

DOCUMENTATION OVERVIEW

Vimba Quickstart Guide

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Vimba tools for every purpose

Vimba is the all-in-one solution for working with Allied Vision cameras.

- Vimba Viewer: The fastest way to get an image
- Development: APIs for C, C++, Python, and .NET with code examples
 Python users: For proper installation, follow the instructions in the
 Allied Vision/Vimba_x.x/VimbaPython folder.
- Third-party applications: GenICam-compliant transport layers, Vimba Cognex Adapter

Vimba Viewer

With Vimba Viewer, you can instantly view images from your Allied Vision camera and try out camera features without programming. To set up your camera with Vimba Viewer, see the Vimba Viewer Guide.

Using Vimba Viewer

- 1. Connect the camera to the host.
- Start Vimba Viewer.The Camera Selector window opens.
- 3. Click the camera you want to open.



Figure 1: Opening a camera

The Main window opens.

4. To start image acquisition, click the **Freerun** button.



Figure 2: Main window, starting image acquisition



GigE/CL cameras, grayed out Freerun button

GigE cameras

In this case, the Main window is in Config Mode to allow the configuration of the GigE settings.

5. Correct the GigE settings (you can find instructions in the camera manual).

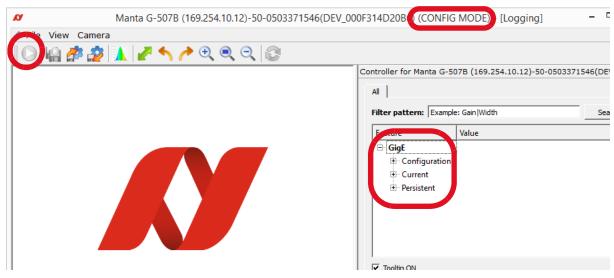


Figure 3: Main window, configuring the GigE settings

- 6. After correcting the GigE settings, close the Main window.
- 7. In the Camera Selector window, right-click the camera.
- 8. Click Open FULL ACCESS.



Figure 4: Camera Selector, opening a camera

The Main window opens.

9. Start image acquisition, see Step 4.

Goldeye CL cameras

You can use Vimba Viewer to configure Goldeye CL cameras and to set features. To acquire images, use the software provided by the frame grabber manufacturer.



More information on camera installation



Further information available online

Select your Allied Vision camera on our website and find detailed information in its manual or user guide:

https://www.alliedvision.com/en/support/technical-documentation.html

Development

Depending on the API, operating system, and the camera interface, different documents are relevant.

In any case, read the Vimba Manual first. To ease programming with Vimba, read the documentation in the order suggested in the table below.

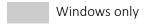


Documentation availability

Documentation is available for the installed components only.

Reading order	Component	Documentation	x = necessary / o = optional							
			С	C++	.NET	Python	IEEE 1394	GigE	USB	CL
1	Vimba	Vimba Manual.pdf	Х	Х	Х					
2	Vimba C API	Vimba C Manual.pdf	Х							
	Vimba C++ API	Vimba CPP Manual.pdf		Х						
	Vimba .NET API	Vimba NET Manual.pdf			х					
	Vimba Python API	Vimba Python Manual.pdf				Х				
3	Camera Features	Vimba1394TLFeaturesManual.pdf					Х			
		GigE_Features_References.pdf						Х		
		USB_Features_Reference.pdf							Х	
		Goldeye_Features_Reference.pdf								Х
4	Vimba Features	Vimba Manual.pdf	Х	Х	Х	Х				
5	Vimba Image Transform Library	Vimba ImageTransform Manual.pdf	0	0						
6	Transport Layer	Vimba1394TLFeaturesManual.pdf					0			
		VimbaGigETLFeaturesManual.pdf						0		
		VimbaUSBTLFeaturesManual.pdf							0	
		Vimba CL Config TL Features Manual.pdf								0

Table 1: Manuals for the developer





Examples

For a quick start, examples are included in the Vimba installation.



Linux

Linux does not provide access via start menu or ExamplesOverview.hta. Instead, you can find the programming examples in the Vimba installation directory:

- VimbaCPP/Examples, VimbaC/Examples
- VimbaPython/Examples



Figure 5: Windows Start Menu, access to Vimba Examples

In the Examples directory, ExamplesOverview.hta provides an overview of and links to the enclosed examples.

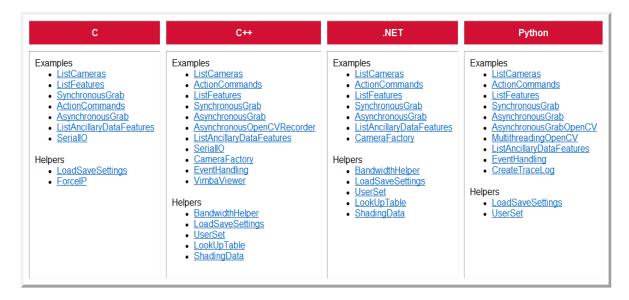


Figure 6: ExamplesOverview.hta (Windows only)



Third-party applications

Vimba provides GenlCam-compliant TLs (transport layers) for GigE, USB, 1394, and Goldeye CL cameras from Allied Vision. To use these cameras with a third-party application, read the documentation in the order suggested in Table 2.



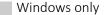
Applications not compliant with GenICam

After the Vimba installation, GenlCam-compliant third-party applications automatically find and use the Vimba TL.

For third-party applications not compliant with GenlCam, read the corresponding manual.

Reading order	Component	Documentation		x = necessary o = optional					
			IEEE 1394	GigE	USB	CL			
1	GenlCam-compliant third-party applications	Please read the documentation of the third-party application. Depending on the third-party application, also see the following:							
2	Camera Features	Vimba1394TLFeaturesManual.pdf	Х						
		GigE_Features_References.pdf		Х					
		USB camera Features Reference			Х				
		Goldeye_Features_Reference.pdf				Х			
3	Transport Layer	Vimba1394TLFeaturesManual.pdf	0						
		VimbaGigETLFeaturesManual.pdf		0					
		VimbaUSBTLFeaturesManual.pdf			0				
		VimbaCLConfigTLFeaturesManual.pdf				0			

Table 2: Manuals for the third-party application user





Cognex Adapter

Cognex VisionPro is supported by the Vimba CognexAdapter (Windows only). For more information, see Vimba Cognex Manual.pdf and the Features Reference documents.



Contact us

Technical information:

https://www.alliedvision.com

Support:

https://www.alliedvision.com/en/support/contact-support-and-repair.html

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