



# Configuration Files

## Technical note

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## 1 Introduction

*Keysens* runtime software checks, on start up, for several configuration files that affect some of its characteristics or display options. These configuration files may be present or not. If not, a default effect is assumed by the program.

All configuration files are in the folder: `../cfg`

The route is relative to the folder where the *runtime* is installed.

The configuration files and their meanings are as follows:

Configuration file	Meaning
logo.png	PNG image containing a logo of the user or the application. Displayed in the runtime window.
port.cfg	Text file containing the port number that the <i>runtime</i> listens as server for uploading and downloading projects. It also contains a configuration flag for setting the communications with robots and HMIs as clients or as servers.
disable.cfg	Empty text file, the <i>runtime</i> only check if the file exists, not its content. If it exists, the modification of all cameras and algorithms parameters is disabled.
test_images_list.cfg	Text file containing a list of ppm images, one per line. These images will substitute the images acquired by the first camera connected to the system, camera 1, every time the camera finishes an acquisition. The images used for substitution are the ones in the list starting with the first one, following with the second one and so on until end of list. Then the first image will be used again.
test_images_list_CAM2.cfg	Text file containing a list of ppm images, one per line. These images will substitute the images acquired by the second camera connected to the system, camera 2, in the same way as explained for camera 1.
test_images_list_CAM3.cfg	Text file containing a list of ppm images, one per line. These images will substitute the images acquired by the third camera connected to the system, camera 3, in the same way as explained for camera 1.

## 2 Configuration files description

A further explanation on the configuration files follows.

### 2.1 logo.png

This is an image in PNG format. If exists, the *runtime* displays it above the results image. If not, no image is displayed. The image is intended to be a logotype of the user or the

application. Its maximum size is  $440 \times 48$  pixels. If it is smaller, will be display as it is. If it is bigger, will be trimmed starting from the top-left corner.

## 2.2 port.cfg

This file contains information related to the communication with the configuration program *vDevelop*, with robots and with HMIs:

- The port number that the *runtime* listens for its TCP/IP connection as a server for uploading and downloading projects from the configuration program *vDevelop*.
- A flag that indicates if the cameras are clients (flag = 0) of servers (flag = 1) for communicating with robots and HMIs.

Each item is written in plain text in one line. The file should contain only two lines, the first line is the port number (ex: 4000) and the second line is the flag (0 or 1).

If this file is not found or it does not contain a valid port number, port 3000 is used. If the flag is not found, value 0 is assumed.

## 2.3 disable.cfg

This file does not contain any information, the *runtime* only checks for its existence.

If it exists, the modification of all cameras and algorithms parameters is disabled.

If it does not exist, the modification of parameters in real time is enabled in the *runtime*. This is useful for improving the quality of the images taken by the cameras, or for tuning the vision application by changing the values of some algorithm parameters.

## 2.4 test\_images\_list.cfg, test\_images\_list\_CAM2.cfg, test\_images\_list\_CAM3.cfg

These configuration files are used for test purposes, they contain a list of image locations. Images are expected in PPM format, this is a standard non-compressed colour format.

If any of the files are present, the *runtime* will substitute the images acquired by the corresponding camera by one image of the list in the corresponding file, using *test\_images\_list.cfg* for the first camera (camera 1), *test\_images\_list\_CAM2.cfg* for the second camera (camera 2), and using *test\_images\_list\_CAM3.cfg* for the third one (camera 3).

Images in the lists are used starting by the first one and going sequentially to the last one, then starting by the first one again. All the test images, if found, are loaded in memory when the *runtime* starts. If an image is not found, it is skipped.

The test images lists are intended for the developer to be able to test applications in real time without the need of really having the camera in the test bed or in the final machine, nor having the objects to image.

## 3 Comments

If you experience any problems with this document or want to give us feedback, please email us at [info@keysens.com](mailto:info@keysens.com).