Release Notes Firmware Version 2.2.0

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

- TriggerSelector keeps its value when changing to MasterSlaveMode "Master" or "Off"
- FrameBurstStart feature is completely implemented
- Added ValidValueSet for binning feature in xml
- Added Invalidator for TriggerSelector based on MasterSlaveModeReg in xml
- Support GenCP control channel by USB connection
- Internal improvements and refactoring for Hardware code
- Internal refactoring
- Removed some error code related to the trigger source and generalized to if it is used by other trigger and in encoder control if it used by other input of encoder
- LineMode Output and LineSource other than Off is made available
- Introduced MemoryFile
- Added DeviceStatusMessage feature in xml to display the device status.
- Now error code and status code are separated.
- Added a new feature 'FrameCount' to retrieve the number of grabbed frames during acquisition period
- New LineFormat feature available
- Renamed SensorColorType to SensorColorFilter only in the display name, but still the feature name remains as SensorColorType, adapted and extended the enum entries
- Added FrameBurstStart and AcquisitionFramBurstCount feature
- Limit the height feature by AcquistionFrameBurstCount in case of using FrameBurstStart trigger
- UserSet default for TDI is set to the maximum value for mono cameras
- Checking the max payload size whenever image parameters are changed
- Added the new feature DeviceLinkSpeed
- The DeviceScanType Feature value is changed from "Areascan" to "Linescan"
- New temperature module for board temperature is supported now

Bug Fixes

- A bug related to Encoder and FrameTrigger is fixed
- The bug related to first line issue in first captured frame is solved.
- Fixed bug in configuring the digital io lines features
- Fixed the bug of exposure time in Info Block
- Fixed bug in checking the encoder source parameter
- Added UserSet invalidation to AcquisitionMode
- Master Slave Mode is working for more than two cameras

- Fixed the sensor data reception bug, which lead to occasional image data shift after boot.

Incompatibilities

Errata

- LED-Flashing-Control:
    - Problems are expected when TriggerMode is off.
    - Errors are expected when exceeding the minimum sequence time
- No images in GCT when minlinetime is set. Please use at least around 3 us greater value than the available minlinetime.
- DecimationHorizontal may lead to corrupt images, please check if your requirement works fine.
- The Internal DSNU/PRNU creation may not work properly. Please check the result is good or not.
- Master Slave Mode may not work completely fine