

# IDPhoto Folder Watcher

---

ver. 1.0.0	28/09/2021	initial version
ver. 1.1.0	01/10/2021	added verbose option, folder watch and skipping files features
ver. 1.2.0	08/10/2021	yaml default values changed, verbose and closing description fixed, example added
ver. 1.3.0	16/12/2021	jpg_quality and fails_folder settings added

## Introduction

IDPhoto Folder Watcher is a command line application and is designed to process image files in a folder in order to bring all images to the required ID settings. The application processes all image files in a folder with extensions .jpg, jpeg, .png. After existing files are processed the application watches the folder for new files, and processes every new file.

## Command line syntax

The overall command line syntax is as follows:

```
idphotofw.exe [--verbose] <source dir> [<destination dir>]
```

[--verbose] - optional parameter, specifies application output. If used, the application will show messages on every processing and other important events and messages.

<source dir> - mandatory parameter, specifies the folder that will be processed and in which the original files will be replaced with processed ones. Processing parameters will be taken from the idphotofw.yaml file located in the <source dir> folder. If the file is not found in the folder, the default parameters will be used.

<destination dir> - optional parameter, specifies the folder where the processed files will be placed. If the parameter is specified, then the original files will not be replaced and will remain unchanged.

Examples:

```
idphotofw.exe D:\Images\Original\
```

All image files in the D:\Images\Original\ folder will be processed and replaced with processed images. The processing parameters will be taken from the idphotofw.yaml file located in the D:\Images\Original\ folder. Processing information not be shown.

```
idphotofw.exe "C:\Documents and Settings\Default\Documents\"
```

Same as above, but the folder path included spaces so quotes must be used.

```
idphotofw.exe D:\Images\Original\ D:\Images\Result\
```

All image files in the D:\Images\Original\ folder will be processed and the results will be saved in D:\Images\Result\. All files in the D:\Images\Original\ folder will remain unchanged. The processing

parameters will be taken from the idphotofw.yaml file located in the D:\Images\Original\ folder. Processing information not be shown.

```
idphotofw.exe --verbose D:\Images\Original\ D:\Images\Result\
```

Same as above, but processing information will be visible to the user on application command prompt.

## Closing application

Please notice that after application start you will not see command prompt as application continues processing and watching for new files in folder until closing.

There are several ways to close the application, you can choose any of the following:

- Press Ctrl+C on keyboard, application stops immediately. You can get confirmation if the command file is used to start an application.
- Click the X close button in the top-right corner of the command interpreter window.
- Use the keyboard shortcut key Alt+F4 to close a command interpreter window.

## Configuration file format

Additional processing parameters can be set in the idphotofw.yaml configuration file, which must be located in the processed folder. The file has a text format, the parameters are set each in a separate line with the format

```
parameter_name: value
```

### Parameters List

zoom	Zoom is a ratio of face area to the area of the resulting frame specified as a percentage. Positive integer value from 1 to 100.	default 50
width_ratio	This setting allows specifying the ratio of the resulting image by width. Positive integer value.	default 3
height_ratio	This setting allows specifying the ratio of the resulting image by height. Positive integer value.	default 4
horizontal_offset	This setting allows specifying the position of the center of the face area on the result image by horizontal axis. Positive integer value from 1 to 100.	default 50
vertical_offset	This setting allows specifying the position of the center of the face area on the result image by vertical axis. Positive integer value from 1 to 100.	default 42
skip_existing	Specifies if existing files in the folder will be processed or not. Previously processed files will not be processed in any way. Value "true" means that existing files will be skipped and will not be processed, only new added files will be processed. Value false means that all files in the folder will be processed, neither existing or new added.	default false

jpg_quality	Specifies JPEG compression ratio used for saving result files. Higher value means higher quality of the resulting file and larger file size. Positive integer value from 1 to 99.	default 94
fails_folder	This setting allows moving of the files where face wasn't found to the specified folder. Original file where face wasn't found will be moved, folder with original files will consist only of successfully processed files. If this option specified than moving is turned on, if this option missed from config file moving is turned on and all original files stay in the same folder.	by default transfer turned off

If the face wasn't found on the image it will be skipped, no changes to the original file will be made. File will be added to the already processed list and will not be processed again.

Examples:

```
zoom: 50
width_ratio: 1
height_ratio: 1
horizontal_offset: 50
vertical_offset: 50
jpg_quality: 80
fails_folder: C:\Images\Fails\
```

With these settings on the result image the face will fill 50%, the centre of the face will be at the result image center, and the result image will be square by size.

Existing files in the folder will be processed at application start, as no skip\_existing parameter included and default value is false.

JPEG files saved with quality ratio 80. All images where the face wasn't found will be moved from the original folder to the "C:\Images\Fails\" folder.

```
zoom: 40
width_ratio: 3
height_ratio: 4
horizontal_offset: 50
vertical_offset: 40
skip_existing: true
```

With these settings on the result image the face will fill 40%, the centre of the face will be at the result image center on the horizontal axis, but the centre of the face vertically will be closer to the top edge and farther from the bottom edge of the result image (this allow to better fit shoulders on result image), and the result image will have 3:4 ratio so the result image height will be greater than the width.

Existing files in the folder will not be processed at application start, as skip\_existing parameter set to true.

## Folder Watching

After the application starts it also starts to watch the folder for new files. Any new supported image files placed in the folder will be processed. Please notice that it can be processed with delay as there is processing query.

## Skipping Already Processed Files

If file processing completed successfully it will be added to "idphotofw.processed" file in the folder. Further this file will be skipped from processing, it will never be processed again. Please notice that only filename is stored, if the file will be deleted from the folder and a new file with the same filename added, it will be also skipped from processing. As "idphotofw.processed" has a common text format it can be easily edited if needed. It is possible to locate and delete string with desired filename to stop skipping the file from processing.

## Application Log File

Application creates and stores also log file in the processing folder. Log file "idphotofw.log" included processing and folder watching information.