

# Version 6.0.0

Standard allPIXAevo 16K CoaXPress

## Component Versions

Variant	Version
Bitstream	23.0.0
Application/XML	14.1.0
Bootfile	15.1.0
Feature Reference	14.1.0
Gamma	KaxGamma03_10

## Notes

## Changes and new Features

- Support Line Counter info block
  - The Info Block Trigger Source feature is available for each line counters too. (For reset purpose)
- Extended **ColorTransformationSelector** with RGBtoMono and RGBAttoMono modes.
  - **ColortoGrey is deprecated, please use RGBtoMono enum entry instead**
    - It may be removed in future versions.
- New feature MasterSlaveOutput is added which configures the master slave output line
- Configure digital io lines only for the active flash outs and make free for other lines which can be used for any other purpose
- When changing from slave o off/master mode all triggers will be set to Off
- Changed line numbers of digital io lines of fan and internal line. (See section incompatibilities)
- Support 3D camera files and special feature handling.
- Removed all old features related to master slave.
  - They are MasterSlaveInterfaceSelector, Enable, SlaveDelayLines, AutoSelect mode
- Improved the sensor control by scanning the full DAC range.
  - Limit the DAC calibration to supported sensitivities
- Use new sensor configuration achieving now less line rate.
  - Currently the maximum line rate is set to around 65,5KHz
  - However when getting close to the maximum line rate the DSNU profile is a bit affected.
  - It is considered to achieve again a higher line rate and better quality in a future package.
  - These changes were introduced now to avoid instabilities.

## Bug Fixes

- Fixed the bug in enable/disable acquisition frame rate when setting the vsy start and stop
- Fixed Info Block for color to grey conversion use case
- Fixed the bug in configuring the encoder output mode (reverse line supression). Only takes effect if encoder is used.
- Fixed the bug in checking the run time parameter of line time during slave mode
- Fixed instability of sensor data reception.

## Incompatibilities

- The exposure time in the info block is in units of 10 nanoseconds from now.
- Removed Master slave auto select mode, slave delay lines and inetrface selector and enable features
- In digital io master slave internal line and fan line numbers are swapped
  - Previously Line10 - Fan Line and Line11 - MS Internal Line
  - Currently Line11 - Fan Line and Line10 - MS Internal Line
- Removed support for sensor sensitivity 0.
- Limited the line rate to 65,5KHz
- Due to new sensor configuration it is recommended to recreate the DSNU/PRNU

## Errata

- The Internal DSNU/PRNU creation may not work properly. Please check the result is good or not.
- In Master Slave Mode there may be a constant shift between the cameras
- The gain control is not working when gain control region is outside the ROI
- Led flash may not work properly
  - With some settings camera does not deliver any images
  - With some other settings there can be one pattern missing

## Docs

- Added new Info block entries
- Updated master slave features
- Marked Autoselect mode, master slave interface selector, enable and slave delay lines features removed from firmware version 13.0.0
- Added new device error codes in ACQ\_CTRL
- Made master slave and led flash features available for neo
- Updated digital io line source, format and mode since fan and internal lines are swapped

- Added a deprecated and removed feature list.