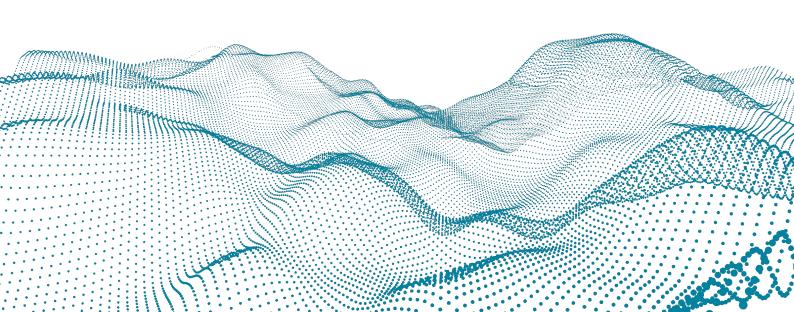
roboception

Roboception GmbH | May 2024

rc_visard_ng 3D Stereo Sensor

FIRMWARE CHANGELOG



Status: May 2024

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1 24.04.1 (2024-05-08)

1.1 Improvements and Fixes

- Camera (rc_camera):
 - Limit max exposure time to 23ms and set that as default.
 - Fixed reporting out1 reduction without delay when camera trigger is on.
 - Fixed turning off triggering and resetting exposure time and gain when enabling / disabling temporary exposure settings (for camera calibration).
- All rc_reason detection modules:
 - Trigger camera if needed (i.e. when no depth image needed, but camera in trigger mode).
- BoxPick+Match (rc_boxpick)':
 - Fix crash in grasp computation in some corner cases when object is partly outside the image.
- · WebGUI:
 - Minor fixes and improvements.
 - Disable exposureAdaptTimeout on DepthImage page when in Continuous mode.
 - Bring back progress bar on template and CAD element upload.

2 24.04.0 (2024-04-23)

2.1 New Features

- Camera (rc_camera):
 - Support for triggering camera (software or hardware) via new parameters:
 - * acquisition_mode
 - * trigger_source
 - * trigger_activation
- · WebGUI:
 - New collision check visualization: Show contact point and provide collision category (in collision with LoadCarrier, Matches or PointCloud, etc.) in 3D visualisation for all rc_reason modules.

2.2 Improvements and Fixes

- TagDetect (rc_april_tag_detect, rc_qr_code_detect):
 - Allow setting size also when no ID or only family is given and allow size filtering also in these
 cases.
- LoadCarrier (rc_load_carrier):
 - Improve detection for some corner cases.
 - Add detection timeout of 25s
- BoxPick+Match (rc_boxpick):
 - Allow grasps only on unoccluded item surface.
- WebGUI:
 - SilhouetteMatch: Draw unchecked grasps in yellow color.
 - Gripper: keep global element and TCP pose when changing the parent

3 24.01.1 (2024-03-11)

3.1 Improvements and Fixes

- Ensure gRPC server can always start by adding port to reserved ports.
- Don't scale down visualization images.
- Hand-Eye Calibration (rc_hand_eye_calibration):

- Forcing detection of whole grid again as partial detection could result in degraded calibration in some corner cases. Instead exclude overexposed grid points from calculation.
- Excluding grids if more than 16 calibration points (i.e. 4 squares) are over-exposed.
- EKI Bridge (rceki_bridge):
 - Log received and sent messages with info level so they show up in WebGUI log for ease of KRL program debugging.
- REST-API:
 - Prevent manually setting time to a date before firmware build time.
- WebGUI:
 - Minor improvements.

4 24.01.0 (2024-01-29)

first public release

roboception

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GitHub: https://github.com/roboception
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