ActiveUSB3

USB3 Vision® camera SDK

KEY FEATURES

o Acquire and display live video from one or several USB3 Vision® cameras.

o Set the desired video format, frame rate and triggering mode.

o Grab 8-, 10-, 12- or 16-bit per channel monochrome and color images.

o Perform automatic color interpolation of a raw video generated by Bayer cameras.

o Select the desired size and position of the scan area.

o Flip and rotate the live image.

o Adjust multiple camera features in real time.

o Choose among several palettes for pseudo-color display.

o Scroll and zoom live video, initiate the full screen mode.

o Utilize programmable LUTs and color correction matrix.

o Get an instant access to pixel values, pixel arrays and chunk data.

o Perform image processing on incoming video and display it in real time.

o Apply real-time running average and integration of video frames.

o Implement built-in background and hot pixel correction.

o Save images in RAW, BMP, TIFF and JPEG formats.

o Perform time-lapse capture to AVI files and image sequences.

o Utilize integrated 1-D and 2-D barcode decoders.

o Interface to third party imaging applications through the TWAIN and DirectShow drivers.

o Customization available upon request.
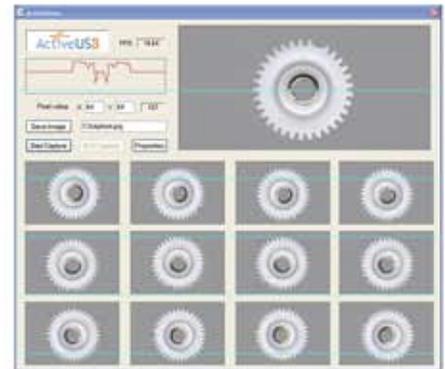
Machine Vision

Scientific Imaging

ActiveUSB3

ActiveUSB is a universal driver and hardware-independent SDK designed to provide software developers and end-users with a rapid access to USB3 Vision® industrial and scientific cameras. Just drop an ActiveUSB control onto the surface of your application and have it immediately support multiple USB3 Vision® cameras.

With ActiveUSB your application does not have to rely on a specific camera model - any USB3 Vision compliant camera will work out-of the-box in any popular development environment, such as VC++, VC#, VB, VB.NET, Delphi, Java, Powerbuilder, Mathlab, Python, LabView, QT.

ActiveGigE setup includes extensive documentation and source code samples for all supported development environments demonstrating live video capture, image processing and analysis, storing acquired images in different formats, full control over camera settings, and many more.

Camera Compatibility List*

AVT	Mako USB3 series
Basler Vision	Ace USB3 series
Baumer Optronic	MX USB3 series
IDS	uEye USB3 series
JAI	USB3 series
Matrix Vision	mvBlueFox series
NET GmbH	iCube series
Pleora Technologies	iPort U3 digital and analog engines
Point Grey Research	Flea 3 and Grasshopper 3 series
Sensor to Image	FPGA U3V engines
Sentech	STC U3V series
Toshiba Teli	BU series
Ximea	xiQ series

* ActiveUSB will work with any USB3 Vision® compliant camera
   If your camera is not on this list, please contact us or your camera
   manufacturer.

ActiveUSB Full
Available as a Developer License (includes 2 runtime licenses) or a Developer Team License (includes 10 runtime licenses)

ActiveUSB Runtime
Available in single licenses or volume license packages

A&B Software is a leading provider of advanced products and services for the industrial and scientific imaging marketplaces.

Our ActiveDcam, ActiveGigE, ActiveUSB and ImageWarp software products are used in a wide variety of application areas including industrial automation, metrology, life science, X-ray inspection, food processing, aerospace, geology, traffic and security.

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