

## 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 source code examples
- [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 setup your camera with Vimba Viewer, see the [Vimba Viewer Guide](#).

### Using Vimba Viewer

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

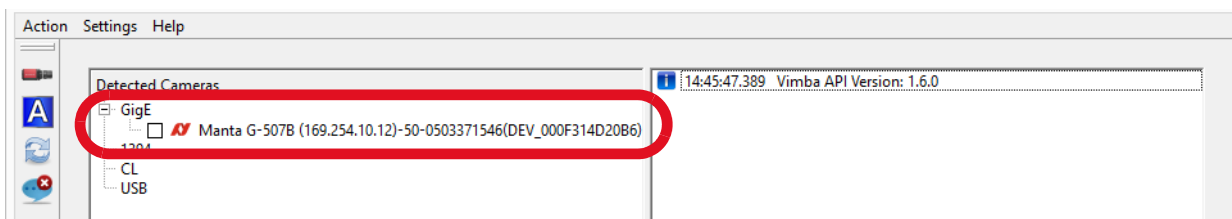


Figure 1: Opening a camera

The Main window opens.

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

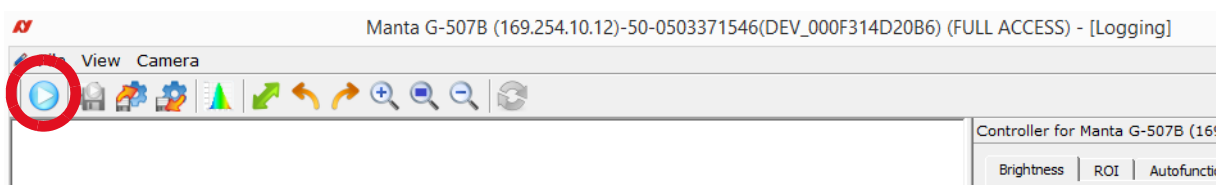


Figure 2: Main window, starting image acquisition

## 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.

1. Correct the GigE settings (you can find instructions in the GigE Installation Manual).

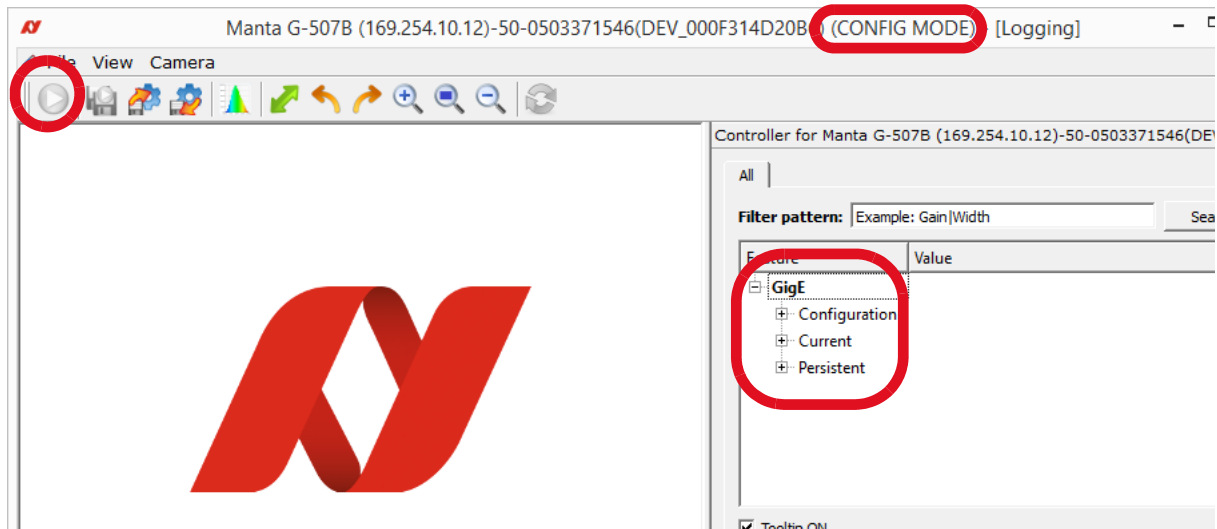


Figure 3: Main window, configuring the GigE settings

2. After correcting the GigE settings, close the Main window.
3. In the Camera Selector window, right-click the camera.
4. Click **Open FULL ACCESS**.

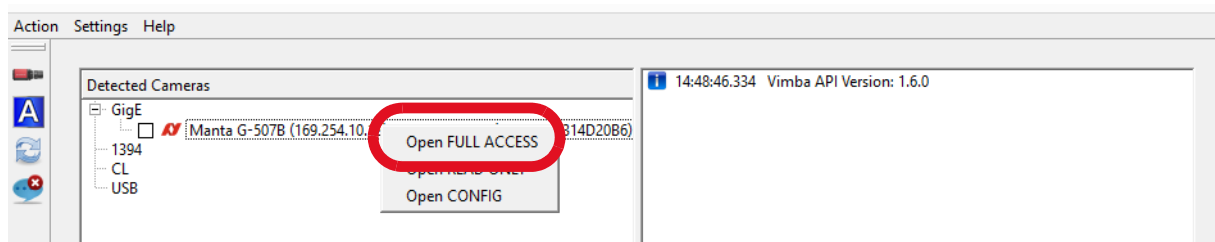


Figure 4: Camera Selector, opening a camera

The Main window opens.

5. 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



### Download technical documentation

Select your Allied Vision camera on our website and find detailed technical documentation:

<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						
			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
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

## Programming examples

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

### Windows

Vimba programming examples are listed in the Allied Vision Vimba app overview.

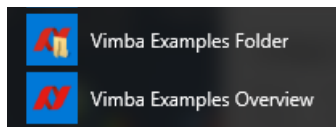


Figure 5: Allied Vision Vimba app, access to Vimba Examples

Vimba Examples Overview provides links to the programming examples.

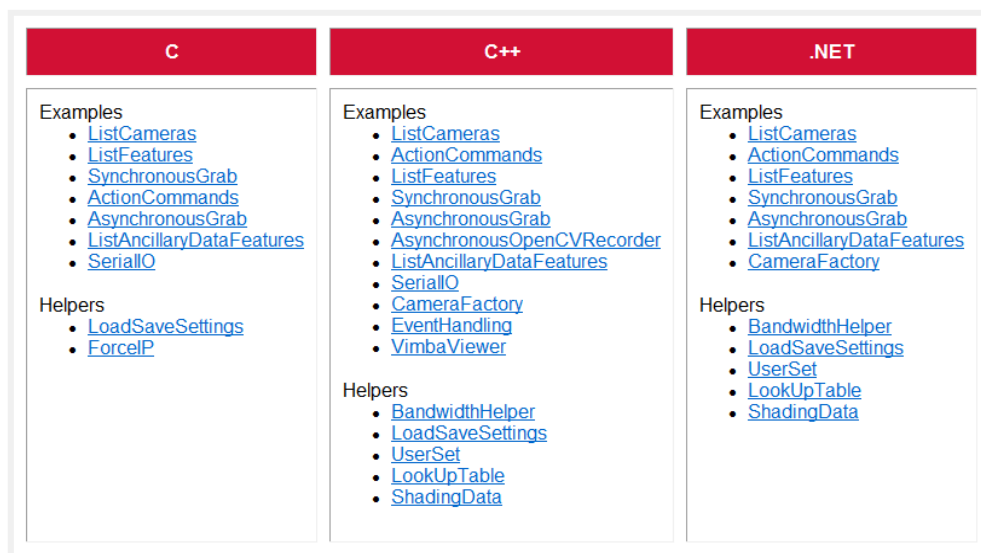


Figure 6: Examples Overview (Windows only)

### Linux

you can find the programming examples in the Vimba installation directory:

- VimbaCPP/Examples
- VimbaC/Examples

## 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 not 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 Cognex Adapter (Windows only). For more information, see [Vimba Cognex Manual.pdf](#).

## Contact us

### Connect with Allied Vision by function

<https://www.alliedvision.com/en/meta-header/contact-us.html>

### Support

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

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