

roboception

Roboception GmbH | July 2024

SGM[®] Producer

CHANGELOG



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1 24.07.0 (2024-07-24)

1.1 Improvement and Fixes

- Fixed passing timeout for discovery of devices through SGM producer to transport layer
- Added invalidators for PTP offset and status parameters in GenICam nodemap
- Waiting for 200 ms until proceeding after unexpected exceptions to throttle down in case of errors
- Ensure that last error is properly set

2 24.04.1 (2024-05-27)

2.1 Improvement and Fixes

- Fixed applying self calibration offset also to manual calibration
- rc_calib now suggests recalibration if self-calibration counter > 0
- The stereo module now automatically re-triggers image acquisition when software trigger is enabled and if it skips images due to auto exposure adaptation
- Providing camera firmware version in DeviceFirmwareVersion parameter instead of duplicating DeviceVersion
- Fixed namespaces of custom parameters in nodemap and increased size of DeviceManufactureInfo to 48 bytes
- rc_viewer now uses low quality for computing depth images on startup when running without GPU and images are bigger than 3 Mpixel

3 24.04.0 (2024-04-19)

3.1 New Features

- Added binning for rc_viscore
- Added trigger support for rc_visard NG
- Added automatic software retriggering for getting internally needed images, e.g. for HDR or if Out1 is set to ExposureAlternateActive

3.2 Improvement and Fixes

- Increased image timeout for rc_visard to 1.1 s and report timeout as warning instead of error
- Suppress errors when setting TriggerActivation and ensure consistency by re-applying
- Change timeout message from error to trace level
- Renaming of manual and public changelog for consistency

4 24.01.0 (2024-01-09)

4.1 New Features

- Added SynchronizedAlternateComponents mode to parameter AcquisitionMultiPartMode
- Calibration (rc_viscore only)
 - Added parameters RcCalibrationFlip for mirroring the annotated calibration images
 - Added RcCalibrationAutoAccept and ChunkRcCalibrationNextPose to support calibration via robot
 - Added calibration image flipping, auto accept and next pose feedback to rc_calib tool
- Manual
 - Describing all proprietary GenICam parameters in manual
 - Added description of proprietary GenICam calibration interface

4.2 Improvement and Fixes

- Fixed not delivering images when HDR is turned on right after startup
- Added smoothing of input images for stereo when matching is done in full resolution, which reduces image noise and can lead to significant improvement
- Return PTP offset of left camera instead of worst case offset as also timestamp is taken from left camera
- Fixed wrong rpath in TGZ packages

5 23.10.0 (2023-10-24)

5.1 Improvement and Fixes

- Much faster adaptation of auto exposure from overexposed images for rc_viscore camera

6 23.07.0 (2023-07-25)

6.1 New Features

- rc_check: Added possibility to set some defaults for rc_viscore that is stored in calibration file on the camera

6.2 Improvement and Fixes

- rc_check, rc_calib and rc_viewer: Use relative rpath for finding libraries under Linux to permit relocating directory
- Fixed issues for using Matrix Vision producer as transport layer
- Added printing device version and info as debug on opening the connection
- Added printing used system filenames to debug log output

7 23.04.1 (2023-04-28)

7.1 New Features

- Added LineInverter, RcLineRatio and ChunkRcLineRatio for rc_viscore

7.2 Improvement and Fixes

- Fixed not loosing first SW/HW trigger after switching trigger mode on (rc_viscore)

8 23.04.0 (2023-04-20)

8.1 Improvement and Fixes

- rc_calib: Fixed sometimes not accepting save button in rc_calib tool
- rc_viewer changes for rc_viscore:
 - Added more controls for trigger
 - Added possibility to invert the out1 signal
 - Added possibility to reduce the output signal width

9 23.01.2 (2023-02-23)

9.1 Improvement and Fixes

- Fixing performance and memory issue of rc_viewer tool that occurred with rc_viscore as sensor

10 23.01.1 (2023-02-23)

10.1 New Features

- Added hardware and software triggering for rc_viscore
- All tools (rc_check, rc_calib and rc_viewer) are now available as AppImage for Linux x86_64

10.2 Improvement and Fixes

- Pre-selecting depth computation in low quality for rc_viscore if no GPU is available
- Added storing backup of rc_viscore calibration and license with rc_check tool
- Minor fixes and updating of manual

11 23.01.0 (2023-01-25)

11.1 New Features

- Added rc_viewer tool for live 3D visualization and testing
- Allow changing gain when using HDR mode
- Added controlling HDR mode on rc_visard (only available with rc_visard firmware \geq 23.01.0)

11.2 Improvement and Fixes

- Improved switching between HDR and other exposure control modes
- Fixed seeing sometimes projector pattern in images without projector in ExposureAlternateActive mode
- Fixed rc_check responding wrongly with no access instead of missing in some cases

12 22.10.1 (2022-11-22)

12.1 New Features

- HDR auto exposure mode for rc_viscore
- Added GenICam parameters to set link throughput limitation for rc_viscore
- Setting link throughput limit to current link speed as default (currently only for Linux)
- Added possibility to set link throughput limit in rc_calib tool

12.2 Improvement and Fixes

- Clarified output of rc_check tool

13 22.10.0 (2022-10-14)

13.1 New Features

- Added support for Ubuntu 22.04 LTS

13.2 Improvements and Fixes

- Minor performance improvements

14 22.07.2 (2022-08-11)

14.1 New Features

- Added TLDisplayName to the nodemap of the system module

14.2 Improvements and Fixes

- Added table with GPU memory and FPS to manual
- Increased default frame rate for rc_viscore from 8 Hz to 9 Hz
- Single and multi frame acquisition now returns with the correct number of requested images
- Under Windows, restrict search for transport layers by default to rc_genicam_api sub-directory

15 22.07.1 (2022-07-21)

15.1 Improvements and Fixes

- Increased limit for maximum exposure time from 20 ms to 30 ms in Out1High and AdaptiveOut1 auto exposure mode

16 22.07.0 (2022-07-15)

16.1 Improvements and Fixes

- Implemented gamma parameter for rc_visard (if rc_visard firmware version \geq 22.07.0)

17 22.04.2 (2022-05-30)

17.1 Improvements and Fixes

- Fixed finding libraries under Windows
- Added version for ARM64

18 22.04.1 (2022-05-11)

18.1 Improvements and Fixes

- Set Gamma to 1 in rc_calib program as calibration grid detection relies on linear mapping.

19 22.04.0 (2022-04-26)

19.1 New Features

- New tool for checking connection and configuration of rc_viscore sensor (rc_check)
- rc_visard and rc_viscore sensors serve as dongle, i.e. USB dongle not needed any more
- Added parameter Gamma for controlling gamma factor for rc_viscore sensors and using default of 0.5

19.2 Improvements and Fixes

- Make package installation relocatable by specifying the transport layer paths at runtime
- Fixed bug with changing calibration states, limited size of annotated calibration image and limited auto exposure time
- Showing min/max error during verification of calibration in rc_calib
- Fixed switching of calibration and monocalibration radio buttons
- Fixed possibility to change Gain during auto exposure
- Fixed TL type for rc_viscore

20 22.01.0 (2022-01-18)

20.1 New Features

- Support for new rc_viscore sensor
- Calibration program (rc_calib) for rc_viscore sensor

20.2 Improvements and Fixes

- Use AcquisitionAlternateFilter only if ExposureAlternateActive is set for out1
- Limiting maximum exposure time to 20 ms in Out1High and AdaptiveOut1 mode
- Changed way of limiting memory for stereo matching
- Explicitely testing rc_visard for IOControl license to improve error message in log file
- Fixed auto_exposure_adapting to report 0 if further adaptation is not possible

21 21.10.0 (2021-10-23)

21.1 New Features

- Added GenICam parameter DepthExposureAdaptTimeout

21.2 Improvements and Fixes

- Fixed internal single frame trigger timestamp
- Added some debug log output for single shot stereo
- Fixed always complaining about pending trigger
- Fixed crashing when connection to rc_visard is interrupted
- Fixed disabling of depth smoothing
- Removing prefix rc_ from IDs and combining internal interfaces of same type

22 21.07.0 (2021-07-16)

- First stable version of producer for rc_visard

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CHANGELOG

Roboception GmbH

Kaflerstrasse 2
81241 Munich
Germany

info@roboception.de
www.roboception.com

Tutorials: <https://tutorials.roboception.com>

GitHub: <https://github.com/roboception>

Documentation: <https://doc.rc-visard.com>

<https://doc.rc-viscore.com>

<https://doc.rc-cube.com>

<https://doc.rc-random.com>

Shop: <https://roboception.com/shop>

For customer support, contact

+49 89 889 50 790
(09:00-17:00 CET)

support@roboception.de

