

LV-SDS 1.95 Release notes

General

- The LVSDS driver is no more compatible with LVSDS versions older than 1.94.009.
- Windows NT/2000: Incompatibility with some old DOS applications, like edit.com, which was hanging when run in a full screen DOS box. Fixed.
- Windows 2000/XP: Fixed incompatibility of the LV-SDS driver when the PNP Os entry in the Bios settings was enabled.
- Windows. Fixed a PCI bus scan problem, which prevented Leutron Vision boards to be detected on systems where the bus enumeration is not continue.

Linux

- Support for PicProdigy Color board.
- Support for the new gcc 3.2 compiler.
- The samples in the [Daisy tutorial](#) are now distributed with source code for the Xlib, Gtk and Qt graphic environment.
- The leutron.ini initialization file could not be properly read when not in the home directory.
- Calibration parameters could not be properly stored on-board for successive reuse.

Daisy library

- Windows NT/2000: When application using LVSDS were started with the autorun feature or from the Startup group, the library loading could happen before the LVSDS kernel driver was completely loaded, resulting in not recognized boards and general application errors. The LVSDS can now wait for driver loading as specified by the [WaitDriverCount](#) and [WaitDriverDelay](#) entries in the Leutron.ini file.
- Image corruption on fast PCs.
PicPort PCI transfer parameters can now be set through the Leutron.ini entries [PPX_DMABurst](#) and [PPX_DMAThreshold](#). These parameters allow minimizing image corruption in transferring images to the main memory, concurrently with the processor memory access.
- Lengthy LVSDS library startup.
The problem appeared when a PicPort monochrome was installed. The delay was due to a hardware calibration procedure executed at every LVSDS start. The calibration is still made at least once, but the results are stored on board for successive reuse. The [PllAdjustMode](#) entry in the Leutron.ini controls the execution of the calibration routine.

- Master pixel synchronous cameras were not properly handled through the DSub connector on PicPort Monochrome models. Fixed.
- Cameras can be connected and activated even when not physically connected. See [LvCameraNode::SetLiveParam](#).
- Added [PpxDebiDelay](#) entry in the Leutron.ini configuration file, to fine-tune the hardware access on PicPort boards.
- Logging of PCI to PCI bridges reported wrong device specific data. Fixed.
- PicProdigy Color. Speed up of camera activation.
- PicProdigy Color. Fixed Svideo connector mapping.
- [AddInterruptNotify](#) allows NULL as handle, so that interrupts can be enabled and counted without notification to the application.
- PicPort digital PMC: fixed acquisition from 8+8 cameras.

Image Sequencer Dral

- In order to unify the image buffer base address collection among different boards, the application should use the [GetBufferBaseAddress](#) method, instead of directly accessing the `LvROI::BaseAddress` field.
- [Init](#) returns an error when the Sequencer Dral detects a configuration mismatch or problem during on-board initialization. Specific errors are reported in the log file.
- New flag [SqFlg_NoCameraCheck](#). Keeps not connected cameras as active, allowing to setup a Sequencer Dral configuring cameras which are not physically connected.
- New fields [EventSignal](#) and [EventEdge](#) in the Dral configuration structure to select the source of the external event.
- New configuration flags to exclude enhanced functionality for system performance. See the [Image Sequencer Dral tutorial](#).
- Added Enhanced Sequencer Dral functions
 - [GetHue](#)
 - [SetHue](#)
 - [GetSaturation](#)
 - [SetSaturation](#)
- Added Asynchronous Reset Sequencer Dral functions
 - [SetFlashMode](#)
 - [GetFlashMode](#)
- Fixed [SetCameraSelection](#) for PicPort Color, as it did not acquire properly from BNC 3 and BNC 4.
- Parallel mode with PicPort Color and 2 cameras was not working properly (no camera switch). Fixed.

Camera Editor

- In the Timing dialog box, some values were not properly saved when changing the pixel clock. Fixed.
- Added a Video Format dialog box for consistent video definitions. Removed the video format entries from other dialog boxes.

Halcon driver

- Support for [MVTec](#) Halcon 6.1, standard and parallel versions. The PicPort driver supports both 6.0 and 6.1 versions for both Windows and Linux.
- Random timeouts on heavy system loads under Linux. Fixed.
- Support for PicProdigy Color.
- Support for runtime settings of Hue and Saturation for PicPort Color boards. As for Brightness and Contrast, they can be set in the `open_framegrabber` call or through `set_framegrabber_param`.
- Fixed image distortion when the acquired line length was not modulo 4.