

## Release Notes Firmware Version 2.1.1

We welcome any suggestions, questions, and bug reports.

Please send your enquiries to: [support@chromasens.de](mailto:support@chromasens.de)

### Note

It might be that the first time booting with this package the image might be corrupt if at least 2.1.0-beta.9 has not been booted before! This is only for the first time booting with this package.

Therefore, reboot the camera after first time booting with this package to avoid errors.

### Changes and new Features

- CoaxPress CXP12 support
- DecimationHorizontalFloat feature is available
- DeviceFanEnable feature added, to control a fan connected to the camera
- Remove internal DSNU/PRNU reference capturing timeout. User has to stop it manually if required.
- FileAccessControl is revised to work also with third party application
- Replaced UserSetComment with SFNC feature UserSetDescription.
- UserSetComment feature is still available but not visible
- Adapted range of TriggerDelayLines and SlaveDelayLines feature
- Increased Accuracy of "TriggerDelayLines" feature
- ExposureTime configuration is not limited by AcquisitionLineTime if using LineStart or MasterSlaveMode
- DeviceHWCalibFileVersion feature added, to get the version of the Hardware calibration file in the camera
- Simplified the LedFlashControl configuration
- Hide LedFlashControl and EncoderControl if camera is a slave camera (MS-Mode)

### Bug Fixes

- Fixed the corrupted frame error. Sometimes camera delivered one line more or less than expected.
- Master/Slave Mode working line frequency increased
- Fixed the bug in configuring the master slave interface correctly
- Fixed the bug of the black calibration for slave camera
- Black level control failed during boot process if there is no line trigger.
- Fixed the bug of not displaying the default model name if **\*\*DeviceModelName\*\*** is not configured
- Fixed the bug when reading the *userid* from flash if flash is uninitialized
- Fixed the bug in setting the LineDistance (g8 sensor only)
- Fixed Gain initialization bug for mono cameras

- Bug in case of using Color2Grey is fixed (Mono pixel format was not displayed correctly)
- The problem with negative values for brightness/contrast feature is fixed
- Fix bug regarding reading negative float values from user setting
- Fixed the error that the register edit entries of the user set were not applied when the respective user set was loaded
- Setting the UserSetComment feature was not working for some host applications.  
Adapted the firmware to make it more flexible at this point.
- ImageCalibrationMode CalibrateDSNUInternal/CalibratePRNUInternal synchronization in transport direction is working now.
- Check EncoderSourceA/B is extended to avoid invalid configuration
- Bug fixes in LedFlashControl parametrization

### Incompatibilities

- Master/Slave cascade mode is not explicitly setable anymore  
The Master Slave interface setting external is now the former cascade mode!
- Changed the behavior of UserSetComment feature.  
Now it happens that whenever user set comment is changed for the selected user set it is not saved immediately.  
It will be saved only when UserSetSave command is executed.  
Before the user set comment of the active user set was stored when performing UserSetSave command.  
Now the displayed user set comment will be saved.
- Limit "BinningHorizontal" and "DecimationHorizontalFloat" maximum values depending on "Width"
- The minimum value for "Width" feature is increased to 16
- Now AdjustTargetValueToMaxVideo feature is not available for standard evo anymore.
- DeviceLinkHeartbeatTimeout feature is available only for gige (dxge)

### Errata

- When enabling the MasterSlaveMode-Slave and disabling again when starting acquisition only a single image will be transferred. Afterwards a reboot may be required.
- There may be sporadic distortions possible when using gamma feature
- There is problem with CXP Source Tag when using multiple connectors (bitstream 8.20.8)
- If GainControl region is outside the ROI then there is a problem while capturing images for mono mode (Color2Grey and mono cameras)
- LED-Flashing-Control:
  - The sequence start is not always correct when TriggerMode is off.

- This depends on the SequenceTime too. (Check the custom specific set up)
- In combination with MasterSlaveMode there is a shift of patterns between master and slave camera.
- This is for the case that LineStart=Off and FrameStart=On
- The GainControlRegionCurrentValue can be inaccurate when using CXP12x1 and LineDistance != 0
- There may be problems with small image width.  
We recommend to use image width >= 128px
- The GainControlRegion is not properly drawn.