

## 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++, and .NET, with coding examples
- *Third-party applications*: GenICam-compliant transport layers, *Vimba Cognex Adapter*

## Vimba Viewer

Use *Vimba Viewer* to instantly view images from your Allied Vision camera and to try out camera features without any programming.

### Using Vimba Viewer

1. Connect the camera to the PC.
2. Start *Vimba Viewer*.  
The *Camera Selector* opens.
3. In the *Camera Selector*, to open a camera, click the appropriate list item:

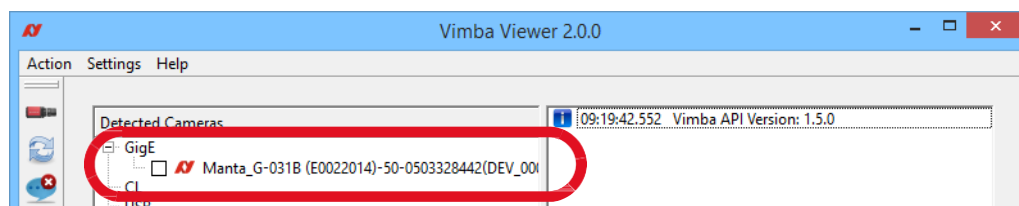


Figure 1: Camera Selector, opening a camera by default

The *Main window* opens automatically.

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

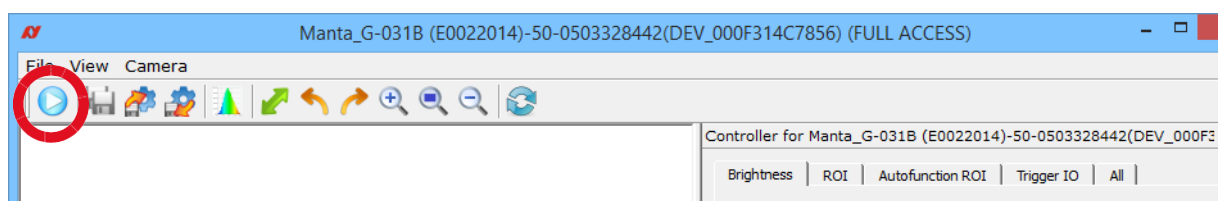


Figure 2: Main window, starting image acquisition

## 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 interface settings.

5. Correct the interfacesettings:

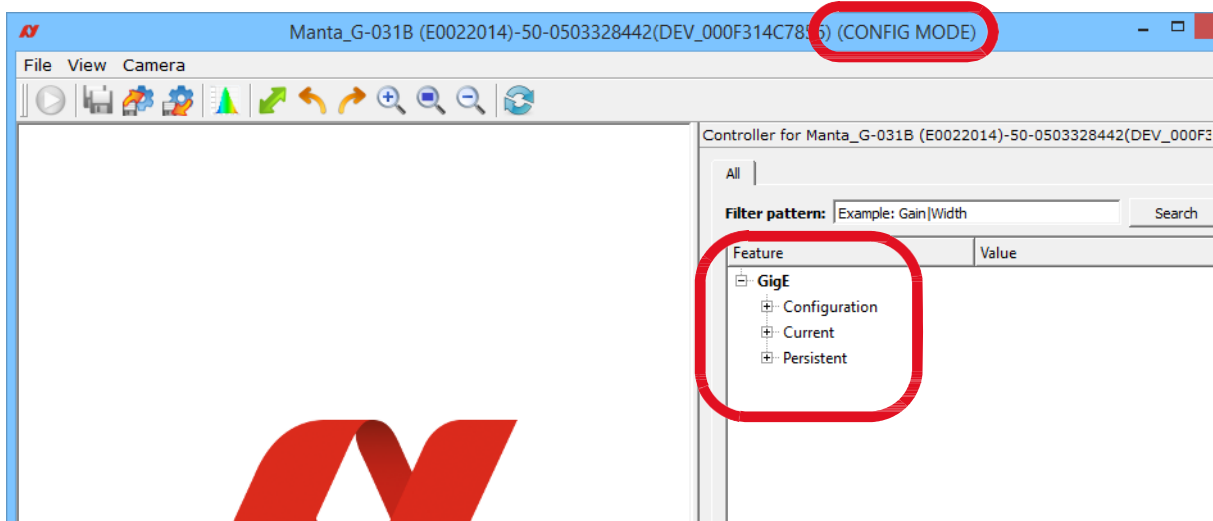


Figure 3: Main window, configuring the GigE interface settings

6. After correcting the interface settings, close the *Main window*.
7. In the *Camera Selector*, to open a camera, right-click the appropriate list item.
8. Click **Open FULL ACCESS**:

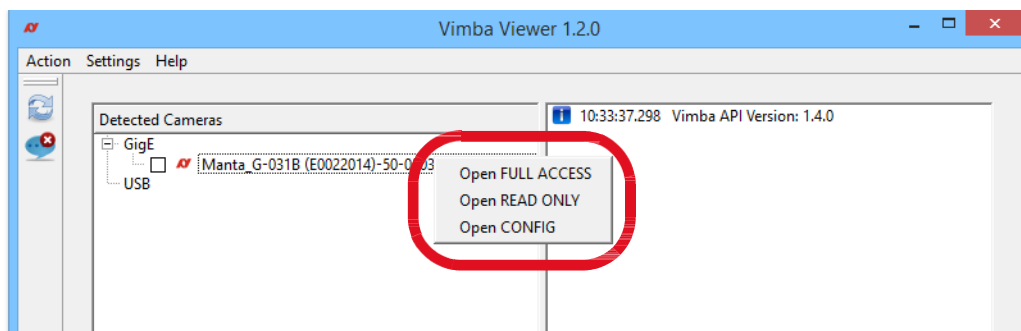


Figure 4: Camera Selector, opening a camera

The *Main window* opens automatically.

9. Start image acquisition, see [Step 4](#).

### Goldeye CL cameras

Use *Vimba Viewer* to configure Goldeye CL cameras and 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 installation manual:

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

## Development

Depending on your programming language and the camera interface, different documents are relevant.

In any case, starting with the *Vimba Manual* is recommended. To ease programming with *Vimba*, read the documentation in the order suggested in the table below:



### Documentation availability

The documentation is available for the installed components only.

Reading order	Component	Documentation	x = necessary / o = optional						
			C	C++	.NET	IEEE 1394	GigE	USB	CL
1	Vimba	<a href="#">Vimba Manual.pdf</a>	x	x	x				
2	Vimba C API	<a href="#">Vimba C Manual.pdf</a>	x						
	Vimba C++ API	<a href="#">Vimba CPP Manual.pdf</a>		x					
	Vimba .NET API	<a href="#">Vimba NET Manual.pdf</a>			x				
3	Camera Features	<a href="#">Vimba1394TLFeaturesManual.pdf</a>				x			
		<a href="#">GigE_Features_References.pdf</a>					x		
		<a href="#">USB_Features_Reference.pdf</a>						x	
		<a href="#">Goldeye_Features_Reference.pdf</a>							x
4	Vimba Features	<a href="#">Vimba Features Manual.pdf</a>	x	x	x				
5	Vimba Image Transform Library	<a href="#">Vimba ImageTransform Manual.pdf</a>	o	o					
6	Transport Layer	<a href="#">Vimba1394TLFeaturesManual.pdf</a>				o			
		<a href="#">VimbaGigETLFeaturesManual.pdf</a>					o		
		<a href="#">VimbaUSBTlFeaturesManual.pdf</a>						o	
		<a href="#">VimbaCLConfigTLFeaturesManual.pdf</a>							o

Table 1: Manuals for the developer



Windows only

## Coding examples

For a practical introduction to *Vimba* coding, **Vimba Examples** are helpful.



### Linux coding examples

*Linux* does not provide access via start menu or ExamplesOverview.hta. Under *Linux*, see in the *Vimba* installation directory:

- VimbaCPP/Examples
- VimbaC/Examples

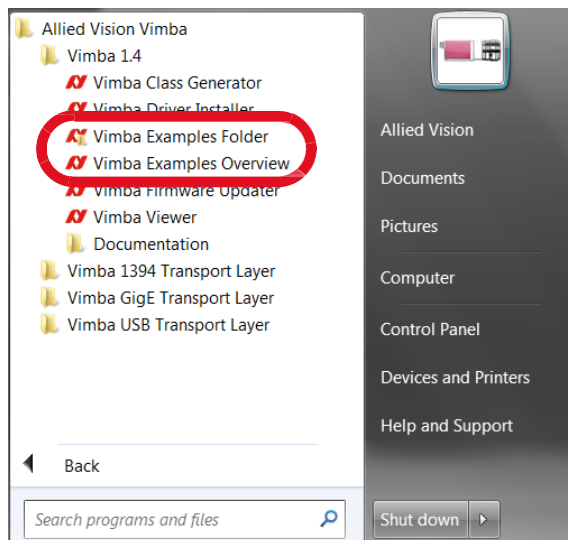


Figure 5: Windows Start Menu, access to Vimba Examples

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

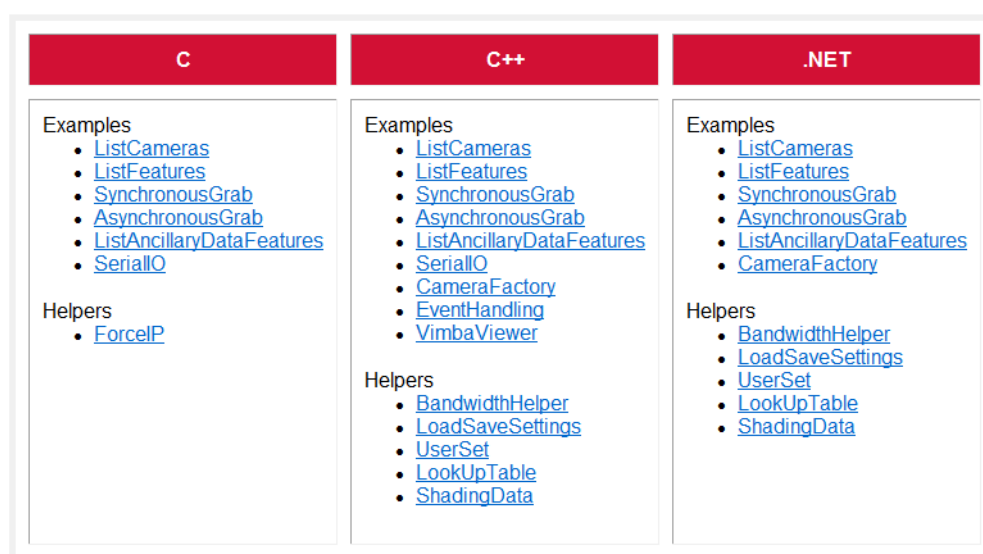


Figure 6: ExamplesOverview.hta (Windows only)

## Third-party applications

*Vimba* provides GenICam-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 non-compliant with GenICam

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

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

Reading order	Component	Documentation	x = necessary o = optional			
			IEEE 1394	GigE	USB	CL
1	GenICam-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	<a href="#">Vimba1394TLFeaturesManual.pdf</a>	x			
		<a href="#">GigE_Features_References.pdf</a>		x		
		<a href="#">USB_Features_Reference.pdf</a>			x	
		<a href="#">Goldeye_Features_Reference.pdf</a>				x
3	Transport Layer	<a href="#">Vimba1394TLFeaturesManual.pdf</a>	o			
		<a href="#">VimbaGigETLFeaturesManual.pdf</a>		o		
		<a href="#">VimbaUSBTlFeaturesManual.pdf</a>			o	
		<a href="#">VimbaCLConfigTLFeaturesManual.pdf</a>				o

Table 2: Manuals for the third-party application user

 Windows only



### Cognex Adapter

*Cognex VisionPro* is supported by the *Vimba CognexAdapter* (Windows only). For more information see [Vimba Cognex Manual.pdf](#).

For extended functionality of the *Vimba Cognex Adapter*, see [Vimba1394TLFeaturesManual.pdf](#), [GigEFeaturesReferences.pdf](#), [USBFeaturesReference.pdf](#), or [Goldeye\\_Features\\_Reference.pdf](#).

## Contact us

Technical information:

<https://www.alliedvision.com>

Support:

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

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