

# A tour through Vimba

For developers

As of August 2014



Watch the Vimba tour as a video:  
[www.alliedvisiontec.com/software](http://www.alliedvisiontec.com/software)

**vimba**  
AVT SOFTWARE DEVELOPMENT KIT

# Vimba – the right choice for all applications

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

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

You can also use your camera with your favorite software.



**vimba**  
AVT SOFTWARE DEVELOPMENT KIT

# Vimba's components

The next pages show you a quick overview of Vimba's components.

GEN< i >CAM

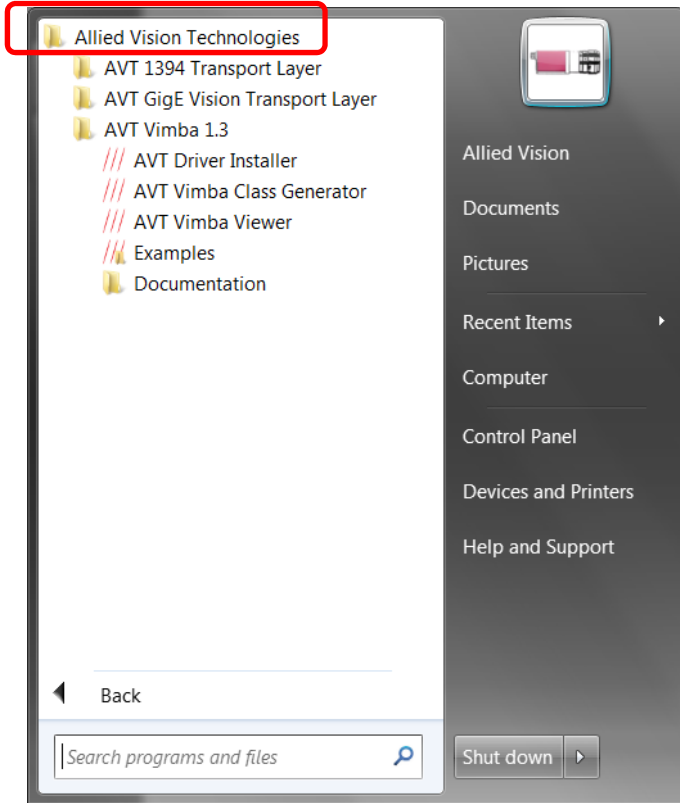
GiGE<sup>®</sup>  
VISION

FireWire



**vimba**

AVT SOFTWARE DEVELOPMENT KIT

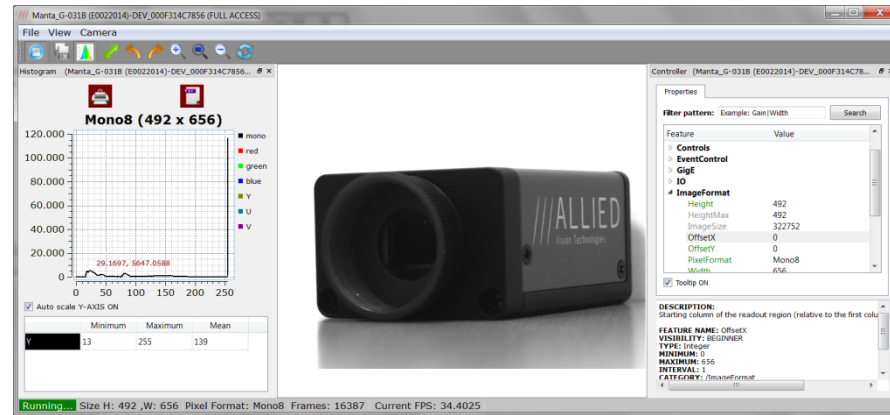
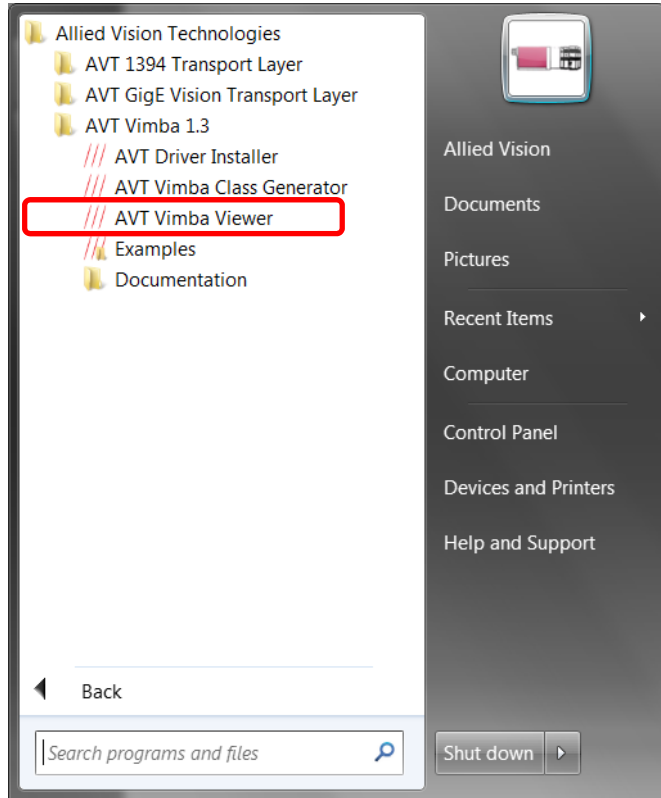


To quickly access Vimba's components, navigate to the Allied Vision Technologies program group:

**Start -> All Programs -> Allied Vision Technologies**

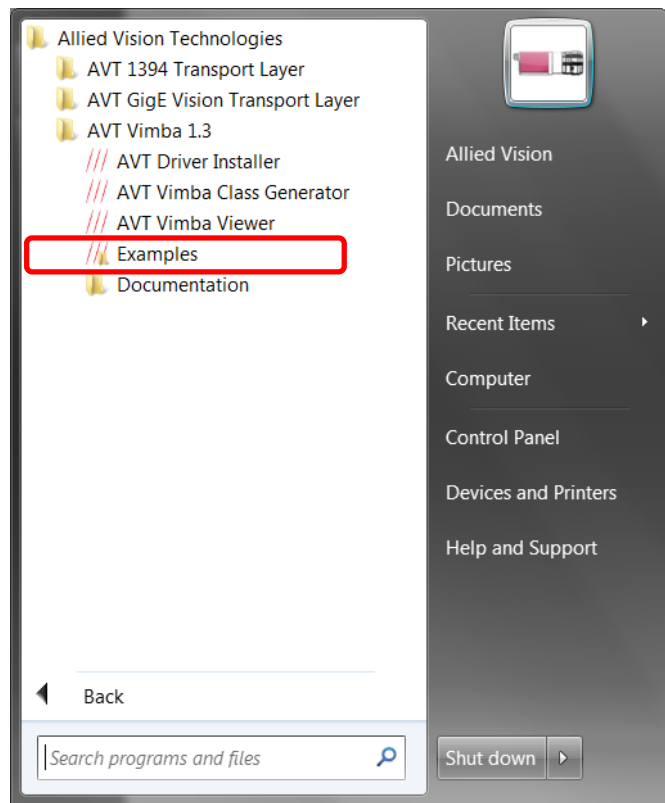
**vimba**  
AVT SOFTWARE DEVELOPMENT KIT

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



**vimba**  
AVT SOFTWARE DEVELOPMENT KIT

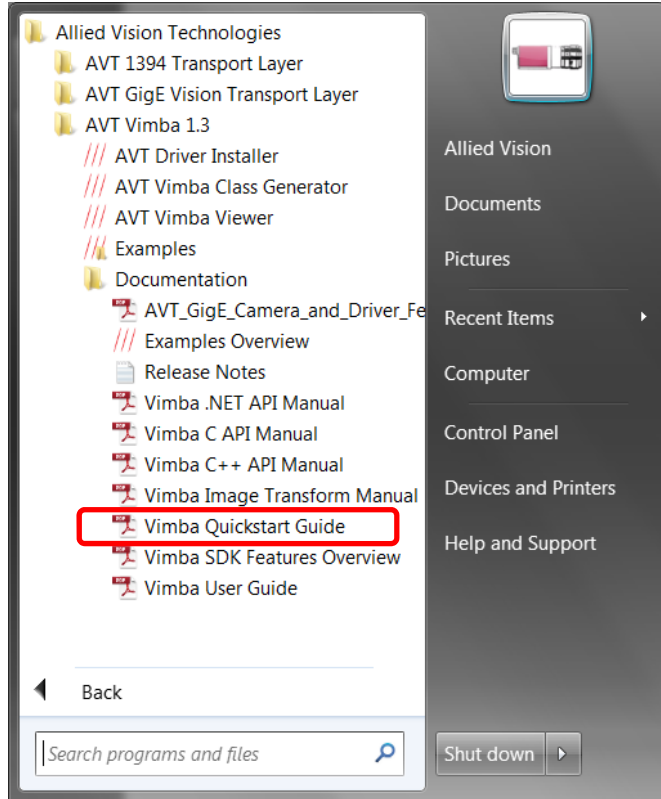
Or try out one of the many **programming examples**.



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="#">AsynchronousGrab</a></li> </ul> <p>Helpers</p> <ul style="list-style-type: none"> <li><a href="#">ForceIP</a></li> </ul>	<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="#">AsynchronousGrab</a></li> <li><a href="#">CameraFactory</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="#">ListFeatures</a></li> <li><a href="#">SynchronousGrab</a></li> <li><a href="#">AsynchronousGrab</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**

AVT SOFTWARE DEVELOPMENT KIT



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

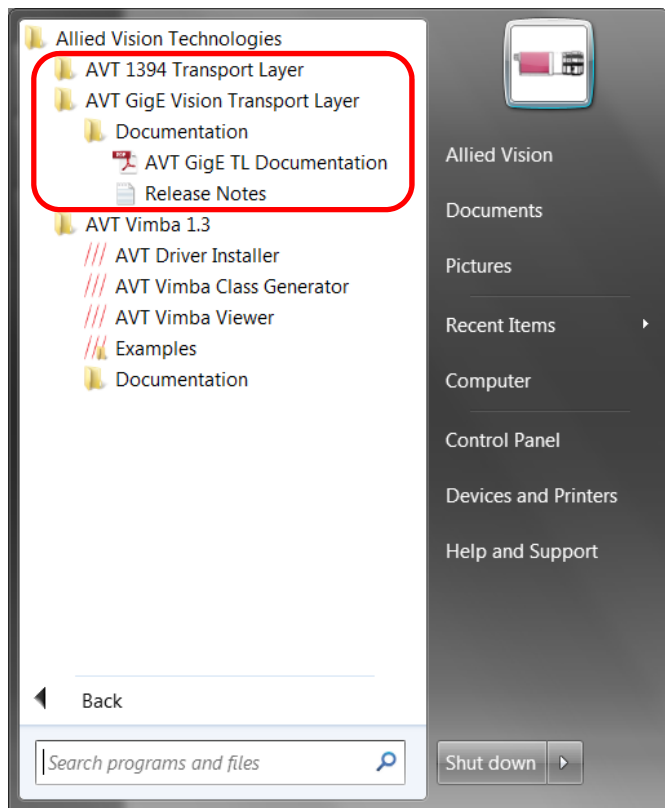
Reading order	Component	Documentation	x = necessary / o = optional				
			C	C++	.NET	IEEE 1394	GigE
1	Vimba	Vimba User Guide.pdf	x	x	x		
2	Vimba C API	Vimba C Manual.pdf	x				
	Vimba C++ API	Vimba CPP Manual.pdf		x			
	Vimba .NET API	Vimba NET Manual.pdf			x		
3	Camera Features	AVT1394TLManual.pdf				x	
		AVT_GigE_Camera_and_Driver_Features.pdf					x
4	Vimba Features	Vimba Features.pdf	x	x	x		
5	AVT Image Transform Library	AVTImageTransformManual.pdf	o	o			
6	Transport Layer	AVT1394TLManual.pdf				o	
		AVTGigETLManual.pdf					o

Table 1: Manuals for the developer

 Windows only

# VIMBA

AVT SOFTWARE DEVELOPMENT KIT



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

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

**vimba**  
AVT SOFTWARE DEVELOPMENT KIT



# Further information

Do you have any more questions?  
Our staff is more than happy to assist you.

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

Enjoy working with Vimba!



**vimba**

AVT SOFTWARE DEVELOPMENT KIT