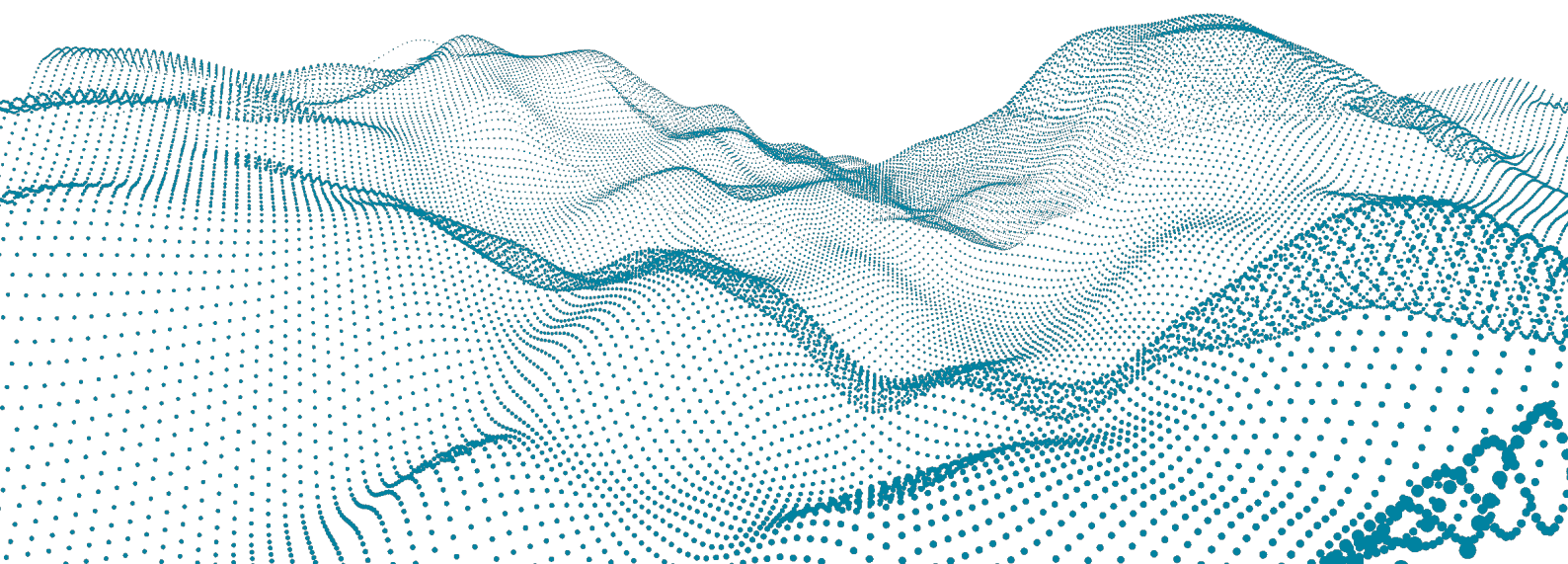


# roboception

Roboception GmbH | April 2023

## SGM<sup>®</sup> Producer

### CHANGELOG



## Contents

<b>1</b>	<b>23.04.1 (2023-04-28)</b>	<b>2</b>
	1.1 New Features . . . . .	2
	1.2 Improvement and Fixes . . . . .	2
<b>2</b>	<b>23.04.0 (2023-04-20)</b>	<b>2</b>
	2.1 Improvement and Fixes . . . . .	2
<b>3</b>	<b>23.01.2 (2023-02-23)</b>	<b>2</b>
	3.1 Improvement and Fixes . . . . .	2
<b>4</b>	<b>23.01.1 (2023-02-23)</b>	<b>2</b>
	4.1 New Features . . . . .	2
	4.2 Improvement and Fixes . . . . .	2
<b>5</b>	<b>23.01.0 (2023-01-25)</b>	<b>2</b>
	5.1 New Features . . . . .	2
	5.2 Improvement and Fixes . . . . .	2
<b>6</b>	<b>22.10.1 (2022-11-22)</b>	<b>3</b>
	6.1 New Features . . . . .	3
	6.2 Improvement and Fixes . . . . .	3
<b>7</b>	<b>22.10.0 (2022-10-14)</b>	<b>3</b>
	7.1 New Features . . . . .	3
	7.2 Improvements and Fixes . . . . .	3
<b>8</b>	<b>22.07.2 (2022-08-11)</b>	<b>3</b>
	8.1 New Features . . . . .	3
	8.2 Improvements and Fixes . . . . .	3
<b>9</b>	<b>22.07.1 (2022-07-21)</b>	<b>3</b>
	9.1 Improvements and Fixes . . . . .	3
<b>10</b>	<b>22.07.0 (2022-07-15)</b>	<b>3</b>
	10.1 Improvements and Fixes . . . . .	4
<b>11</b>	<b>22.04.2 (2022-05-30)</b>	<b>4</b>
	11.1 Improvements and Fixes . . . . .	4
<b>12</b>	<b>22.04.1 (2022-05-11)</b>	<b>4</b>
	12.1 Improvements and Fixes . . . . .	4
<b>13</b>	<b>22.04.0 (2022-04-26)</b>	<b>4</b>
	13.1 New Features . . . . .	4
	13.2 Improvements and Fixes . . . . .	4
<b>14</b>	<b>22.01.0 (2022-01-18)</b>	<b>4</b>
	14.1 New Features . . . . .	4
	14.2 Improvements and Fixes . . . . .	4
<b>15</b>	<b>21.10.0 (2021-10-23)</b>	<b>5</b>
	15.1 New Features . . . . .	5
	15.2 Improvements and Fixes . . . . .	5
<b>16</b>	<b>21.07.0 (2021-07-16)</b>	<b>5</b>

## 1 23.04.1 (2023-04-28)

### 1.1 New Features

- Added LineInverter, RcLineRatio and ChunkRcLineRatio for rc\_viscore

### 1.2 Improvement and Fixes

- Fixed not loosing first SW/HW trigger after switching trigger mode on (rc\_viscore)

## 2 23.04.0 (2023-04-20)

### 2.1 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

## 3 23.01.2 (2023-02-23)

### 3.1 Improvement and Fixes

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

## 4 23.01.1 (2023-02-23)

### 4.1 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

### 4.2 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

## 5 23.01.0 (2023-01-25)

### 5.1 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 >= 23.01.0)

### 5.2 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

## 6 22.10.1 (2022-11-22)

### 6.1 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

### 6.2 Improvement and Fixes

- Clarified output of rc\_check tool

## 7 22.10.0 (2022-10-14)

### 7.1 New Features

- Added support for Ubuntu 22.04 LTS

### 7.2 Improvements and Fixes

- Minor performance improvements

## 8 22.07.2 (2022-08-11)

### 8.1 New Features

- Added TLDisplay Name to the nodemap of the system module

### 8.2 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

## 9 22.07.1 (2022-07-21)

### 9.1 Improvements and Fixes

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

## 10 22.07.0 (2022-07-15)

## 10.1 Improvements and Fixes

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

## 11 22.04.2 (2022-05-30)

### 11.1 Improvements and Fixes

- Fixed finding libraries under Windows
- Added version for ARM64

## 12 22.04.1 (2022-05-11)

### 12.1 Improvements and Fixes

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

## 13 22.04.0 (2022-04-26)

### 13.1 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

### 13.2 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

## 14 22.01.0 (2022-01-18)

### 14.1 New Features

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

### 14.2 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

## 15 21.10.0 (2021-10-23)

### 15.1 New Features

- Added GenICam parameter DepthExposureAdaptTimeout

### 15.2 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

## 16 21.07.0 (2021-07-16)

- First stable version of producer for rc\_visard

# roboception

SGM<sup>®</sup>Producer

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

