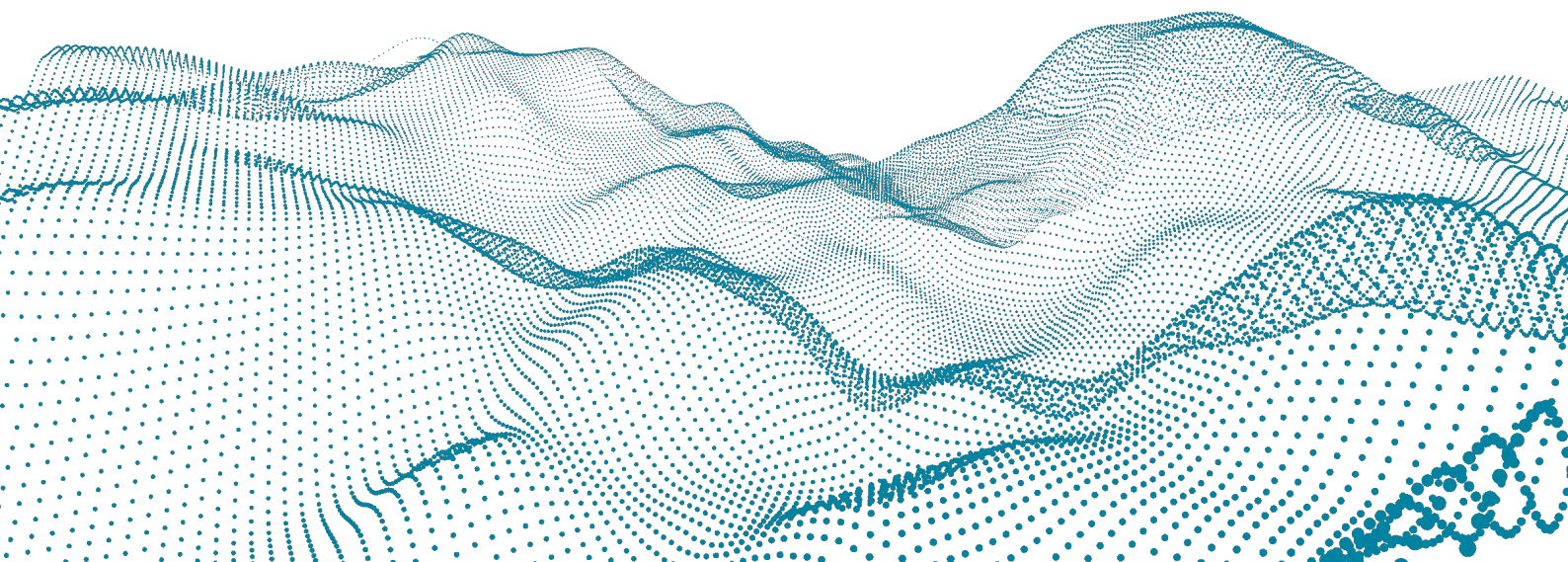


# roboception

Roboception GmbH | February 2023

## SGM<sup>®</sup> Producer

### CHANGELOG



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## 1 23.01.2 (2023-02-23)

### 1.1 Improvement and Fixes

- Fixing performance and memory issue of rc\_viewer tool that occurred with rc\_viscore as sensor

## 2 23.01.1 (2023-02-23)

### 2.1 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

### 2.2 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

## 3 23.01.0 (2023-01-25)

### 3.1 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)

### 3.2 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

## 4 22.10.1 (2022-11-22)

### 4.1 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

### 4.2 Improvement and Fixes

- Clarified output of rc\_check tool

## 5 22.10.0 (2022-10-14)

## 5.1 New Features

- Added support for Ubuntu 22.04 LTS

## 5.2 Improvements and Fixes

- Minor performance improvements

# 6 22.07.2 (2022-08-11)

## 6.1 New Features

- Added TLDisplayName to the nodemap of the system module

## 6.2 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

# 7 22.07.1 (2022-07-21)

## 7.1 Improvements and Fixes

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

# 8 22.07.0 (2022-07-15)

## 8.1 Improvements and Fixes

- Implemented gamma parameter for rc\_visard (if rc\_visard firmware version  $\geq$  22.07.0)

# 9 22.04.2 (2022-05-30)

## 9.1 Improvements and Fixes

- Fixed finding libraries under Windows
- Added version for ARM64

# 10 22.04.1 (2022-05-11)

## 10.1 Improvements and Fixes

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

## 11 22.04.0 (2022-04-26)

### 11.1 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

### 11.2 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

## 12 22.01.0 (2022-01-18)

### 12.1 New Features

- Support for new rc\_viscore sensor
- Calibration program (rc\_calib) for rc\_viscore sensor

### 12.2 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
- Explicitly 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

## 13 21.10.0 (2021-10-23)

### 13.1 New Features

- Added GenICam parameter DepthExposureAdaptTimeout

### 13.2 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

## 14 21.07.0 (2021-07-16)

- First stable version of producer for rc\_visard

# roboception

SGM<sup>®</sup>Producer

CHANGELOG

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**GitHub:**

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**Documentation:**

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

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

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

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