Release Notes
SVCam Kit – SDK / Software Kit

Version	Date
V2.5.13	2024.03.07

Content

1 Release Notes V2.5.13

Components	Version	Changes to the last release
SVCapture2	2.5.13	Extend shading assistant to support new hardware.
SDK	2.5.13	Add new function SVRegisterDeviceWrite() to allow direct register access with a given offset. Upgrade GenICam from version 3.2 to version 3.4. Bug fixing on discovery when user defined name not supported.
TL GigE (win)	2.5.6	No changes.
TL USB (win)	2.5.5	No changes.
TL CL (win)	2.5.5	No changes.
TL GigE (Linux)	2.5.5	Fixed memory leak at SVStreamAcquisition-Start/-Stop
TL USB (Linux)	2.5.2	No changes.
TL GigE (macOS)	2.5.5	Fixed memory leak at SVStreamAcquisition-Start/-Stop

2 Release Notes V2.5.12

Components	Version	Changes to the last release
SVCapture2	2.5.12	Extend shading assistant to support new hardware.
SDK	2.5.11	Add missing IP address, subnet mask and MAC address to the device Info.
TL GigE (win)	2.5.6	No changes.
TL USB (win)	2.5.5	No changes.
TL CL (win)	2.5.5	No changes.
TL GigE (Linux)	2.5.4	No changes
TL USB (Linux)	2.5.2	No changes.
TL GigE (macOS)	2.5.4	No changes

3 Release Notes V2.5.11

Components	Version	Changes to the last release
SVCapture2	2.5.11	Disable command timeout for features with ICommand Interface.
SDK	2.5.10	Add user defined name to the retrieved device information.
TL GigE (win)	2.5.6	No changes.
TL USB (win)	2.5.5	No changes.
TL CL (win)	2.5.5	No changes.
TL GigE (Linux)	2.5.4	Fixed: event not properly handle timeout small as 1000ms.
TL USB (Linux)	2.5.2	No changes.
TL GigE (macOS)	2.5.4	Fixed: event not properly handle timeout small as 1000ms.

4 Release Notes V2.5.10

Components	Version	Changes to the last release
SVCapture2	2.5.10	Bug fixing on discovery when disabling all producer in the TL Settings. Remove enabling polling action in the feature tree. Bug fixing when opening camera link cameras. Add IPConfig GUI for Linux.
SDK	2.5.9	No changes.
TL GigE (win)	2.5.6	Add flag to indicate if the current data in the buffer contains image data.
TL USB (win)	2.5.5	Add flag to indicate if the current data in the buffer contains image data.
TL CL (win)	2.5.5	No changes.
TL GigE (Linux)	2.5.3	Add flag to indicate if the current data in the buffer contains image data. Add event support. Bug fixing on event handler that caused high CPU load.
TL USB (Linux)	2.5.2	No changes.

5 Release Notes V2.5.9

Components	Version	Changes to the last release
SVCapture2	2.5.9	Extend Shading Correction Assistant to support new revisions. Bug fixing when discovering multiple cameras with the same device id.
SDK	2.5.9	Add missing supported pixel format in sample projects.
TL GigE	2.5.5	No changes.
TL USB	2.5.4	No changes.
TL CL	2.5.5	No changes.

6 Release Notes V2.5.8

Components	Version	Changes to the last release
SVCapture2	2.5.8	Add Color Correction Assistant. Add Non-Uniform Shading Correction Assistant.
SDK	2.5.8	Add new function to handle Features with type SV_intfIRegister.
TL GigE	2.5.5	Add missing transport layer event. Support of pending acknowledges. Remove "SVS-VISTEK GmbH" from the driver description name. Prioritize the heartbeat communication. Upgrade sv_gev_mva_tl_x64 to support Myricom MVA with driver version 2.0 and higher.
TL USB	2.5.4	Bug fixing on U3VLib, avoid exception when closing stream after disconnecting camera.
TL CL	2.5.5	No changes.

7 Release Notes V2.5.7

Components	Version	Changes to the last release
SVCapture2	2.5.7	Bug fixing on shading correction assistant. Bug fixing on discovery when connecting multiple cameras.
SDK	2.5.6	Remove dependency to the environment variable paths., a predefined paths can be used.
TL GigE	2.5.4	Bug fixing on discovery when connecting multiple cameras. In MVA producer (sv_gev_mva_tl_x64.cti) discovery is limited on Myricom interfaces.
TL USB	2.5.3	No changes.
TL CL	2.5.5	Remove dependency to the environment variable paths, libraries can be loaded locally. Bug fixing on loading camera-XML data.

8 Release Notes V2.5.6

Components	Version	Changes to the last release
SVCapture2	2.5.6	Improvement in defect pixel and shading map assistant. Differentiate between mage lost counter and dropped frames due to the queue underrun.
SDK	2.5.6	Upgrade to GenICam version 3.2.0 (VC141_v3_2).
TL GigE	2.5.3	Bug fixing on uploading shading and defect pixel map. Bug fixing on discovery. Bug fixing on getting the correct queue underrun counter. Bug fixing in Driver (Handling first frame with missing Trailer packet). Add some frame characteristic to the buffer info. Add control channel feature to allow controlling packet resend timeout. Use the new Transport Layer SVGigETLFilterDriver and. SVGigETLWinsockDriver instead of SVGigETLFilter and SVGigETLWinsock.
TL USB	2.5.3	Bug fixing on uploading defect pixel map. Bug fixing on getting the correct queue underrun counter. Bug fixing on stop acquisition taking long time. Bug fixing in control channel.
TL CL	2.5.4	Upgrade to GenICam version 3.2.0 (VC141_v3_2).

9 Release Notes V2.5.5

Components	Version	Changes to the last release
Installer	2.5.5	Add new producer (sv_gev_mva_tl_x64.cti) compatible to Myricom adapters.
SVCapture2	2.5.5	Improvement on discovery logic. Unified SVCapture for multiple platforms. Add refresh button to the feature tree.
SDK	2.5.5	Unified SDK for multiple platforms. Bug fixing on saving raw images for packed formats. Improvement on discovery logic in sample projects.
TL GigE	2.5.2	Add new producer compatible to Myricom adapters (64-bit version). Bug fixing when streaming with third party cameras. Improvement on discovery.
TL USB	2.5.3	Improvement on discovery.
TL CL	2.5.3	No changes.

10 Release Notes V2.5.4

Components	Version	Changes to the last release
SVCapture2	2.5.4	Improvement on Discovery to support Third-Party producer. Add supporting new Pixel Formats. Improvement on histogram assistant to work with raw data. Various improvement on assistants.
SDK	2.5.4	Add supporting new pixel Formats. New Function added to retrieve stream info. Improvement on Discovery to support Third-Party producer. Improvement on SVCamSampleCSharp and SVCamMiniSampleGui samples to work with producer.
TL GigE	2.5.2	No changes.
TL USB	2.5.2	No changes.
TL CL	2.5.3	Bug fixing when opening device on specific grabber.

11 Release Notes V2.5.3

Components	Version	Changes to the last release
Installer	2.5.3	New samples for polarized cameras are added to the structure.
SVCapture2	2.5.3	Add assistants (defect pixel correction, shading correction, histogram). Add Saving images with different image types. Extend discovery module to allow using third party producer.
SDK	2.5.3	New functionalities have been added: New function to save different image types. New demo sample for polarized cameras.
TL GigE	2.5.2	Allow silent driver installation with Command-Line Options /s_uninstall and /s_install. Bug fixing on discovery.
TL USB	2.5.2	Bug fixing on discovery.
TL CL	2.5.2	Bug fixing on discovery.

12 Release Notes V2.5.2

Components	Version	Changes to the last release
Installer	2.5.2	The installer is signed to avoid blocking the installation from some antivirus software. New documents are added ("Getting started with SDK", "SVCam Kit Quick Guide").
SVCapture2	2.5.2	Bug fixing on data rate for very small images. Bug fixing on float controls decrementing the single step value.
SDK	2.5.2	Several fixes and improvements.
TL GigE	2.5.2	Bug fixing in GenTL (3rd party compatibility).
TL USB	2.5.1	Bug fixing in GenTL (3rd party compatibility). Improvement on the time needed for stopping the acquisition.
TL CL	2.5.1	Bug fixing in GenTL (3rd party compatibility). Bug fixing in CL GenTL not properly loaded.

13 Release Notes V2.5.1

Components	Version	Changes to the last release
SVCapture2	2.5.1	**New assistants added:** Sequencer, IOMUX, line Selector visualizer, Strobe controller, Lut, Event viewer.
SDK	2.5.1	**New Functions added:** SVEventRegister() SVEventUnRegiste() SVEventGetInfo() SVEventWait() SVEventFlush() SVEventKill()
TL GigE	2.5.1	Supporting events (only for GigE).
TL USB	2.5.0	No changes
TL CL	2.5.0	No changes

14 Release Notes V2.5.0

Components	Version	Changes to the last release
Installer	2.5.0	**Structure changed**: according to the following components: SVCapture (Viewer), SDk, TLGigE, TLUSB, and TLCL. Starting with version 2.5.0.
SVCapture2	2.5.0	**New Features added**: Supporting camera link Software polling. Autosave. Zoom (IN/out using keyboard)
SDK	2.5.0	**New Functions added:** SVFeatureRegisterInvalidateCB2() FeatureGetDescription() SVUtilSaveImageToPNGFile() SVFeatureListRefresh() SVDeviceLoadSettingsFromString() SVDeviceSaveSettingsToString() SVFeatureSetValueEnum() SVFeatureGetValueEnum() **New samples added**: SVCamSampleCSharp SVCamMiniSampleCSharp SVCamMiniSampleIO (enhanced IO configuration) SVCamMiniSampleGui (Display, AOI, PIV, White balance) **Bugfixing:** On SVStreamAcquisitionStart(), Number of Image to acquire can be set for a non-continuous acquisition. On SVCamSample, initialization of the flag acqTerminated
TL GigE	2.5.0	**Bugfixing**: On start acquisition (Number of Image to acquire can be set for a non-continuous acquisition).
TL USB	2.5.0	**Bugfixing**: On start acquisition (Number of Image to acquire can be set for a non-continuous acquisition On U3VLIb when freeing the resources.
TL CL	2.5.0	Supporting camera link added.

15 Release Notes V2.3.1

Components	Version	Changes to the last release
Installer	2.3.1	- remove SVU3V_SDK (not based on GenTL and GeniCam) +add SDK and samples (based on GenTL and GeniCam)
SVCapture2	2.3.1	+ add the functionality save and load camera settings. + Performance improvements. + add zoom on focus. + bug fixing when disabling Jumbo Frame. + add enabling and disabling polling for some features. + add the search box for the feature list.
SDK	2.0.0	First release. SDK dependencies: • VS2013 runtimes • GeniCam 3.0 • GenTL 1.3
GigE driver	1.5.2	No changes
USB Driver	1.2.6	No changes

16 Release Notes V2.1.5

First version of SVCapture2 based on GenTL and GeniCam.