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- Release-History for the CST-Program  
- CST: Camera Setup Tool  
- Last changes: November 20, 2017, Odenwald, Sczech, Bellmann  
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We welcome any suggestions, questions, bug reports:  
support@chromasens.de

Version 2.7.2 Build 11  
Tap balancing did no longer work -> fixed!  
Handling of Container-Tags fixed. Needed for communicating to connected  
XLC4 devices via an allPIXA wave

Version 2.7.2 Build 10  
Now also saving global settings into setting files  
Fixed crashes when doing tap balancing on Win10 PCs  
Corrected XLC-settings page for allPIXA wave

Version 2.7.2 Build 8  
Fixed problems for certain PCs when connecting vi9a CameraLink

Version 2.7.2 Build 7  
new parameter "Suppress Lines/Frames" added  
Refreshing actual gain parameters after white balancing and Tab  
adjustment  
Adaptations for container with wave camera

Version 2.7.2 Build 5  
Problems with connecting to camera fixed  
Adapted the simple setup view to 3D and truePIXA cameras

Version 2.7.2  
Fixed problem with saving of gain values when performing a white  
balancing inside the shading wizard  
Improved recovery times after using shading wizard  
Adapted simple setup and live value dialog for allPIXA wave  
New tags for allPIXA wave added  
Reset button added to toolbar  
New look of toolbar buttons  
The used viewer configuration will now be checked against the currently  
connected hardware. In case of a mismatch a warning will be displayed  
Switched to the current Xerces XML implementation (Speed and stability)  
Several smaller additions to tooltips and help texts  
When connected to an allPIXA pro it is possible to display the average  
contrast across the front and the rear tap.  
It is also possible to receive a complete line from the camera and  
display a line plot.  
Redesign of the Shading wizard for better usage.

Version 2.6.7 Build 1

Organisation of topics in parameter view changed to a more logical arrangement

Fixed bug in Shading wizard for grey images -> Test image function did not work properly

Fixed crash in shading wizard: Wizard did crash when testing two different sized images directly after another

Version 2.6.6 Build 5

Bug fixed when saving a setting file to an already existing one -> File was always overwritten, fixed

Problem when editing an offline setting while connected to camera.

Setting of the camera was saved instead of the offline setting -> fixed

Version 2.6.6 Build 1

When requesting a CameraLink connection, the CST will first try to establish a connection with the requested speed(if max. baud rate is not selected).

Changed default settings for extrapolation in the shading wizard.

Possibility added to save and edit setting files in the binary .mk format if the CST is in Offline mode

simplified Setting of image-trigger-input conditions (Formerly named scan condition pattern)

Possibility created to select specific channels for white balancing and gain control

Version 2.6.5 Build 1

Register edit: bug fixed when editing more than 16 registers, the single set and get buttons did not work

Pressing the F10 button did not call to "Burn settings to camera" -> fixed

Viewer settings for allPIXA pro camera adapted

Order of connection speed settings changed. Should lead to establish the camera connection in a shorter time. Also timeouts were decreased here.

Version 2.6.4 Build 2

Fixed problems with separate color channels for shading generation

Version 2.6.4

Fixed problems with interpolation mode when generating shading references  
Test shading did not work when separate images for the color channels were used for the shading reference generation

Initial gain values were not saved into the camera when a white balancing was performed

Version 2.6.3

New names for the viewer configuration files -> are now named like the equivalent cameras

System Info dialog is now available in the main menu

Version 2.6.2

Support for new camera allPixaPro.

Error in handling of erroneous IO configuration data (DV file) fixed

Display of used communication port in main dialog corrected.  
Bug fixed: Private User data were erased when sending the setting to the camera  
Error in edit color correction matrix function: positive Values smaller than 0.1 were saved wrong: e.g. 0.03 was saved as 0.3. Issue resolved.

#### Version 2.6.1

Initialisation of the dialogs was done in the wrong order. This did lead to wrong values in the analog coarse gain display -> fixed  
Stability issue in Shading wizard fixed. Software did crash on some systems -> fixed  
Error in gradient shading method fixed -> color-Channels were not treated correctly (Red and blue channel were swapped)

#### Version 2.6.0.0

Added an additional view for simple setup of the camera  
New Buttons for the Reference wizard and the Burn command added  
Start gain values are burned inside the camera automatically after performing a tap adjustment command.  
New order of the single groups inside the parameter tree to better reflect the sequence of setting the camera parameters  
Removed selection of the viewer configuration file from the startup menu. Also selection of the IP-address was removed.  
Removed the first valid pixel parameter in order to reflect the new firmware package 1.4  
Small changes in the reference wizard. Removed unnecessary pages and options.  
Extended functionality no longer visible for users outside Chromasens -> functionality was too confusing  
Master-slave mode for the allPIXA camera now selectable

#### Version 2.5.3.8

On some systems the CST would crash after closing, did rework the shut down procedure  
Secured Register edit dialog to prevent from writing to AFE-registers or similar  
Fixed error when using the spin button for vertical resolution on the encoder page: display turned empty.  
Copy&Paste and using Tab did not work in the Register edit dialog anymore -> fixed  
Removed crashes in Shading wizard  
Fixed Crash on systems with RTL read direction(e.g. hebrew)  
New function for asynchronous WR command added

#### Version 2.5.3.7

Fixed Crash under XP32: when the register edit dialog was open and the user performed a minimize/maximize action the program would crash  
Removed some memory leaks

#### Version 2.5.3.6

Fixed incompatibilities with older cameras like ALEOS.(crashes could happen when burning parameters)  
User level management in the IO-configuration view was corrected.  
Virtual COM-ports are now supported by the CST

#### Version 2.5.3.5

Sending of "Update Initial with current gain values" did no longer work.  
Fixed now.

Some unnecessary elements were shown in the Shading wizard  
Removed deadlock in Shading wizard when the tab balancing failed  
The values obtained by doing a tab balancing in the shading wizard will  
now also be burned to flash if selected.

#### Version 2.5.3.4

Crash in Shading wizard eliminated

#### Version 2.5.3.3

Problems with spin elements for floating value solved

#### Version 2.5.3.2

Eliminated some more stability issues  
Added possibility to display the parameters with camera type specific  
text  
IO-config was not updated when a .set-file was loaded to view parameters  
offline

#### Version 2.5.3.1

Changed the order of the selections in the shading wizard  
Register edit dialog no longer stores the last settings when exited by  
CANCEL  
Improved stability by doing a proper clean-up of the progress dialog and  
the termination of different threads

#### Version 2.5.3.0

Colour conversion matrix can now be edited  
Four different CCMs can be selected  
Internal reference generation (Shading and offset) included  
HSI messages can be displayed in additional window  
Corrected the insert mode  
CST will automatically try to re-establish lost connections when they are  
detected when trying to send data  
Setting number 19 can no longer be changed -> factory default  
Disabled elements were not sent to the camera -> fixed

#### Version 2.5.2.2

Minimized traffic between camera and Pc in order to avoid problems with  
certain frame grabbers.  
With greater data packets problems with data overflows might occur if the  
frame grabber does not provide receive buffers with at least 256 bytes in  
the serial communication.  
Fixed problems with display of negative float values: needed for keystone  
correction parameters

#### Version 2.5.2.1

Added image display for each element of a var-tag  
Key-stone feature and images added  
New button in Toolbar added to request the camera state  
Encoder page tool tips are displaying HSI-tags now when in GURU-mode  
No error message is produced any more after the sending of an DR-command

Shading wizard offers possibility to store the setting before changing settings according to the needs of the reference generation.  
Shading wizard: removed crash when white balancing failed and the user chose to cancel the SHR-Wizard

Version 2.5.2.0

New error classes added for the allPIXA camera  
Cleaned up some elements in the configuration

Version 2.5.1.9 Beta

Encoder page adapted to allPIXA -> some elements were accessible in certain modes when they should not be accessible  
Fixed Bug in creation of DV-File for the IO-configuration

Version 2.5.1.8 Beta

Problems with IO-Config solved -> Some changes would not be saved correctly  
Some adaptations to allPIXA viewer configuration done

Version 2.5.1.7 Beta

Free configurable Live view added, display may be controlled depending on the user level  
New line period feature included  
Fixed problem when sending .set files to the camera. Content is now displayed correctly in the download dialog.  
Rare Crashes for the progress dialog fixed  
Added some more explanations inside the shading wizard

Version 2.5.1.6 Beta

Added the possibility to perform white balancing and tap adjustment in the Shading wizard  
Changes in the encoder-view: enabled a new encoder mode for the allPIXA  
Display of used HSI-Tags in Guru-mode is enabled now.  
2 Register Edit dialogs were displayed: fixed

Version 2.5.1.5 Beta

Fixed crashes when trying to send without a camera connected (Problem occurred on XP32)  
Error handling improved when connection to the camera was lost  
New image for white reference illustration  
Moved Vertical image resolution to the encoder page -> value is only needed for the "Continue Update mode" of the encoder  
Fixed issues with wrong positioning of the tree widget in the setup values view when resizing the window.

Version 2.5.1.4 Beta

Display of error strings corrected

Version 2.5.1.3 Beta

Display of Master button failed in certain cases -> fixed  
Some minor plausibility checks in Shading wizard

Version 2.5.1.2 Beta

Rearranged display of allPIXA parameters  
Range check is now done when the edit field lost its focus

Master button for fields with multiple entries implemented  
Corrected Shading wizard: When trying to set the camera into reference acquisition mode, the wrong tags were sent  
Fixed several cases where the error handling was not implemented correctly  
When 2 CST programs were open, only one register edit could be used -> fixed  
Possibility to display help images into the setup values created

#### Version 2.5.0.3 Beta

Fixed Problems with the file-list dialog -> did crash sometimes  
Cancel of file lists is working properly  
Arrangement of entry-fields in the gain settings changed  
Changed timeouts during connection procedure -> faster connection sequence to the camera  
Switched cancel and OK button in the connection dialog

#### Version 2.5.0.2 Beta

Fixed problems with long wait times when connecting via RS232  
Bug in Bootstrap procedure fixed

#### Version 2.5.0.0 Beta

Support of GIGE-cameras is provided  
Clear settings command introduced  
Adaptions for allPIXA encoder modes done  
Bug with window positions fixed when running CST not in maximized window  
Stabilized serial communications over RS232