

CHROMASENS GmbH
Release-History for the allPIXA camera firmware
Lasted changes: February, 2016

We welcome any suggestions, questions, bug reports to: support@chromasens.de

Version 1.50

Changes / new features:

- + improved master-slave handling for encoder speed exceeding maximum scanning speed.
- + improvements in master-slave mode for switching between encoder mode and free running mode.

Minimum required CST-Version:

- + 2.6.6

Version 1.48

Changes / new features:

- + speed compensated image start in encoder mode. The optimized compensation applies to the debouncing modes LB0 and LB3 in the CST section "Image trigger signal handling"
- + improved image quality for 4k systems
- + minor bug fixes

Minimum required CST-Version:

- + 2.6.6

Version 1.44

Changes / new features:

- + integration of 1.43 in major release
- + extended encoder mode performance
- + minor bug fixes

Minimum required CST-Version:

- + 2.6.5

Version 1.43 (2k systems only)

Changes / new features:

- + improved image quality

Version 1.42**Changes / new features:**

- + master/slave synchronisation with IO signals X5-4/12 available
- + boot up of sensor at 7k allPIXA improved
- + CameraLink LVAL handling using encoder mode at maximum line speed improved

Version 1.41**Changes / new features:**

- + 2 additional reference sets for Offset and Shading correction can be stored in the camera. (totally 4 sets each)
- + Optimized variable scan width by changes on "number of pixel per scan line" does no longer effect offset and shading correction
- + Improved ROI handling area set with "number of pixel per scan line" is automatically centred to middle of sensor
- + Optimized tab balancing
- + Simplified handling of white reference mark with automatic master detection mode for white reference position
- + Horizontal binning function
- + Extended parameters for Info Block (TimeStamp, Speed2High)
- + Enhanced validation against faulty parameter values
- + Special gamma LUT for sRGB conversion at gamma selection 0.1
- + Increased limit by 2 times for max allowed integration time
- + Optimized handling of low res encoders for multiple scan lines at one encoder clock
- + Optimized multiple camera synchronization functionality (Minimum CST version to access full functionality version 2.6)

Version 1.30**Changes / new features:**

- + Internal Offset and Shading correction
- + Line shift for allPIXA 2k and allPIXA 4k up to 6 lines
- + Line trigger reduction factor
- + Enable encoder by CC Bit
- + Enable Info data in image
- + CCM Colour Conversion Matrix
- + Keystone correction
- + New mode, reduced camera link data rate for application with long cable
- + Factory default parameter stored in setting 19

Version 1.21**Changes:**

- + Parameter optimizing Camera Link interface

Version 1.20**Changes:**

- + First valid Pixel of scanline without offset (default value=0 for full image size)

New functions:

- + LinePeriod@FreeRun
- + Encoder mode incl. calculation of transport speed
- + Video output in grey mode