

Release Notes Firmware Version 2.5.0

We welcome any suggestions, questions, and bug reports.

Please send your enquiries to: support@chromasens.de

Camera series: allPIXA evo 8K DXGE

Changes and new Features

- Added the DeviceLogLevel feature
- Support non-volatile logging for better debugging of customer issues
 - The log is accessible by the LogFile in the File Access Control.
- Exposure Time can be changed during grabbing now
- Adapted the RGBWIr_Irblock enum entry of SensorColorType feature to RGBIr
- Changed GevMACAddressConfigReg from MaskedIntReg to IntReg type, to avoid GCT/GenAPI issues
- Improved order of pixel format initialization during user set load
- Support FPGA-XADC

- Added new features for the flat field correction (DSNU/PRNU)
 - FlatFieldCorrectionCalibrationMode
 - FlatFieldCorrectionSelector
 - FlatFieldCorrectionEnable
 - FlatFieldCorrectionDataSetDescriptionReg (Will be renamed in next beta to FlatFieldCorrectionDataSetDescription)
 - FlatFieldCorrectionDisplayReference
 - FlatFieldCorrectionAvailablePlanes
 - FlatFieldCorrectionFirstPixel
 - FlatFieldCorrectionLastPixel
 - FlatFieldCorrectionStartCalibration
 - FlatFieldCorrectionStopCalibration
 - FlatFieldCorrectionCalibrationStatus

- The following features are DEPRECATED now and will be removed from Package 3.0.0. The new features to be used are given within the parentheses:
 - ImageCalibrationMode (FlatFieldCorrectionCalibrationMode)
 - DarkSignalNonUniformitySelector (FlatFieldCorrectionSelector)
 - DarkSignalNonUniformityDataSetInformation - Removed without alternative
 - DarkSignalNonUniformityAvailablePlains (FlatFieldCorrectionAvailablePlanes)
 - DarkSignalNonUniformityReferenceOutput (FlatFieldCorrectionDisplayReference)

- DarkSignalNonUniformityFirstPixelReg (FlatFieldCorrectionFirstPixel)
- DarkSignalNonUniformityLastPixelReg (FlatFieldCorrectionLastPixel)

- PhotoResponseNonUniformitySelector (FlatFieldCorrectionSelector)
- PhotoResponseNonUniformityDataSetInformation - Removed without alternative)
- PhotoResponseNonUniformityAvailablePlains
(FlatFieldCorrectionAvailablePlanes)
- PhotoResponseNonUniformityReferenceOutput
(FlatFieldCorrectionDisplayReference)
- PhotoResponseNonUniformityFirstPixelReg (FlatFieldCorrectionFirstPixel)
- PhotoResponseNonUniformityLastPixelReg (FlatFieldCorrectionLastPixel)

- LUTSelector (LUT selector is not deprecated, but some entries)
- DarkSignalNonUniformityLUT1 (FlatFieldCorrectionSelector:DSNUDataSet1)
- DarkSignalNonUniformityLUT2 (FlatFieldCorrectionSelector:DSNUDataSet2)
- PhotoResponseNonUniformityLUT1 (FlatFieldCorrectionSelector:PRNUDataSet1)
- PhotoResponseNonUniformityLUT2 (FlatFieldCorrectionSelector:PRNUDataSet2)
- LUTDatasetNameReg (FlatFieldCorrectionDataSetDescriptionReg ->
FlatFieldCorrectionDataSetDescription in next release 2.6)
- To enable a DSNU/PRNU data set use: FlatFieldCorrectionEnable

Bug Fixes

- Fixed a bug in setting the exposure Time
- Fixed a bug in bitstream concerning pins (g8 PGOOD)
- Fixed wrong calculation for min line period in TDI mode
- Update Min Line Period when configuring the TDI
- Fixed the bug to store any user set with RGBa12 pixel format
- Fixed the bug of one line missing in case of TDI mode and line period less than 14us
- Fixed a bug in user set control, concerning pixelformat
- Fixed a bug concerning false error detection during boot if the DeviceLogLevel is Warning or Error
- Fixed a bug concerning the black level control
- Fixed disabling FFC-Data-Set bug. (Could not disable wrong data set)
- Fixed the bug in checking the encoder source and trigger source parameters
- Removed "Unsigned" from 64-bit InReg node in XML, because it is not supported by GenAPI

Errata

- LED-Flashing-Control:
 - Problems are expected when Frame Trigger and Line Trigger are off.
 - Errors are expected when exceeding the minimum sequence time
- 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
- There may be issues with Gamma
- In some conditions gain auto may not work properly

Incompatibilities

Errata

- LED-Flashing-Control:
 - Problems are expected when TriggerMode is off.
 - Errors are expected when exceeding the minimum sequence time.
- 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.
- It may rarely occur that the Gain Auto fails.
- There may be issues with Gamma.
- Sometimes UserSet save may not work.
- In some conditions gain auto may not work properly.