

# A tour through Vimba

For developers

As of March 2019



# vimba

# Vimba – the right choice for all applications

Vimba is the powerful **GenICam-based SDK** for cameras from Allied Vision.

Vimba lets you program in **C, C++, or .NET**.

You can also use your camera with your favorite software.



# vimba

Program Files > Allied Vision > Vimba\_x.x

Name

- Adapters
- Documentation
- ThirdParty
- Tools
- Vimba1394TL
- VimbaC
- VimbaCLConfigTL
- VimbaCPP
- VimbaGigETL
- VimbalmageTransform
- VimbaNET
- VimbaUSBTL

Depending on the OS and selected installation options, different items are available.

To quickly access Vimba's components, navigate to the Allied Vision Vimba program folder:

**Program Files -> Allied Vision -> Vimba\_x.x**



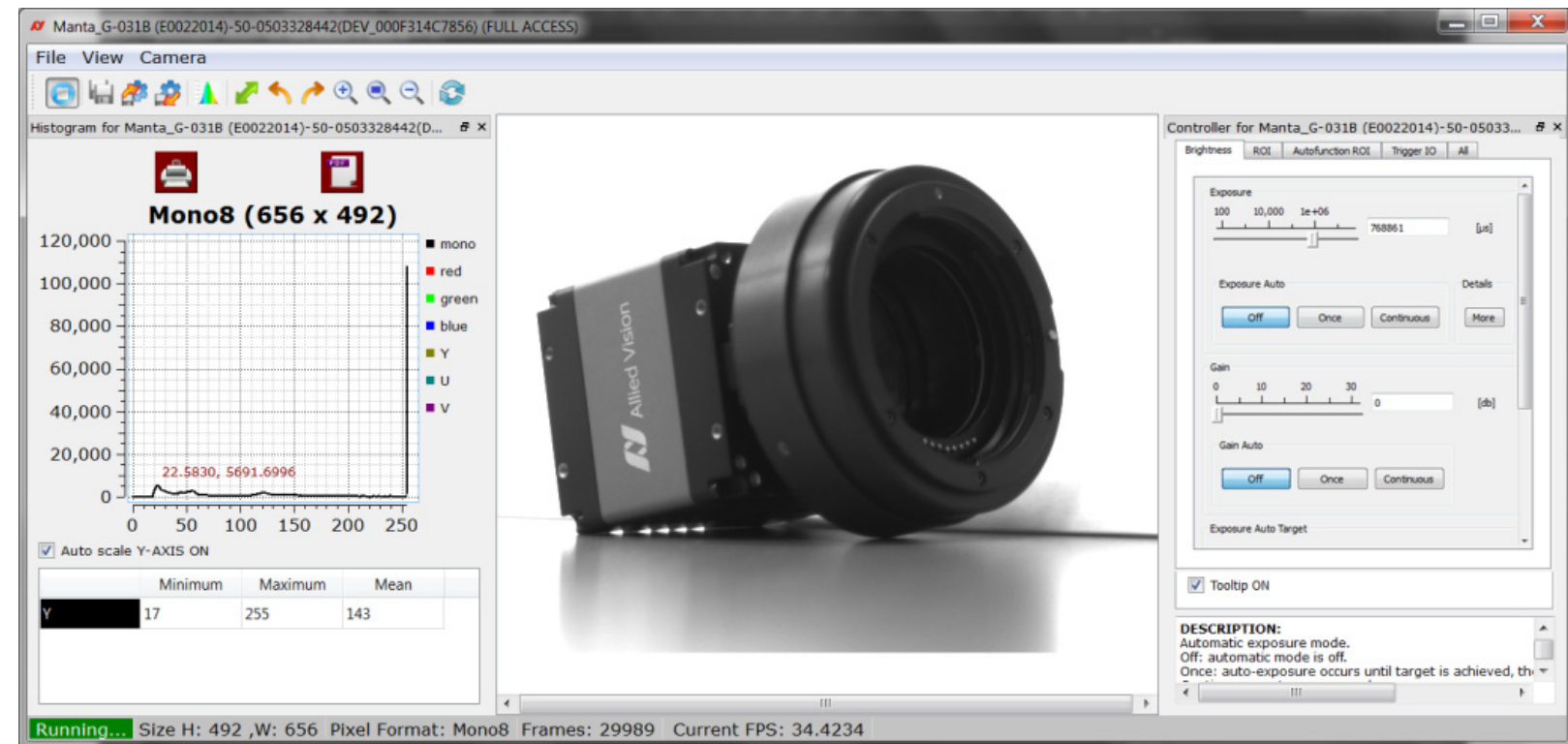
# VIMBA

Program Files > Allied Vision > Vimba\_x.x > Tools

Name

- ClassGenerator
- DriverInstaller
- FirmwareUpdater
- Viewer**


A good way to start exploring your camera is the **Vimba Viewer**.





# vimba

Program Files > Allied Vision > Vimba\_x.x > Documentation


Name

 ReleaseNotes.txt

 Vimba Manual.pdf

 Vimba Quickstart Guide.pdf

 Vimba Tour.pdf

 Vimba Viewer Guide.pdf

The **Vimba Quickstart Guide** is the perfect starting point for our comprehensive documentation.

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

Table 1: Manuals for the developer

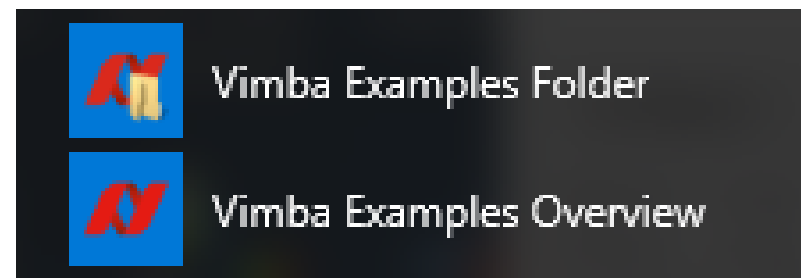
 Windows only

# VIMBA

Find programming examples in the folder you selected during the Vimba installation, e.g.:

Examples Target Folder	C:\Users\Public\Documents\Allied Vision\Vimba_x.x
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Windows users can also find them in the apps overview.



C	C++	.NET
<p>Examples</p> <ul style="list-style-type: none"> <li><a href="#">ListCameras</a></li> <li><a href="#">ListFeatures</a></li> <li><a href="#">SynchronousGrab</a></li> <li><a href="#">ActionCommands</a></li> <li><a href="#">AsynchronousGrab</a></li> <li><a href="#">ListAncillaryDataFeatures</a></li> <li><a href="#">SerialIO</a></li> </ul> <p>Helpers</p> <ul style="list-style-type: none"> <li><a href="#">LoadSaveSettings</a></li> <li><a href="#">ForcelP</a></li> </ul>	<p>Examples</p> <ul style="list-style-type: none"> <li><a href="#">ListCameras</a></li> <li><a href="#">ActionCommands</a></li> <li><a href="#">ListFeatures</a></li> <li><a href="#">SynchronousGrab</a></li> <li><a href="#">AsynchronousGrab</a></li> <li><a href="#">AsynchronousOpenCVRecorder</a></li> <li><a href="#">ListAncillaryDataFeatures</a></li> <li><a href="#">SerialIO</a></li> <li><a href="#">CameraFactory</a></li> <li><a href="#">EventHandling</a></li> <li><a href="#">VimbaViewer</a></li> </ul> <p>Helpers</p> <ul style="list-style-type: none"> <li><a href="#">BandwidthHelper</a></li> <li><a href="#">LoadSaveSettings</a></li> <li><a href="#">UserSet</a></li> <li><a href="#">LookUpTable</a></li> <li><a href="#">ShadingData</a></li> </ul>	<p>Examples</p> <ul style="list-style-type: none"> <li><a href="#">ListCameras</a></li> <li><a href="#">ActionCommands</a></li> <li><a href="#">ListFeatures</a></li> <li><a href="#">SynchronousGrab</a></li> <li><a href="#">AsynchronousGrab</a></li> <li><a href="#">ListAncillaryDataFeatures</a></li> <li><a href="#">CameraFactory</a></li> </ul> <p>Helpers</p> <ul style="list-style-type: none"> <li><a href="#">BandwidthHelper</a></li> <li><a href="#">LoadSaveSettings</a></li> <li><a href="#">UserSet</a></li> <li><a href="#">LookUpTable</a></li> <li><a href="#">ShadingData</a></li> </ul>

*Vimba Examples Overview*

# VIMBA




# GEN*<i>*CAM

Do you use a GenICam-compliant **third-party software**?

It will automatically find and connect with Vimba's transport layers.

Program Files > Allied Vision > Vimba\_x.x > VimbaGigETL > Documentation

Name

-  GigE\_Features\_Reference.pdf
-  ReleaseNotes.txt
-  VimbaGigETLFeaturesManual.pdf



# vimba

# More information

More questions?  
Our staff is happy to assist you.

[www.alliedvision.com/contact](http://www.alliedvision.com/contact)

Enjoy working with Vimba!



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