

O3DClientHelp

Introduction

Welcome to O3DClient! This tool provides basic visualization and processing of PMD image data. All image processing like detection of surface characteristics is controlled via plugins. O3DClient works with ifm O3D cams and sensors (64x50 pixel matrix) or recorded sequence files. Please note, that the software is still in beta phase. We will not assume any liability for errors.

Get image data from ifm O3D Sensor

- Go to the [Camera](#) tab
- Click the [Connect](#) button
- At the [Capturing](#) group box click [Start](#) to activate the sensors image server
- Navigate to the [Direct3D Viewer](#) to watch the stream

Record image data from ifm O3D Sensor

- Make sure that the image server is running (see above)
- Click [File > New Sequence...](#) at main menu bar
- Create a new *.seq File
- Hit Space to start recording the stream

Get image data from a sequence file

- Make sure that the image server is stopped (see above)
- Click [File > Open Sequence...](#) at main menu bar
- Choose a *.seq File
- Hit Space to start playing the sequence

Export Single Image

If there is any image data available you can export a single image as a set of *.dat files (xyzi). Just click [File > Export Single Image...](#) and choose a folder for the files. Due to the ASCII format and tab separated values these files are suitable to use in MATLAB or Excel.

Plugin Manager

A plugin takes no effect until it is activated in the [Plugin Manager](#) tab. You can activate a plugin either by checking it in the list on the left side or use the [Starter](#) group box on the right. The included Curb Detection plugin will detect road curbs. If required it will send result data (distance & angle of cam to curb etc.) to the selected COM port.

Advanced Mouse Control

Hold down the left mouse button while moving the cursor over the Direct3D panel to rotate the scene. Use the mouse wheel to zoom the scene. During playback drag the sequence progress bar (main menu) to jump to another file position.

Keyboard Shortcuts for Direct3D Viewer

- Page Up: Zoom in
- Page Down: Zoom out
- Escape: Return from full screen
- Space: Play/Record/Pause
- Left: Play last frame
- Right: Play next frame
- Hold down Left/Right: Rewind/FastForward

Additional Help @ +49 51 36 80 96 15

Mo – Do 09:30 – 17:30, Fr 09:30 - 16:00