

Application Note

GigE Firmware Update Mako G, Manta, and Prosilica Cameras

V2.0.0 2018-Mar-26

# Introduction

New feature introductions and product improvements are included in new firmware releases. All users are encouraged to use the latest firmware available and complete the firmware update if necessary. To determine the current firmware version loaded onto the camera, read the camera's Device Firmware feature using the Vimba Viewer, GigE SampleViewer, or third party applications such as NI Vision Acquisition Software.



Download the latest GigE firmware loader and *GigE Firmware Release Notes* from the Allied Vision website:

http://www.alliedvision.com/en/support/firmware

Vimba Viewer, GigE SampleViewer downloads:

http://www.alliedvision.com/en/support/software-downloads



### Saved camera UserSets

When new firmware contains a new feature or control, saved camera UserSets or ConfigFiles will be invalidated and erased!

Before loading new firmware, backup your current camera settings.

Vimba Viewer: select the **Save Camera Settings** icon from the **Cameras** window to export the camera settings file (XML file) to the host computer.

GigE SampleViewer: select the **Disk** icon from the **Cameras** window to export camera settings file (XML file) to the host computer.



#### Possible material damage

Do not unplug the GigE cable or camera power supply during the update procedure.

# Prerequisites

The following items are required:

• Host computer with Windows® 10, Windows® 8.1, or Windows® 7 operating system



• Gigabit Ethernet network card and GigE cable



For hardware selection see Hardware Select for Allied Vision GigE Cameras application note at:

http://www.alliedvision.com/en/support/technical-papers-knowledge-base

• Mako G, Manta, Prosilica GE, GC, GT, GB, GX camera

Ensure that you have already installed your GigE camera and it is recognized on your system. See the GigE Installation Manual for more information.



GigE Installation Manual:

http://www.alliedvision.com/en/support/technical-documentation

# Update the firmware on your Allied Vision GigE camera

- 1. Download the appropriate GigE Firmware Loader on the Allied Vision website.
- 2. Ensure your camera is plugged in directly to the Gigabit Ethernet port on the host computer.
- 3. Launch the GigE firmware loader.



Figure 1: Welcome screen



4. Click **Next**. The Firmware Loader displays a list of firmware included in the package.

Manta_G031B Manta_G031B Manta_G031C Manta_G031C Manta_G032B Manta_G032B Manta_G032B	50-20014B 50-20014A 50-20015B 50-20015A 50-20015A 50-20000C	1.44.09 1.44.09 1.44.09 1.44.09			
Manta_G031B Manta_G031C Manta_G031C Manta_G032B Manta_G032B Manta_G032B	50-20014A 50-20015B 50-20015A 50-20000C	1.44.09 1.44.09 1.44.09			
Aanta_G031C Manta_G031C Manta_G032B Manta_G032B Manta_G032B	50-20015B 50-20015A 50-20000C	1.44.09			
Aanta_GU31C Aanta_G032B Aanta_G032B Aanta_G032B	50-20015A 50-20000C	1.44.09			
Manta_G032B Manta_G032B Manta_G032B	50-20000C				
Manta_G032B Manta_G032B		1.44.09			
danta GU32B	50-20000B	1.44.09			
	50-20000A	50-20000A 1.44.09			
fanta_G032C	50-20001C	1.44.09			
fanta_G032C	50-20001B	1.44.09			
Manta_G032C	50-20001A	1.44.09			
danta_G033B	50-200128	1.44.09			
fanta_G033B	50-20012A	1.44.09			
Ianta_G033C	50-200138	1.44.09			
fanta_G033C	50-20013A	1.44.09			
fanta_C040D	50-20004D	1.44.09			
Aanta_CO400	50.20004A	1 44 09			
Manta_G046C	50-200050	1 44 09			
fanta G095B	50-20003/R	1 44 7913			
Manta_G095B	50-20031A	1 44 7913			
Ianta G095C	50-2000 IN	1 // 7913	~		

*Figure 2: List of available camera updates* 

5. Click **Next**. You can select your camera model on this screen.



Figure 3: Camera selection for updating



#### **Recovery Mode**

Select the **Use recovery mode** check box when the connected GigE camera is not found by the firmware loader, or when the GigE camera is listed as unavailable. When selected, power cycle the camera to enter the **Boot Loader** mode.

6. Click Next.



7. Click **Upload** to start the update. The existing firmware will be erased and the new firmware will be updated to the camera.

Firmv	vare Loader - Upload Firmware	×
Click "Upload" to begin:		т
Camera 50-0536872240	Status Not started.	
1		
Upload Abort		
	< Back Quit Cancel	1

Figure 4: Upload start screen

8. Click **Next** and then **Upload** to start the update procedure.



Do not unplug GigE cable or camera power supply during update procedure.

9. The Firmware Loader will display a success status upon completion. Click **Quit** to exit the loader.

Ø Firmware Loader - Upload Firmware	×	Firmware	Loader - Upload Firmware ×
Click "Upload" to begin:		Click "Upload" to begin:	
Camera Status 50-0536871574 Erasing old firmware		Camera Statu 50-0536871574 Succ	us cess. New firmware is loaded.
Upload Abort		Upload Abort	
< Back Next > (	Cancel		< Back Quit Cancel

Figure 5: Status of update





### Power cycle after upgrade or downgrade

You must always power cycle the camera after a firmware upgrade or downgrade.



Please contact support@alliedvision.com if you are unable to load camera firmware, or your camera is not recognized by the GigE Firmware Loader when using recovery mode.



For technical support, please contact support@alliedvision.com. For comments or suggestions regarding this document, please contact info@alliedvision.com.

## Copyright and trademarks

All text, pictures, and graphics are protected by copyright and other laws protecting intellectual property. All content is subject to change without notice.

All trademarks, logos, and brands cited in this document are property and/or copyright material of their respective owners. Use of these trademarks, logos, and brands does not imply endorsement. Copyright © 2018 Allied Vision GmbH. All rights reserved.