Release Notes Firmware Version 2.4.0

We welcome any suggestions, questions, and bug reports.
Please send your enquiries to: support@chromasens.de

Camera series: allPIXA evo 8K CXP

Changes and new Features

- Support TDI(g8)
    - Support larger value range for LineDistance with RGB pixel format.
    - Added new Feature to Support different TDI Modes HighSensitivity (new), HighSNR (same like before).
    - Added to support sensor and digital TDI.
    - Default user set value for TDI is 1.
    - Make TDI feature only available for supporting hardware.
    - Only available for cameras with serial numbers greater than SN: 2278.
- Master Slave
    - Added new master slave source and autoselect source features.
    - Still keeping the old feature master slave interface enable. One can use completely new features or old features. If any one changes the status is reflected in the other one.
    - Removed saving the master slave interface enable in the user set. Soon this feature will be removed.
    - With new features the digital io i.e. LineMode and LineSource is not configured internally. It is user responsibility to configure it.
    - The deprecated features will be removed from package 3.0.0.
- Added encoder output modes PositionUp/PositionDown. Feature is available but does not work(not implemented in fpga).
- Added encoder value feature which is available only for PositionUp/PositionDown modes.

Bug Fixes

- Improvements on Automatic Gain Control.
    - Avoid invalid GCR regions after parameter change by skipping/invalidating 5 GCRs.
    - Set all the Linear Gains to 1.0 when executing Gain Auto Once for faster gain control. (For Oversaturation state this is relevant).
    - Fixed potential bug (exceeding gain limits) for continuous gain control (IsCalibrated) state.

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.