

HALCON Interface 1.2.14

Release Notes

The new HALCON driver 1.2.14 for PhoXi 3D Scanner is available from February 2020. It is built with PhoXI API 1.2.14 and compatible with HALCON 12, 13, 18 and 19. The main changes are:

- New getters and setters for functionalities introduced in PhoXi Control 1.2 release
- Changed interface versioning to correspond with PhoXi API version
- New HDevelop, C++ and C# examples
- Added logging and throwing exceptions on errors
- Extended documentation

New Getters and Setters

- See the list of getters and setters for functionalities introduced in Halcon Interface 1.2.14

Parameter	Setter	Getter
3droi_camera_space_max	✓	✓
3droi_camera_space_min	✓	✓
3droi_point_cloud_space_max	✓	✓
3droi_point_cloud_space_min	✓	✓
ambient_light_suppression	✓	✓
available_param_names	x	✓
calibration_camera_matrix	x	✓
calibration_distortion_coefficients	x	✓
calibration_focus_length	x	✓
calibration_pixel_size	x	✓
calibration_volume_only	✓	✓
camera_only_mode	✓	✓
coding_quality	✓	✓
coding_strategy	✓	✓
confidence	✓	✓
coordinate_space	✓	✓
custom_trans_rotation_matrix	✓	✓
custom_trans_translation_vector	✓	✓

get_specific_frame_timeout	✓	✓
laser_power	✓	✓
marker_scale	✓	✓
max_camera_angle	✓	✓
max_halfway_angle	✓	✓
max_projector_angle	✓	✓
maximum_fps	✓	✓
min_halfway_angle	✓	✓
normals_estimation_radius	✓	✓
num_buffers	x	✓
recognize_markers	✓	✓
resolution	✓	✓
robot_trans_rotation_matrix	✓	✓
robot_trans_translation_vector	✓	✓
surface_smoothness	✓	✓
texture_source	✓	✓
use_grab_image_async_as_trigger_only	✓	✓
wait_for_grabbing_end	✓	✓

Examples

Example	Hdevelop	C#	C++
PhoXi Simple	✓	✓	✓
PhoXi Parameters	✓	x	x

Other Changes

- Disconnect call (`close_framegrabber`) now closes API connections and disconnects the device from PhoXi Control (instead of just stopping the acquisition and keeping the connection in the PhoXi Control)
- Interface versioning changed to correspond with PhoXi API version
- Added acquisition interface logging
- Errors are thrown on acquisition interface errors
- Included FindHalcon.cmake module