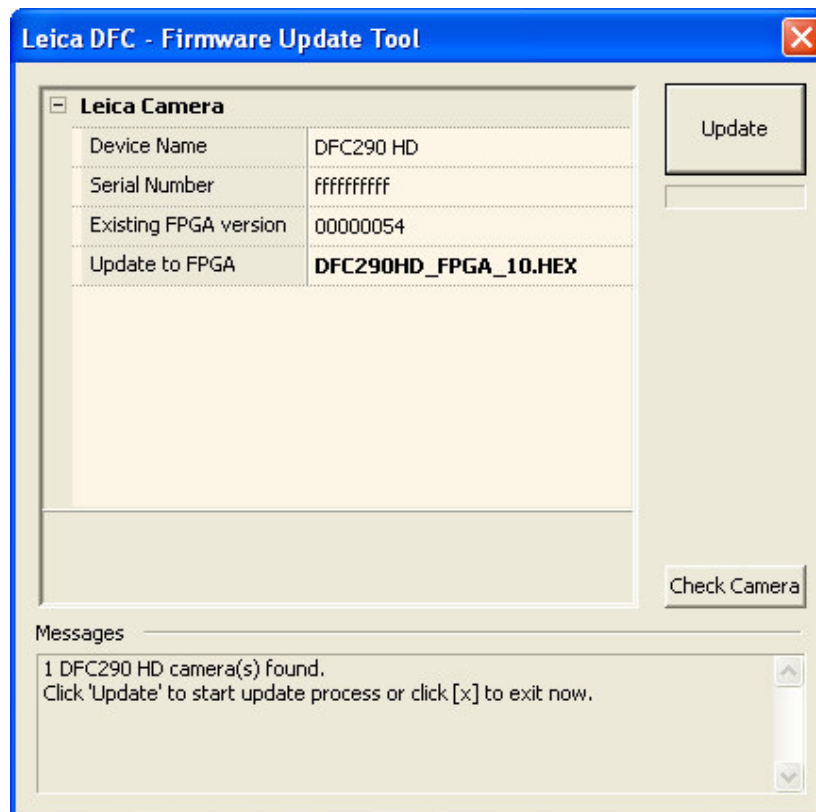# Firmware-Update for Leica DFC290 HD

January, 2010

About this firmware update

This firmware update can be installed on all DFC290 HD cameras produced by Leica before 2010. The firmware tool checks automatically if the update can be installed or if it is not necessary. The firmware update fixes a problem with some PCs that show horizontal stripes in the live or capture images. These stripes are caused by a PCI bus overload due to heavy data traffic from camera to PC over the firewire bus. Installing the firmware update will avoid PCI bus overload and remove the stripes in the images.
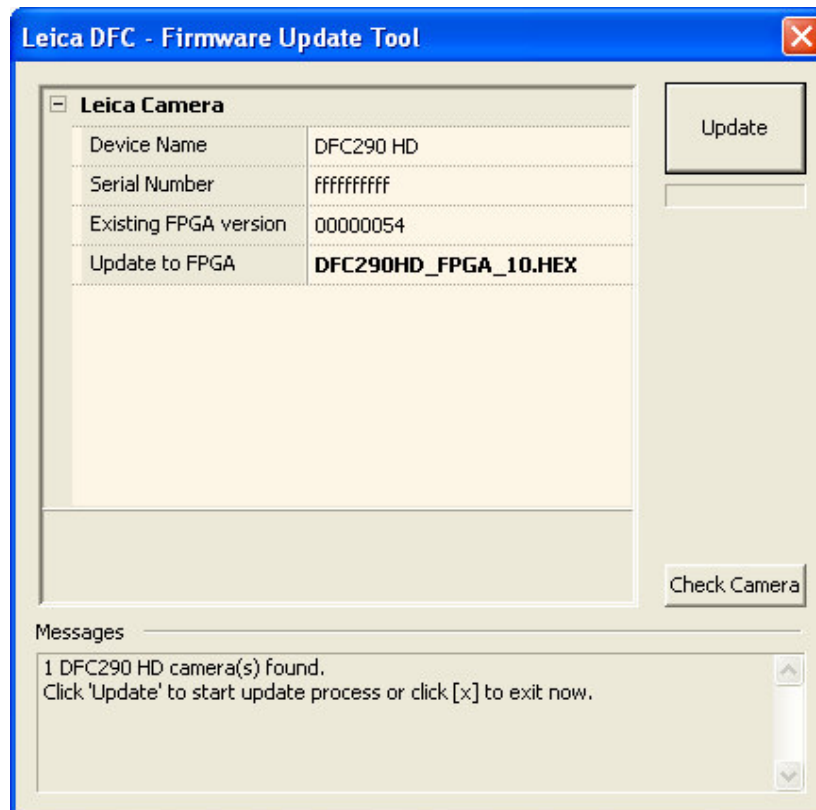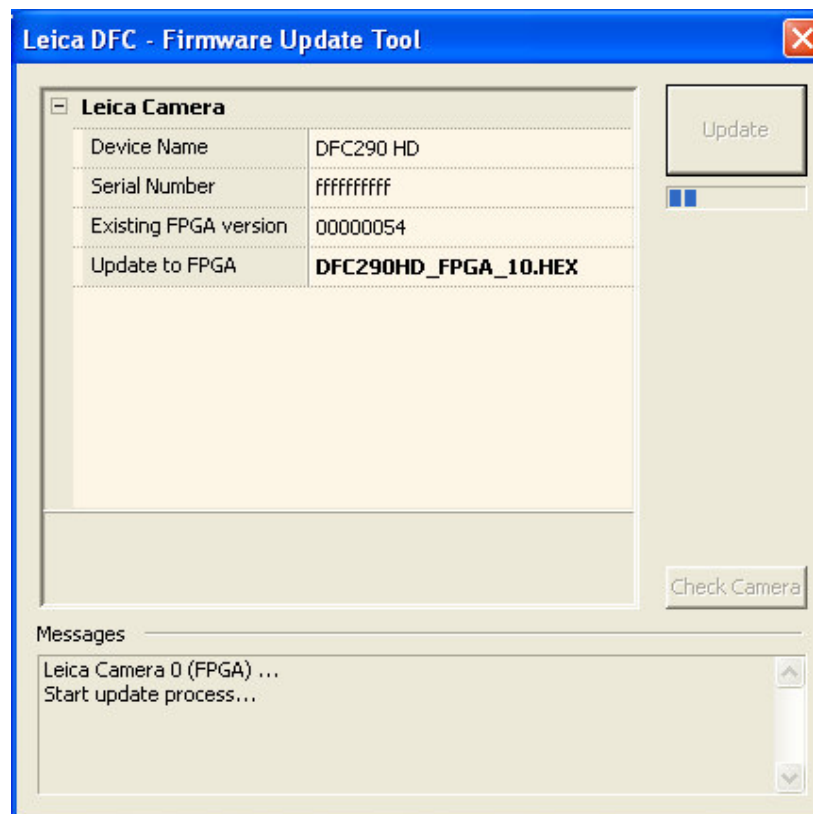

Installation instruction

1. Extract the ZIP-archive "`FWupdate_DFC290HD.zip`", it contains the fwupdate.exe tool and the new firmware files for each of the this camera.

2. Perform the following update steps for each camera of type DFC290 HD separately:
   a. Please connect the camera to be updated to the PC. Make sure that no other camera is connected!
   b. Start the update tool fwupdate_DFC290HD.exe, it is located in the extracted folder
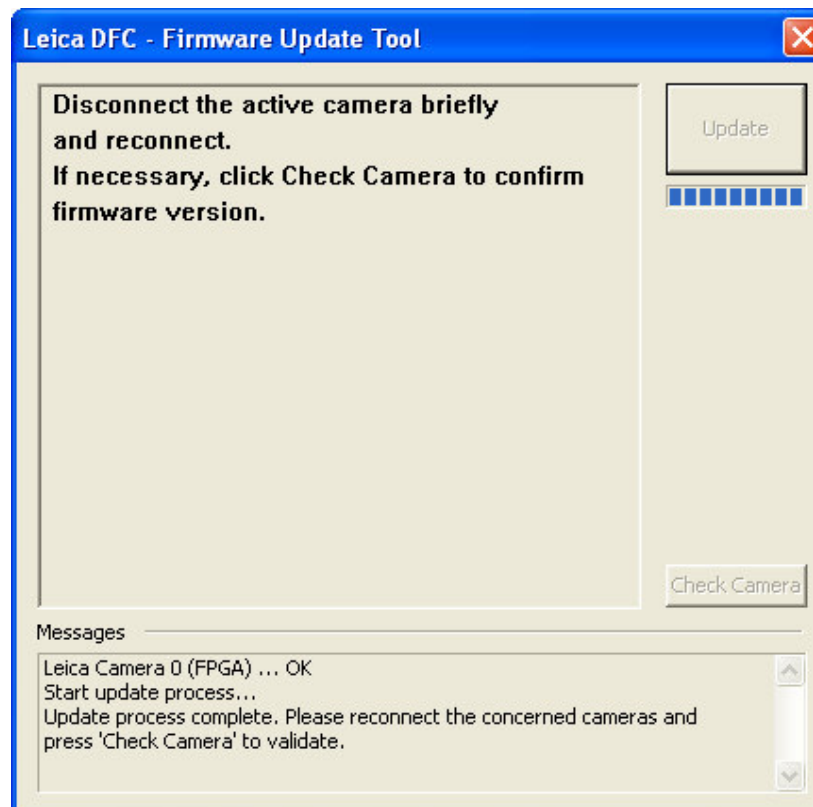   c. A window like this opens: the item that needs to be updated is displayed in bold text.

d. Press the Update button in the top-right corner of the update tool:

e. **Don't disconnect the camera while the update process is running! Otherwise the firmware update will fail and possibly causing permanent damage to the camera.**

Leica DFC - Firmware Update Tool

Leica Camera	
Device Name	DFC290 HD
Serial Number	ffffffffff
Existing FPGA version	00000054
Update to FPGA	**DFC290HD_FPGA_10.HEX**

Update

Check Camera

Messages
Leica Camera 0 (FPGA) ...
Start update process...

f. Wait until the update is finished. It is now ok to disconnect the camera.

Leica DFC - Firmware Update Tool

**Disconnect the active camera briefly and reconnect.
If necessary, click Check Camera to confirm firmware version.**

Update

Check Camera

Messages
Leica Camera 0 (FPGA) ... OK
Start update process...
Update process complete. Please reconnect the concerned cameras and press 'Check Camera' to validate.

g. Finished! For next camera, proceed with step 2.