Allied Vision

USER GUIDE

Vimba Firmware Updater

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2.0.0

Compatibility

Vimba Firmware Updater is available as a separate package for Vimba X users (Vimba includes the Firmware Updater).

If Vimba X is installed, you can use it with:

- All Alvium cameras with GigE, 5GigE, and USB interface
- Goldeye G

Prerequisites

Install Vimba X

Vimba Firmware Updater automatically finds and uses the transport layers of Vimba X or Vimba (you can use Vimba and Vimba X on the same host PC).

Get the firmware

1. Find the firmware or contact information at:
   https://www.alliedvision.com/en/support/firmware-downloads/
2. Store the firmware container on the host PC.

USB (Windows only):

- Make sure you have installed the camera driver with Vimba Driver Installer.

Unpacking Vimba Firmware Updater

You can unpack Vimba Firmware Updater anywhere on your host PC.

Uploading firmware with a GUI

To upload firmware with a GUI:

1. Run VimbaFirmwareUpdater.

2. Click **Open** and select a firmware container file. Optional: Click **Info** to get details about the selected firmware.

3. Click **Update cameras** to upload the automatically selected firmware to your camera.
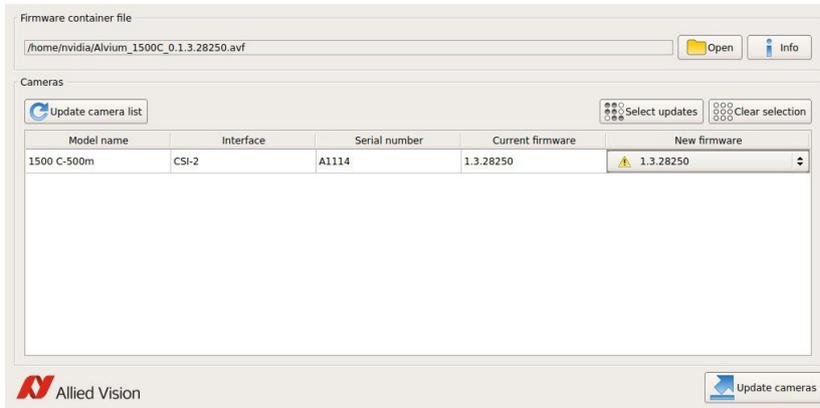

Figure 1: *Main window*

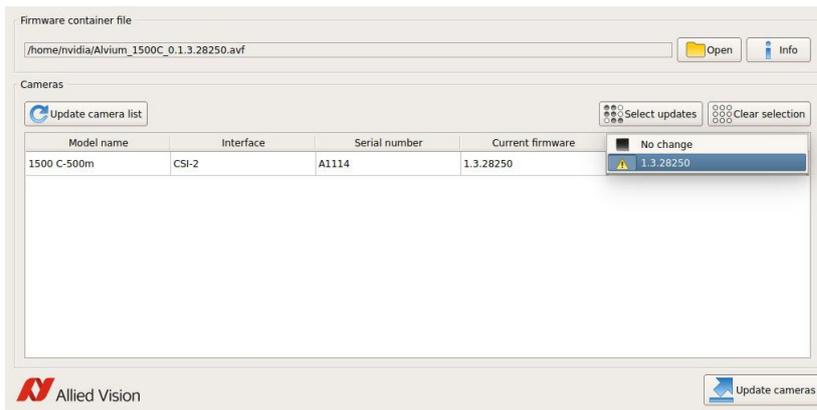To manually select an update, click the drop-down field:

Figure 2: *Manual update*

Update cameras becomes active as soon as a firmware is selected.

Optionally, you can use the buttons **Select updates** and **Clear selection**, which switch on/off the automatic selection of firmware with higher versions than the firmware on the cameras.

Aborting a firmware upload

The possibility to abort firmware uploads was mainly developed for host PCs to allow updating multiple connected cameras in one step. The firmware upload to several cameras takes some time. During the upload, the **Abort** button finishes the upload to the current camera, but doesn't upload firmware to the next camera models.

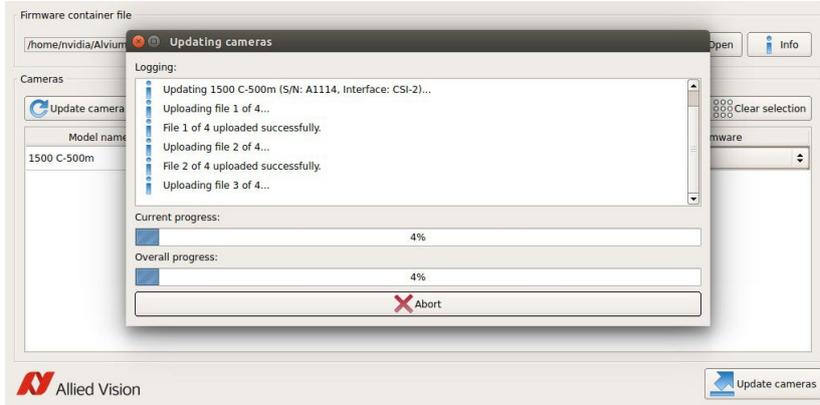With just one camera connected to the host, the Abort button has no function.

Figure 3: *Abort*

Uploading firmware with the console

To upload firmware with the console, use FWUpdaterConsole. This tool provides two main functionalities:

- "--show" or "-s" displays information about camera firmware or a firmware file.
- "--write" or "-w" performs the actual update.

See the following list of use cases:

Use case	Parameters
Show device info for list of cameras	--show--device "list of ids"
Show a list of matching firmware sets for all cameras	--show--container "file"--device all
Show detailed info about matching firmware sets for one camera	--show--container "file"--device "id"
Show firmware set info for one set	--show--container "file"--index "index"
Show firmware set info for list of sets	--show--container "file"--index "list of indices"
Show firmware set info for whole container	--show--container "file"
Write one firmware set to one camera	--write--container "file"--device "id"--index "index"
Write 'best' (latest) firmware set to list of cameras	--write--container "file"--device "list of ids"
Write 'best' (latest) firmware set to all cameras	--write--container "file"--device all
Write one firmware set to one camera in repair mode	--write--repair--container "file"--device "id"--index "index"

Table 1: Use cases for the command line Firmware Updater

The following options may be added to the "show" or " the "write" functionality:

Option	Parameters
Show full information	--verbose,-v
Force writing	--force,-f
Repair device firmware during write	--repair,-r

Table 2: Command options for the firmware update

By calling FWUpdaterConsole--help [command/option], you get more details about the tool or its parameters.