

Version 6.0.0

Standard allPIXAneo NXGE

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.
- Software trigger is available now.
- Support master slave and led flash features
- Improved the sensor control by scanning the full DAC range.
 - Limit the DAC calibration to supported sensitivities
- For 6K 5um Mono, there is a new sensor configuration.
 - This was introduced in order to reduce non-linearity effects.
 - The minimum line time is limited to around 5,01us (199KHz) (With ROI)
 - Minimum exposure Time 3.5us
 - Minimum gap between exposure time and line time 1.14us

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.

Incompatibilities

- The exposure time in the info block is in units of 10 nanoseconds from now.
- In digital io fan line number is changed (Previously Line9 and now it is Line10)
- The 6K Mono camera version has a new sensor configuration.
 - This may require new DSNU and PRNU references.
 - The maximum line rate in ROI mode has reduced to around 199KHz.
 - The maximum line rate in full sensor width is the same as before. Around 196KHz.
 - The minimum exposure time has increased to 3.5us

Errata

- Limitations for mono mode:
 - The Gain Control Region value may not be precisely located
 - The Gain Control Region current values, may not be precise
- 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.