inPhoto ID SLR

version 2

User Guide

IDPhotoCapture

2017

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Introduction

Dear User,

Thank you for choosing inPhoto ID SLR!

inPhoto ID SLR is an application for identification photo preparation which includes camera control functions. It works with **Canon SLR** (reflex) digital cameras. **inPhoto ID SLR** allows you to manage and to automate the whole cycle of ID photo preparation. The program does the following: remote camera control, quickly and accurately detects a face on image, build and crop frame in accordance with user`s settings, save image in a folder or transfer to applications supporting the TWAIN protocol (Adobe Photoshop, Incardex, Asure ID, CardFive, ID Works, EPISuite etc.).

Main features:

Camera control, image capturing and identification photo preparation are the main functions of **inPhoto ID SLR**.

Remote Camera Control allows controlling the shooting process and the key settings from a PC. **inPhoto ID SLR** includes such camera settings as white balance, image quality and metering mode. Shooting control is also possible using voice commands.

"Live" Preview allows viewing the live image on PC screen in real time using current camera and processing settings. All changes of camera settings, the frame building settings and image resolution settings are displayed in the preview immediately.

Face detection and Crop settings allow to find the face area on image and to crop on this basis the future ID photo in accordance with user`s settings. The software forms the future shot based on such image settings as: photo size, aspect proportions, frame type, etc.

Image Correction allows adjusting image brightness, contrast, gamma, and sharpness to obtain the greatest result.

TWAIN image capture allows transfer of prepared identification (ID) photos via TWAIN protocol directly to the target applications. The TWAIN protocol is supported by such apps as: **Adobe Photoshop**, **Incardex**, **Asure ID**, **CardFive**, **ID Works**, **EPISuite** etc.

Save to File allows you to save acquired images to file and set desired file name and folder manually or automatically. The file name consist of a prefix entered by the user, the shooting date and image number. The folder may include the current date that allow to create an easy-to-use archive of electronic images located on the disk.

We hope that this guide will help you quickly familiarize yourself with the application and make use of the full range of its capabilities.

Chapter 1. Start of Work

The contents of the chapter are as follows:

Installation

Starting

Activation

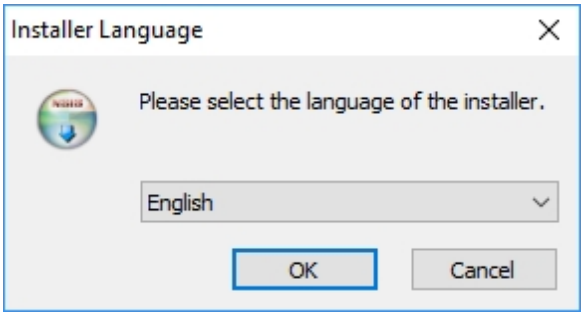
Camera Connection

Installation

The **inPhoto ID SLR** application is being installed on a computer online using the installation wizard.

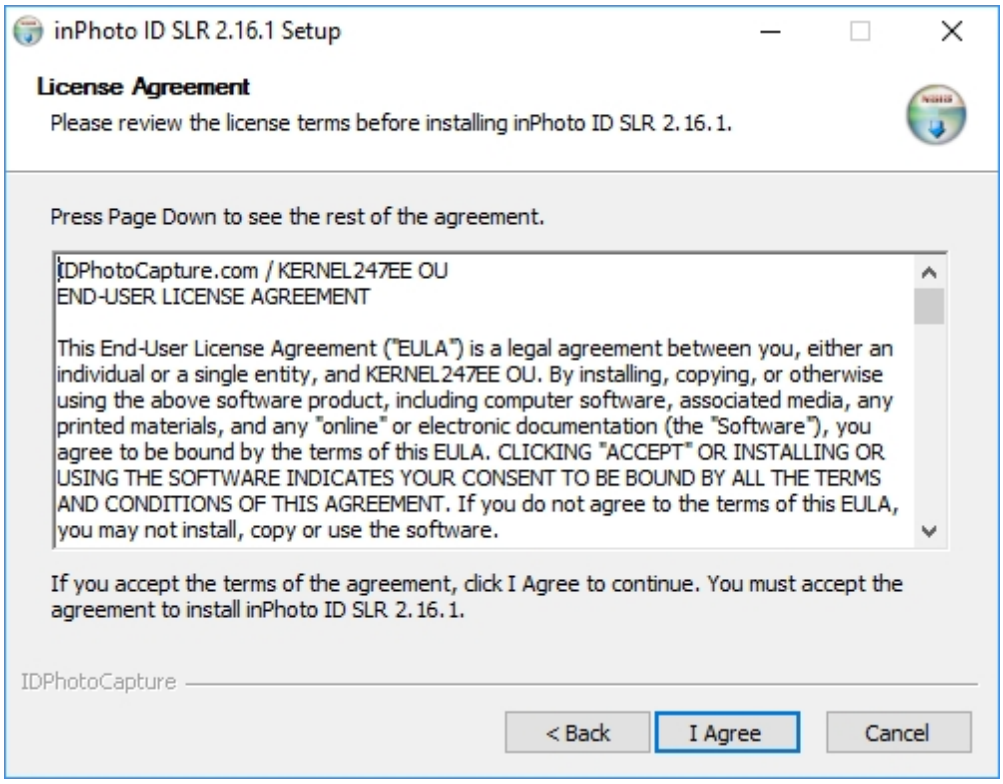
Run the installation package file (a file with exe extension) to start the installation process.

Step 1. Select the language of the application interface in the window appeared and press **OK.**

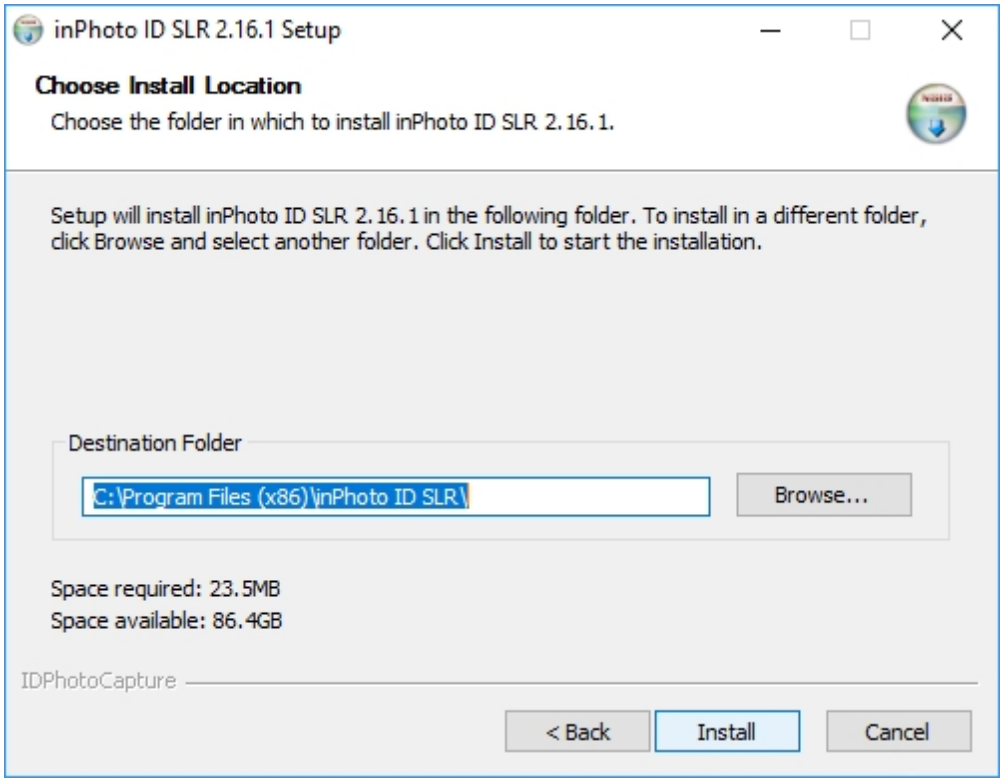


Step 2. In the next window, the wizard recommends you to close all the active applications. This will enable the application to update system files without restarting the PC. Press **Next** to continue the installation.

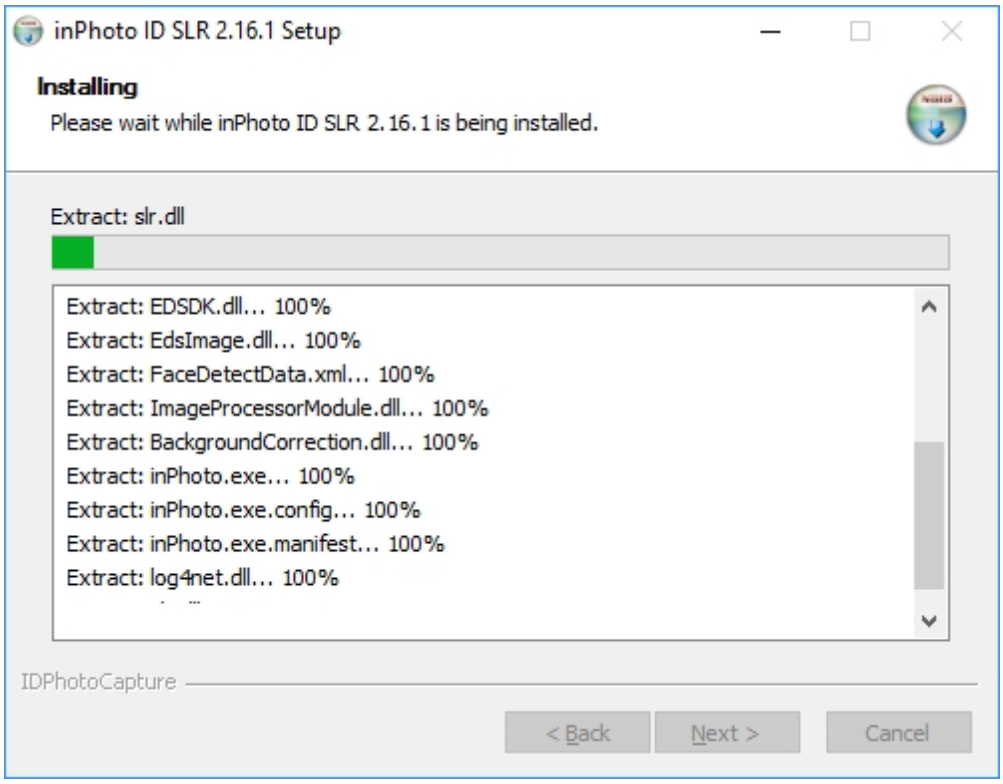
Step 3. At this step, you should read the licence agreement. Read it carefully and press **I agree** if you agree with all the clauses. Once this is done, the installation of the application will continue. If the licence agreement is not accepted, the installation will be cancelled.



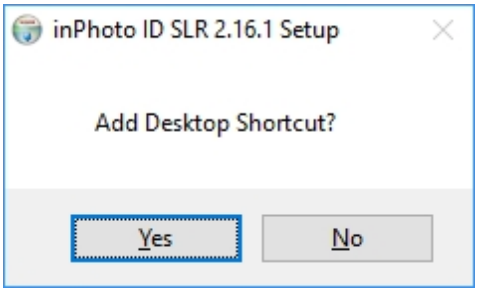
Step 4. At next stage, the wizard offers selecting a folder to which the application will be installed. Press **Install** to start installing the application.



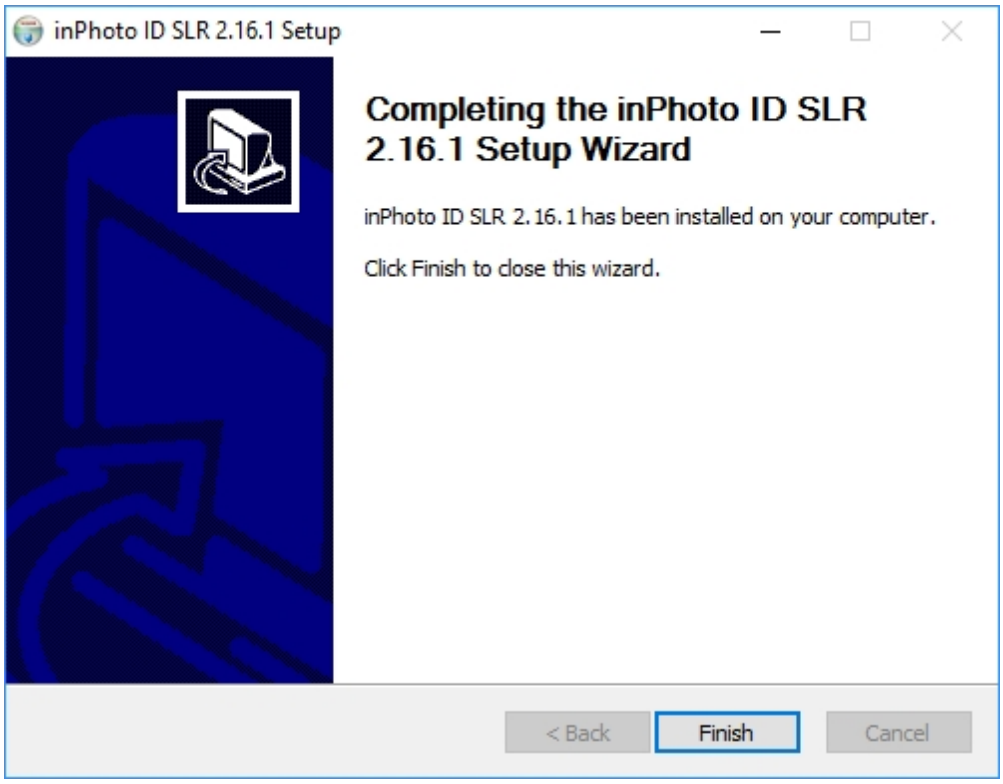
Step 5. Then, the application installation window will appear. The installation process may take some time. Please wait until it has completed. After the installation has completed, the wizard will automatically move to the next step.



Step 6. The next action the wizard will offer creating a desktop shortcut for **inPhoto ID SLR**. The application shortcut is added to the **Start** menu and to the list of **TWAIN** drivers in any case during the installation. If you also wish to add the shortcut to the desktop, press **Yes**, if the shortcut in the **Start** menu is enough, press **No**.



Step 7. This is the last step of the wizard. Here it informs you that the application has been installed on the computer. Press **Finish** to complete the installation.



Done! **inPhoto ID SLR** has been installed.

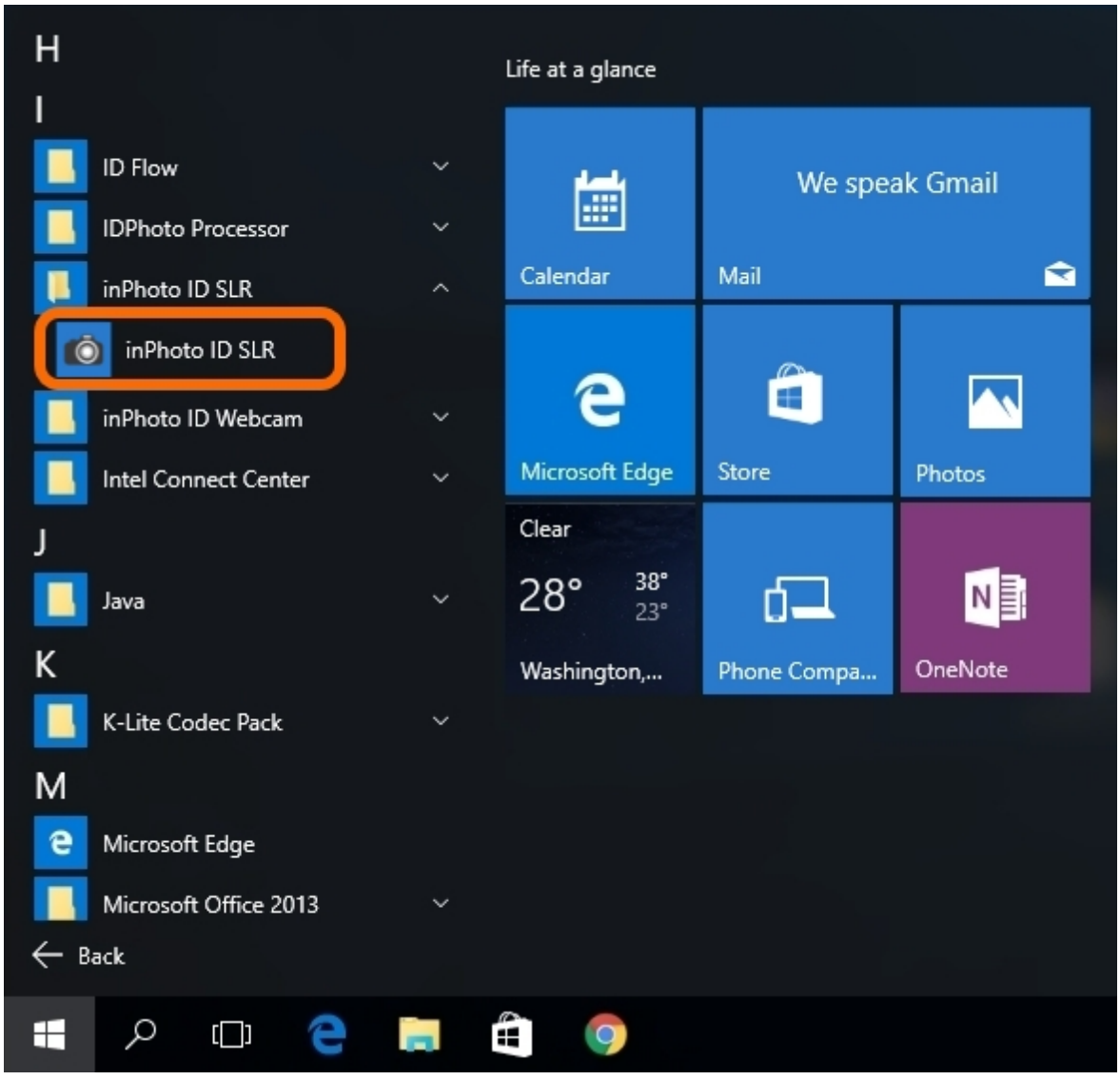
The next **Starting** section describes how to start up **inPhoto ID SLR**.

Starting

inPhoto ID SLR can be started in several ways:

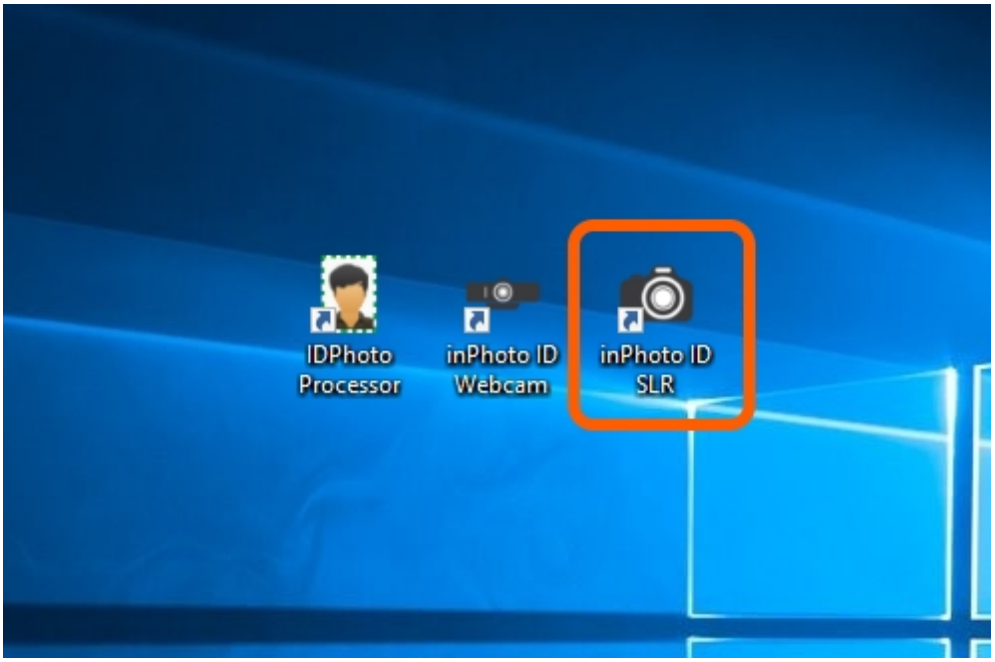
1. Starting up inPhoto ID SLR from Start Menu.

For doing this, enter the **Start** menu -> **All Apps** -> **inPhoto ID SLR** group menu and choose **inPhoto ID SLR**.



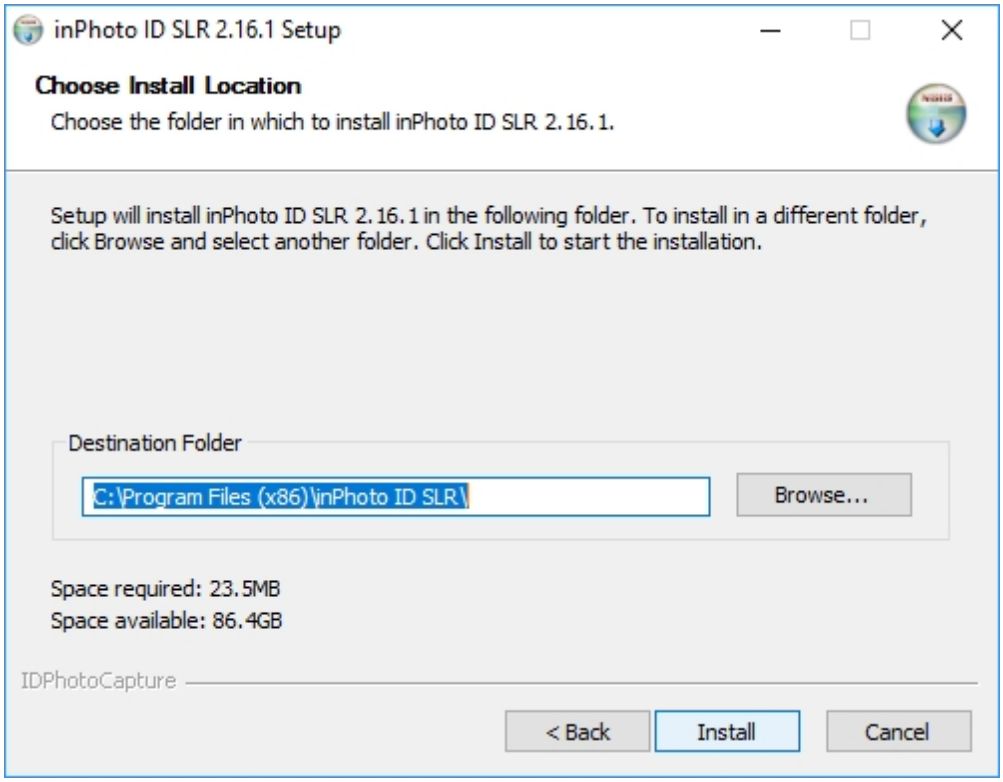
2. Starting up inPhoto ID SLR from the Desktop.

This start-up option is possible if you have chosen to add the desktop shortcut for the application during the installation. In such a case, just find the shortcut on the desktop and double-click it using the left mouse button.



3. Starting up inPhoto ID SLR from the Application Folder.

Open the folder to which the application has been installed (this is **C:\Program Files\inPhoto ID SLR** by default) find **inPhoto.exe** and start up it by double-clicking.



4. Starting up inPhoto ID SLR via TWAIN Connection.

inPhoto ID SLR can also be started using a third-party application via **TWAIN** connection. This mechanism is described in more details in the **TWAIN** chapter.

Activation

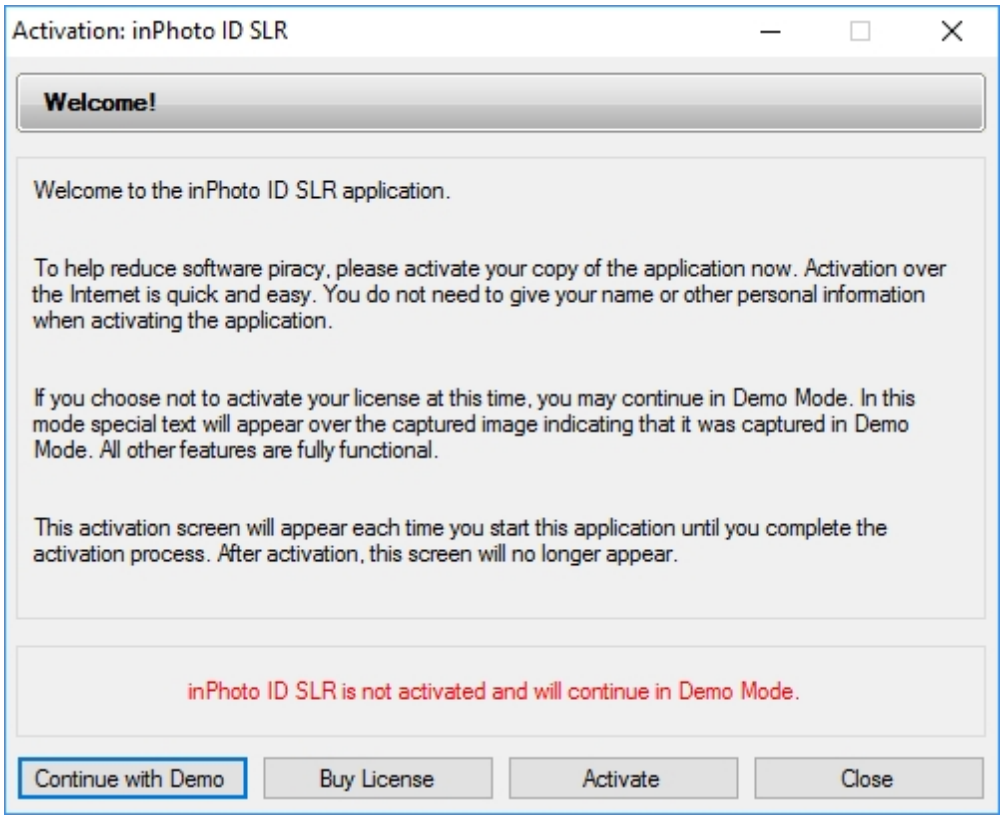
When starting up **inPhoto ID SLR** for the first time, the activation wizard window will appear. Here you can choose to:

- Use the application in demo mode
- Purchase the licence
- Activate the licence
- Close the application

All other details on using the application in the demo mode and on purchasing the licence are described further in the **Demo Mode** and **Purchase of the Licence** chapters.

If you have already purchased the licence, its activation will confirm the authenticity of the installed copy and open access to all the application features.

There are two ways of licence activation: **Online** and **Offline**. If the Internet connection is available on the PC where the application is installed on, the **Online** activation will be selected automatically; if not, then use the **Offline** activation. The activation procedure is described in details further in the **Activation Online** and **Activation Offline** chapters.



The contents of the section are as follows:

[Demo Mode]

[Purchase of the Licence]

[Activation Online]

[Activation Offline]

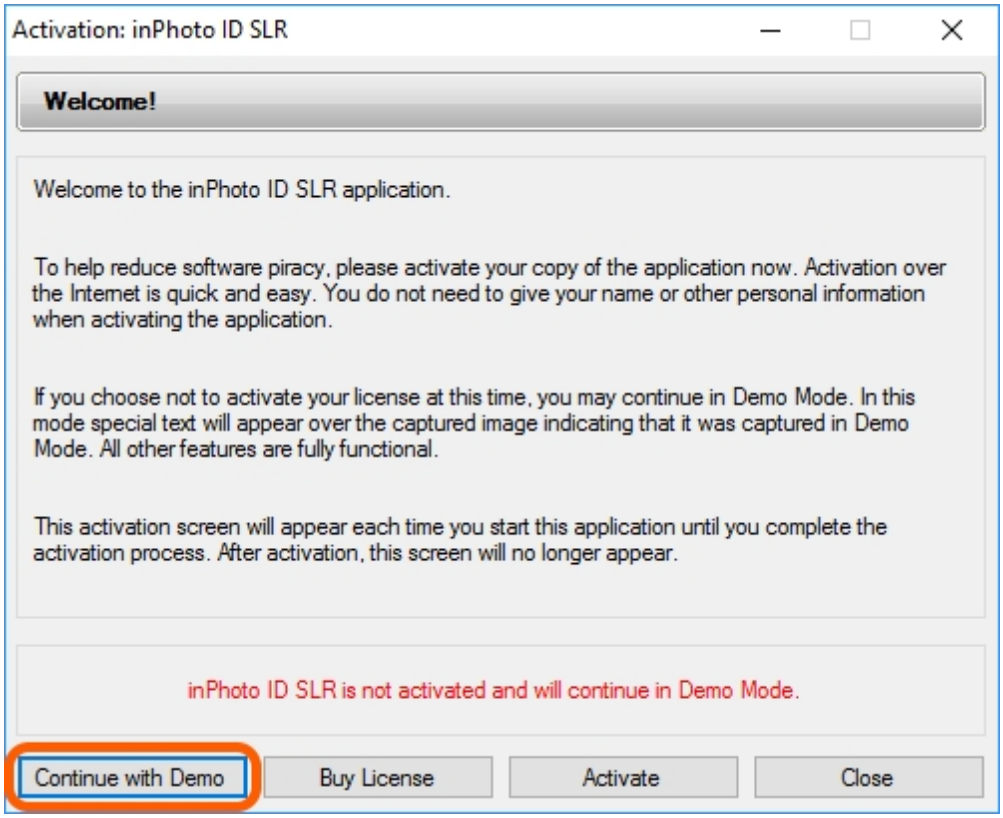
Demo Mode

The user has access to all the application features in the demo mode.

There is a limitation: all received images will contain a demo sign.

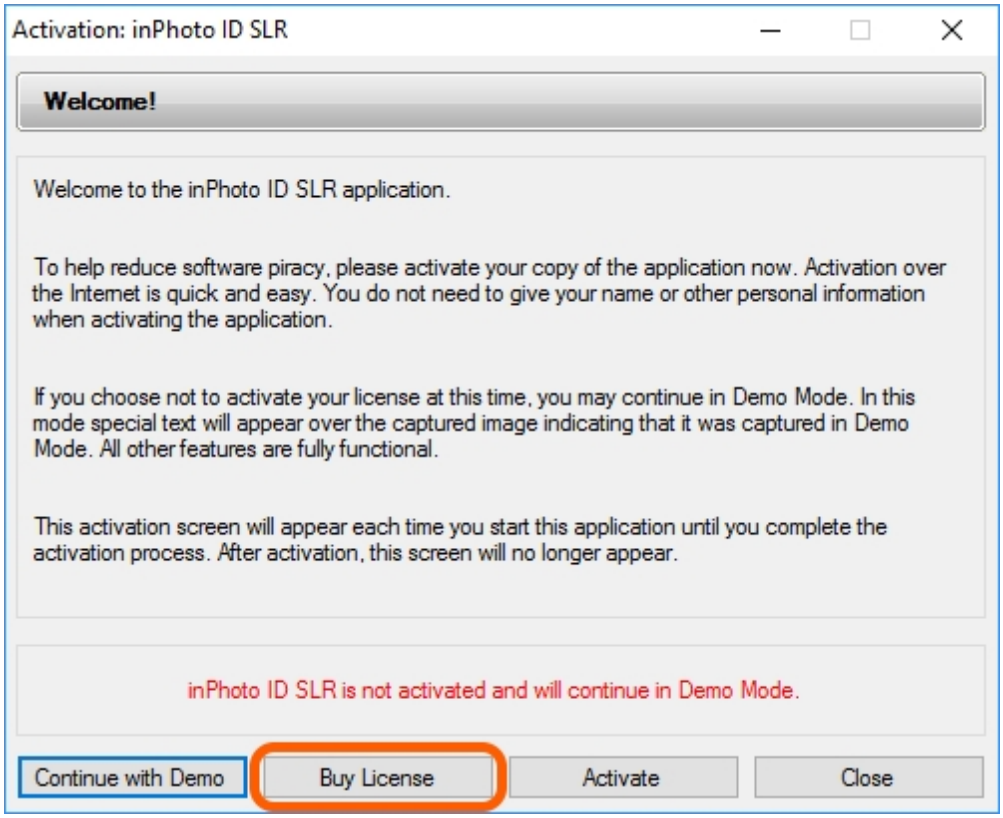
The demo mode allows trying the application at work and assessing its capabilities before purchasing.

To start up the program in demo mode, press the **Continue with Demo** button.

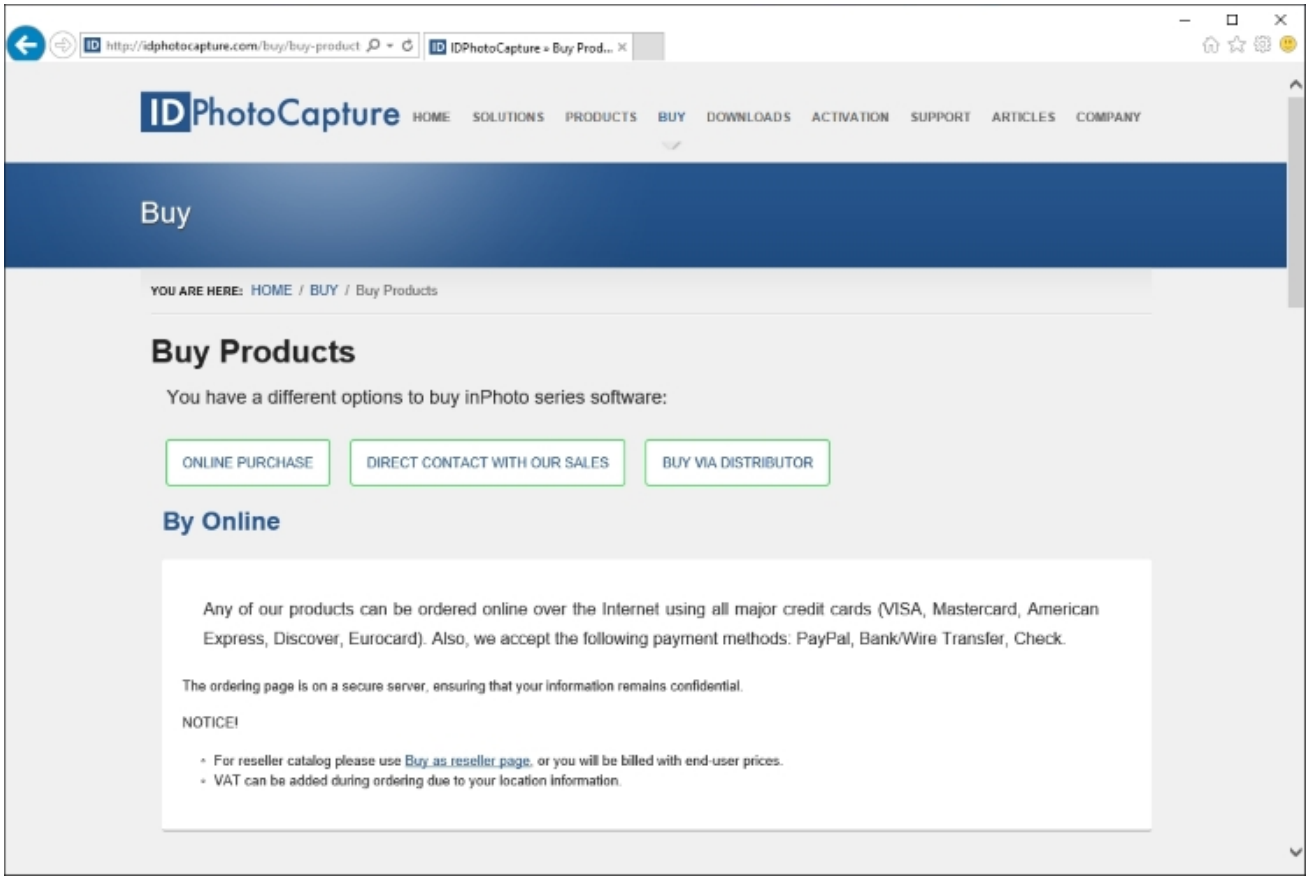


Purchase of the Licence

If you wish to activate the application, but have not purchased the licence yet, choose the **Buy License** button.



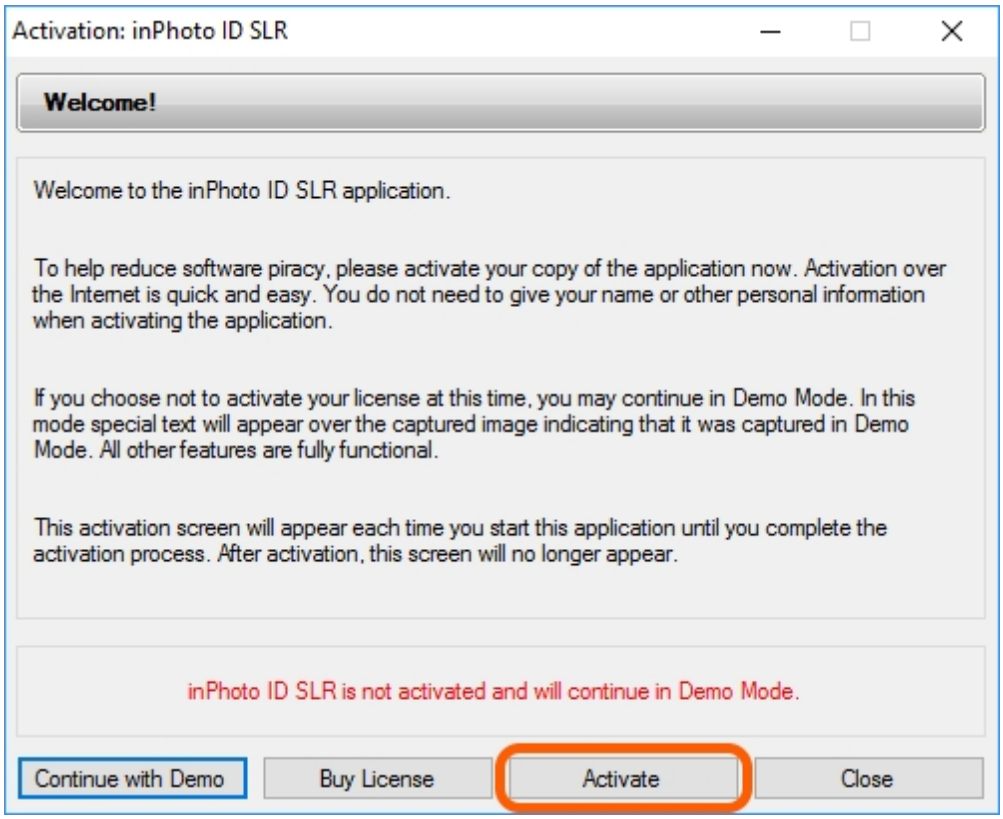
After that, the application will forward you to the developer's website where you can buy the licence to the required product.



Activation Online

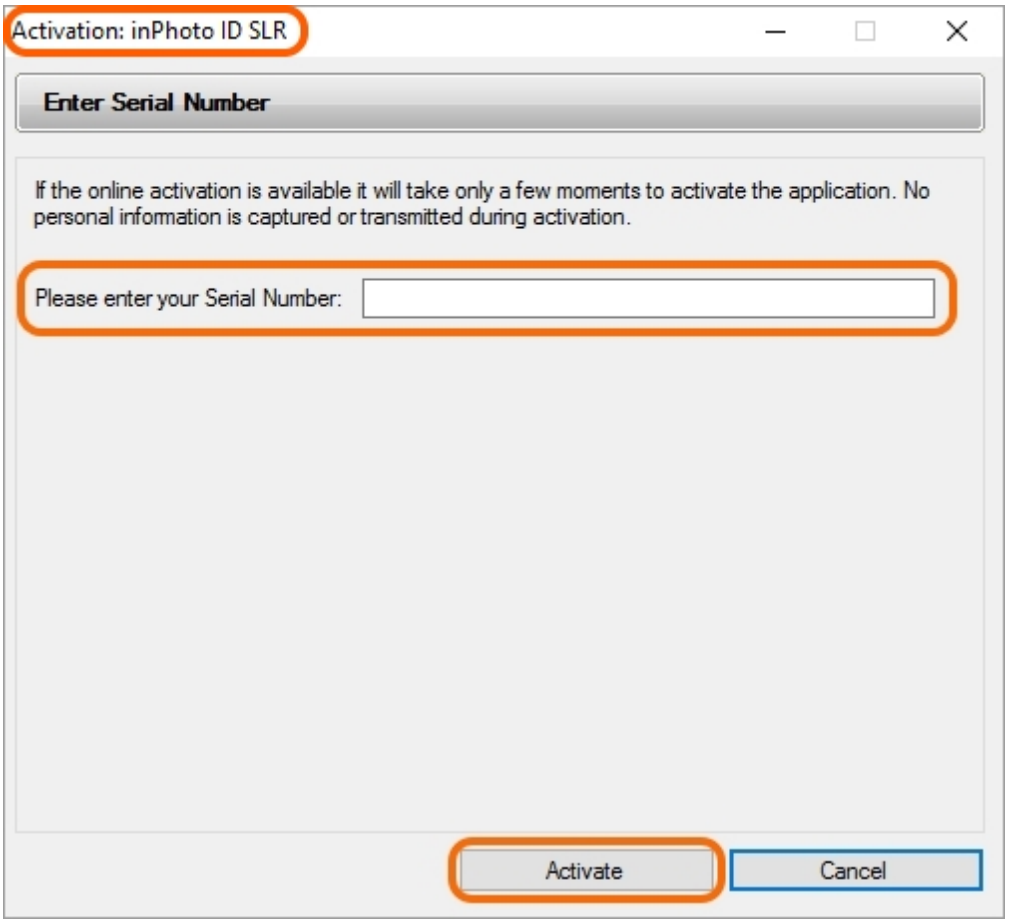
This way of activation requires Internet connection

Upon initial launch of **inPhoto ID SLR**, an activation wizard window appears. Press the **Activate** button to start activation of the application.

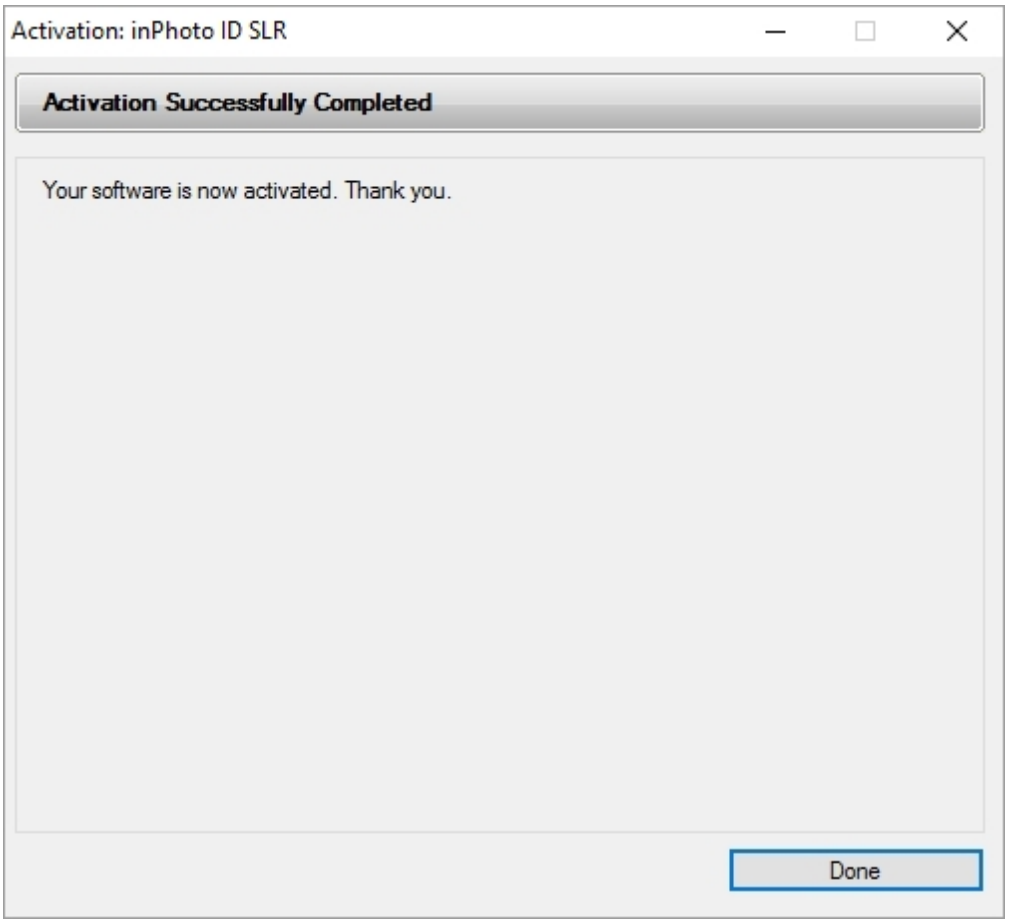


Please verify the name of the application being activated is the same as the name of the application indicated with the Serial Number.

Then enter the Serial Number and press the **Activate** button.



After that, the application will attempt to connect to activation servers. Several servers are made available for ensuring the reliability of connection. If the PC is connected to Internet and the connection succeeds, the activation of the application is completed. The activation wizard will inform you about it with the following message:

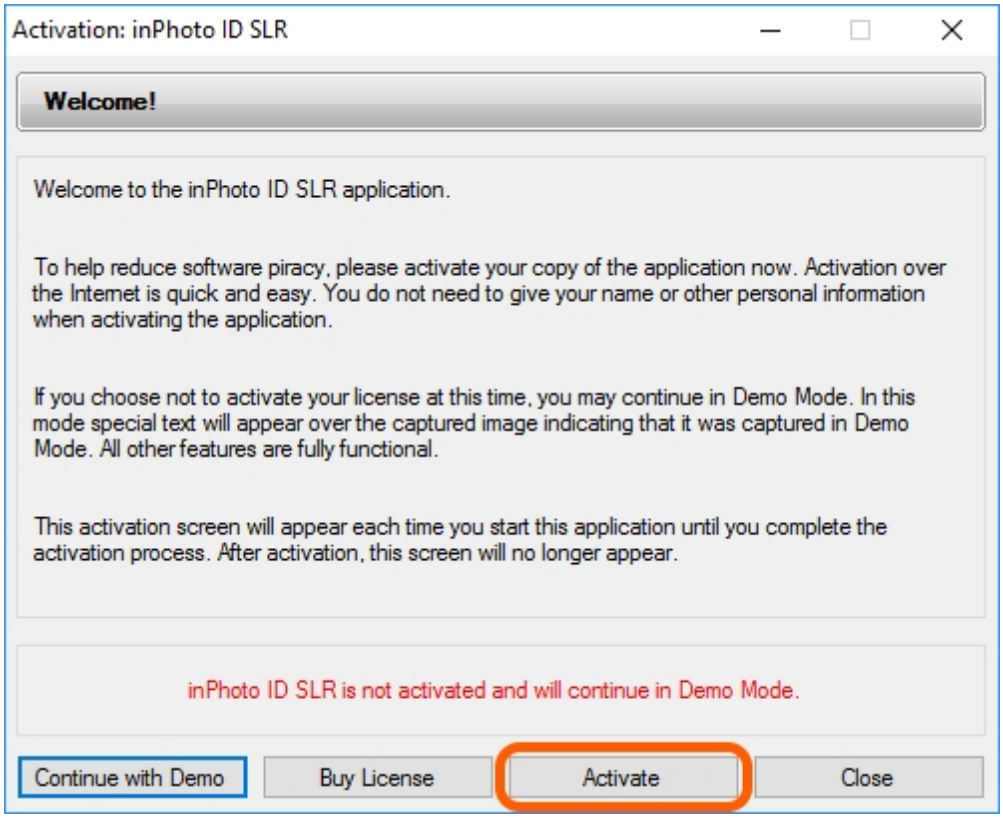


If the PC is not connected to Internet, **Offline** activation window will appear.

Activation Offline

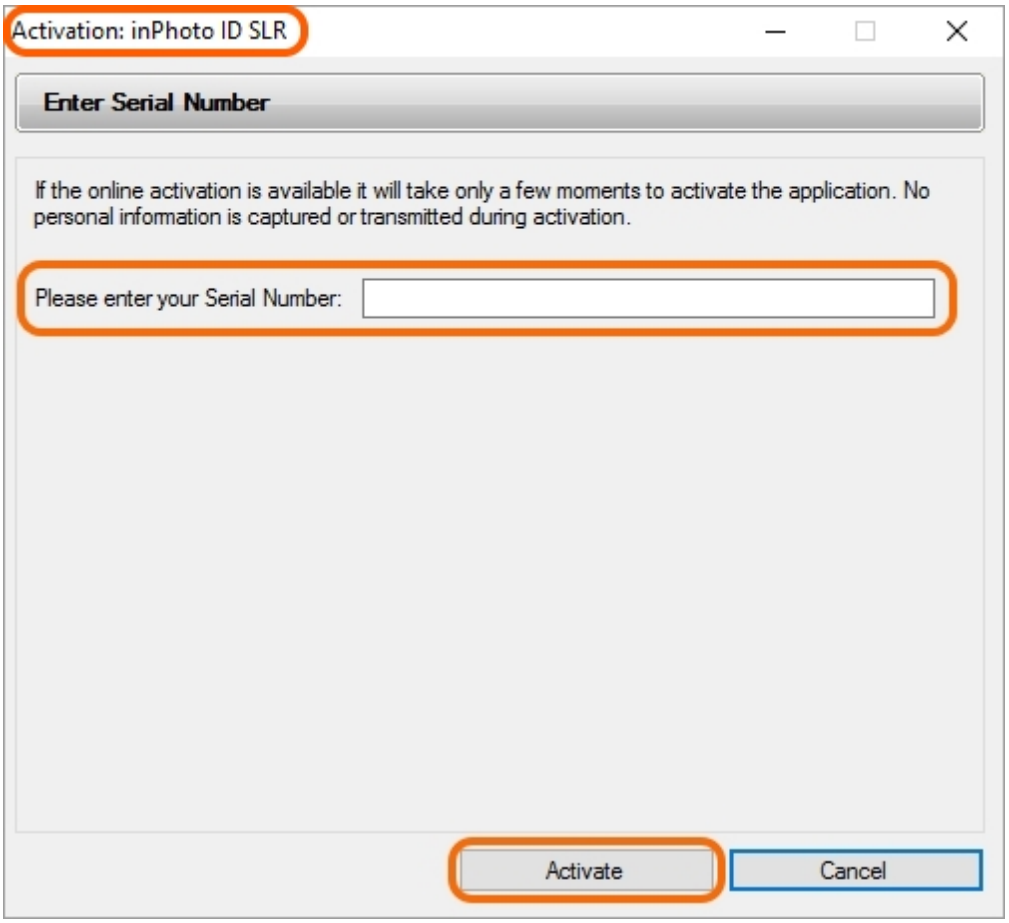
If the PC on which **inPhoto ID SLR** is to be activated is not connected to Internet, then make use of the **Offline** activation. In such case, Serial Number validation is carried out via server,by the same way as when the **Online** activation used. The difference is that you may use any PC or device with Internet connection for sending the Serial Number. It is not mandatory to be the PC **inPhoto ID SLR** has been installed on. For example, a user having no access to Internet from his/her job computer may activate the application using a phone or home computer. There are no constraints as to the time between sending the Serial Number to the server and entering the received reply code in **inPhoto ID SLR** activation window. This can be done within any time period.

Upon initial launch of **inPhoto ID SLR**, an activation wizard window appears. Press the **Activate** button to start activation of the application.

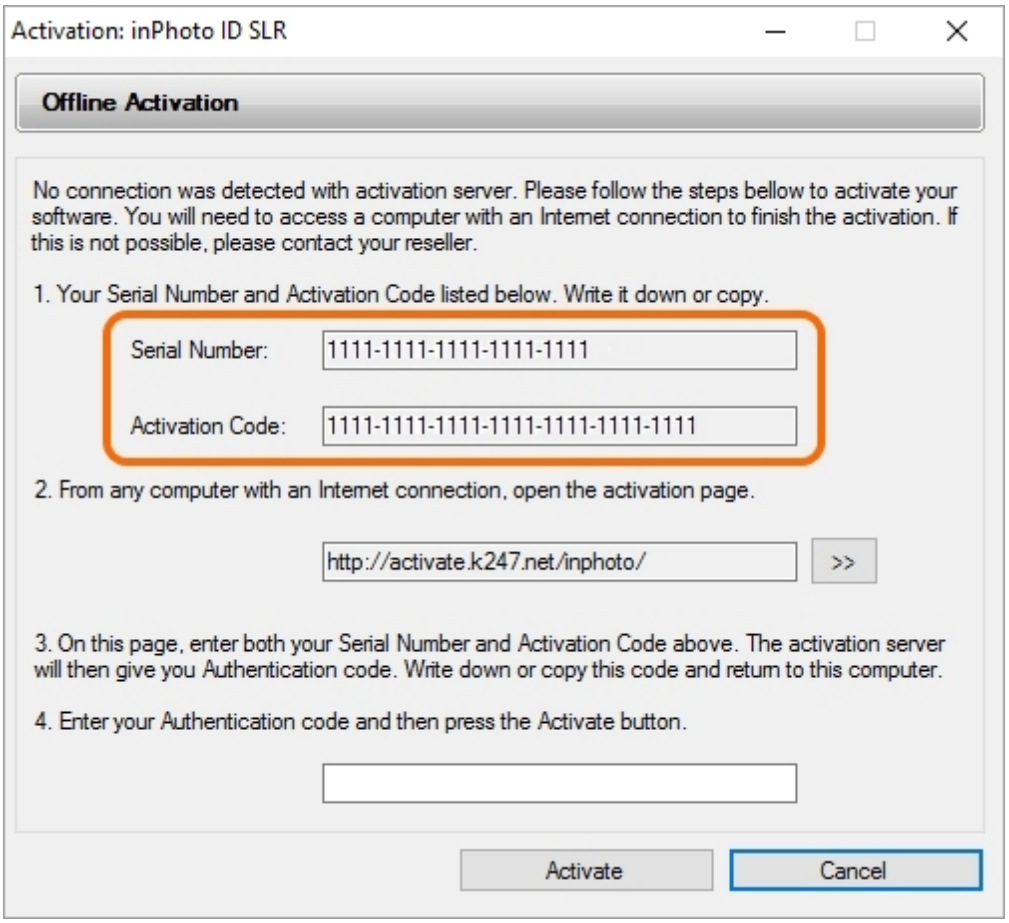


Please verify the name of the application being activated is the same as the name of the application indicated with the Serial Number.

Then enter the Serial Number and press the **Activate** button.



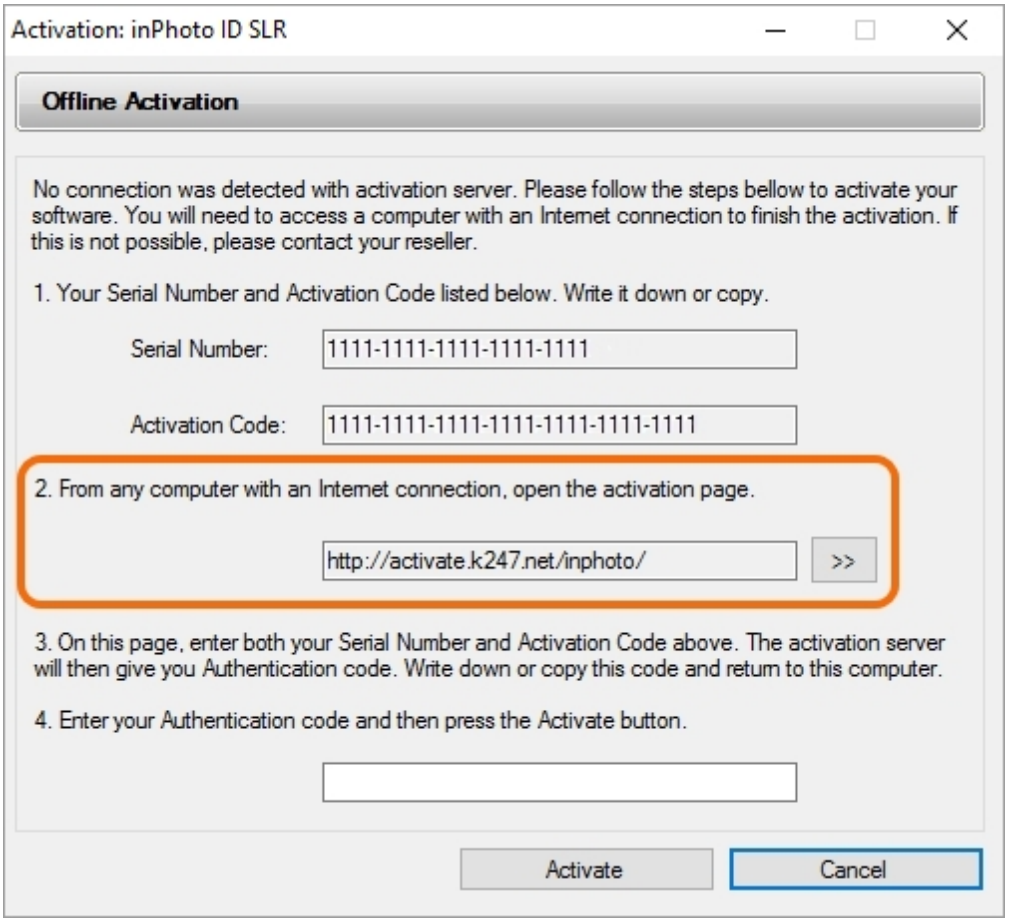
In the appeared window, please write down or copy the data from the **Serial Number** and **Activation Code** fields. These data are to be sent to the activation server. It is to be recalled that there are no constraints as to the time between sending the data to the server and entering the received reply code in **inPhoto ID SLR** activation window. You may complete the **Offline** activation at your convenience.



You will need Internet connection to proceed with the activation.

Use your browser to open the page specified in the field **2. From any computer with an Internet connection, open the activation page**.

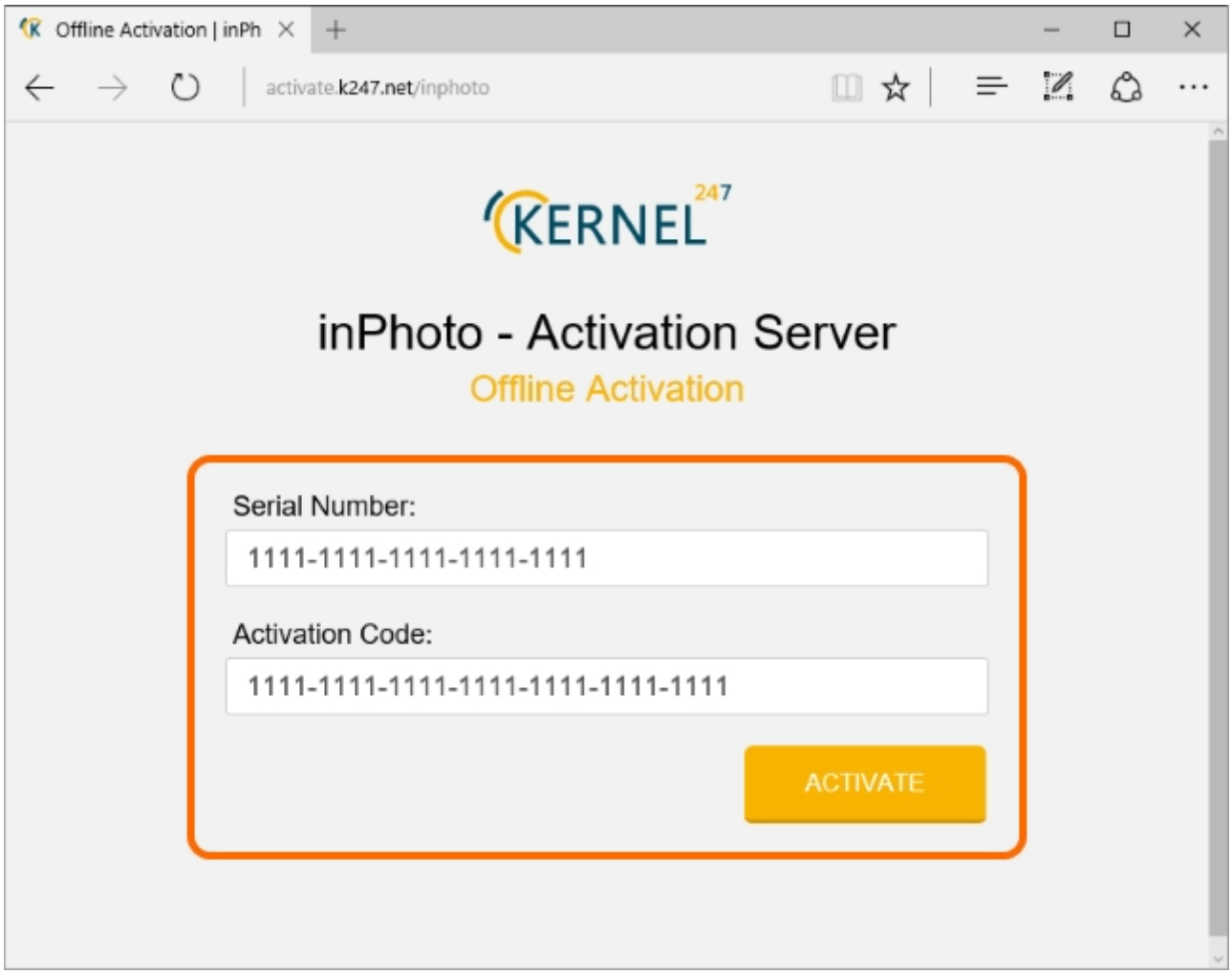
You can open the activation page on any Internet connected device: a laptop, a tablet, a smartphone, etc.



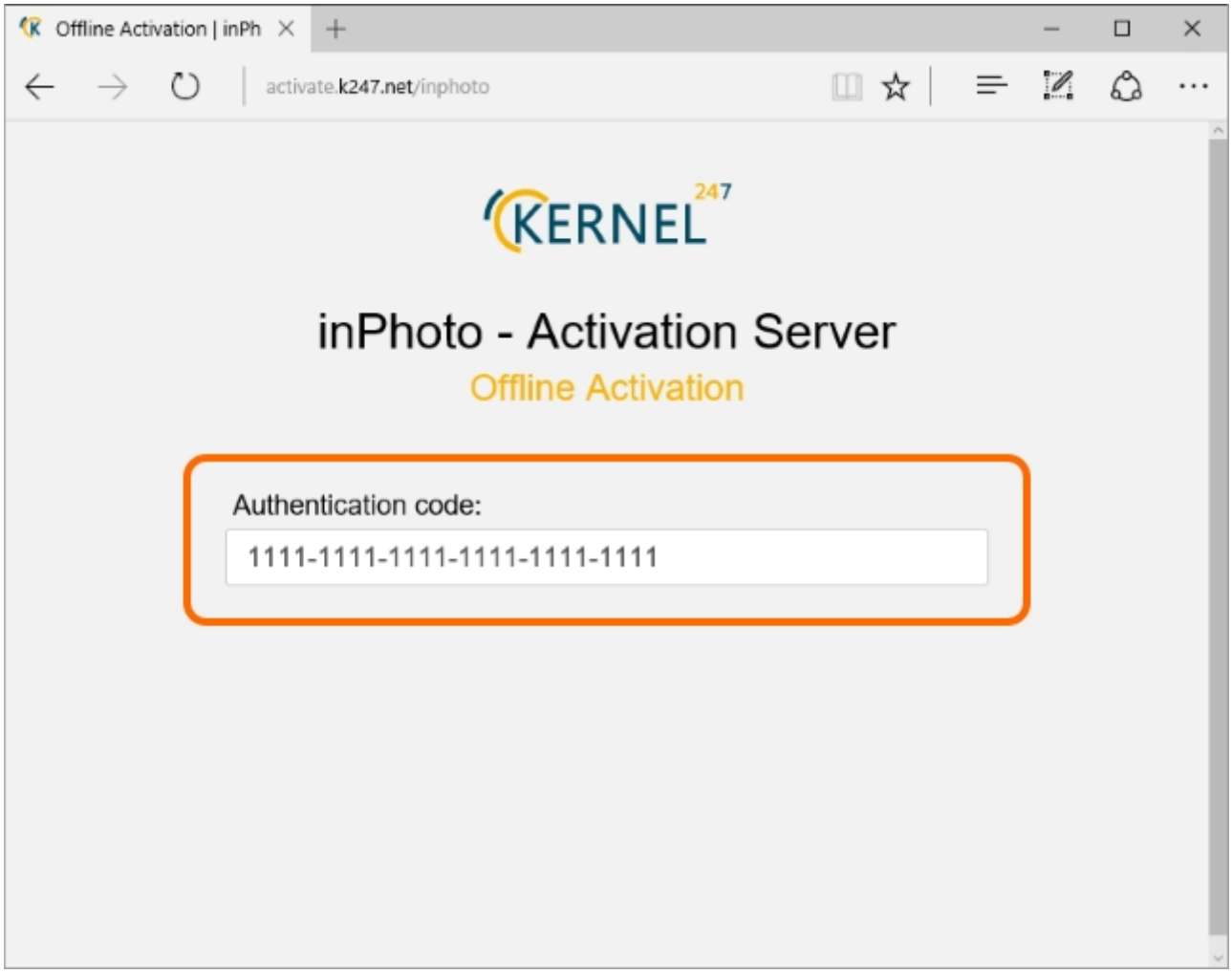
Enter your Serial Number and Activation Code in the corresponding fields of the appeared form.

Please note: the data should be entered in the same format as they have been presented in the activation wizard window, i. e. by groups of 4 digits without spaces, separated by hyphens.

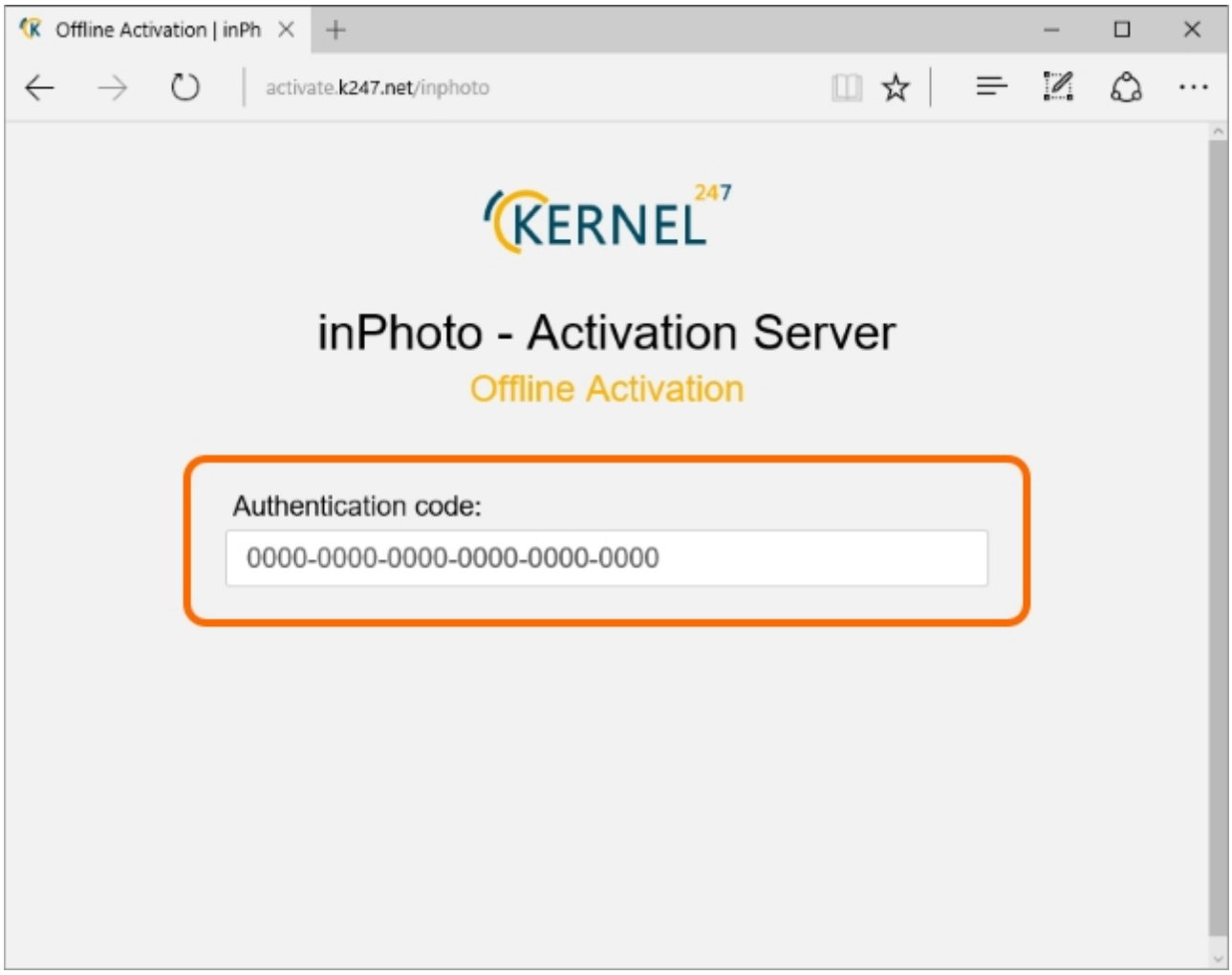
After having completed the input, press the **ACTIVATE** button.



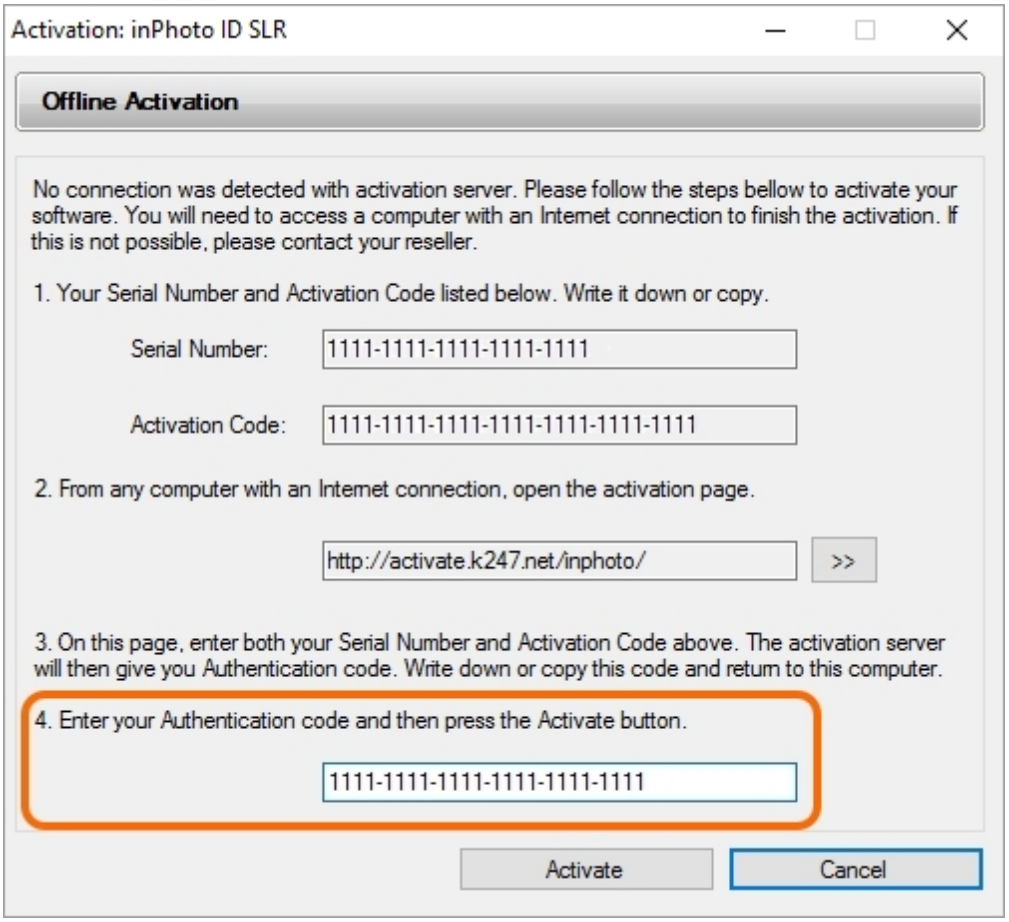
After that, the Authentication Code will be generated. Write it down or copy for subsequent entry into the activation wizard field.



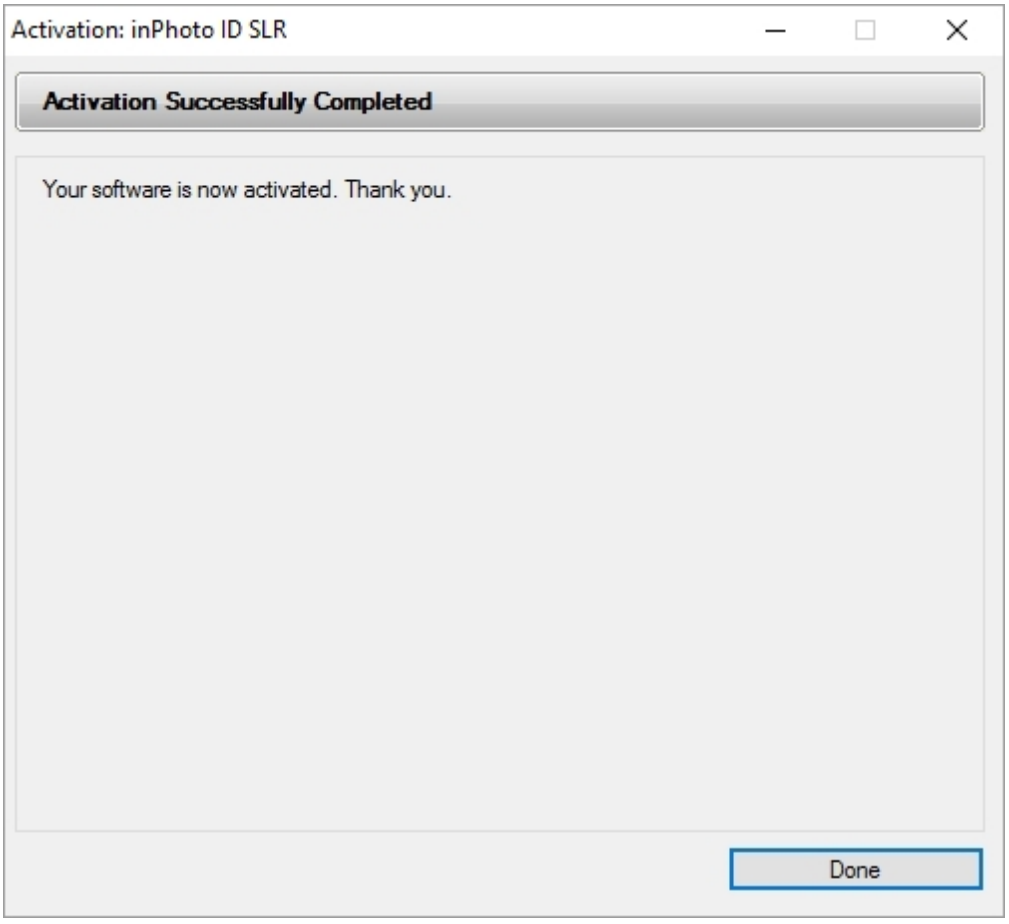
If the data are entered incorrectly, the Authentication Code will consist only of zeros. In such case, please check correctness of the data and the input format. Please note, your Serial Number and Activation Code should be entered by groups of 4 digits without spaces, separated by hyphens.



Enter the received Authentication Code in the field **4. Enter your Activation Code and then press the Activate button**.



Now, the **Offline** activation is successfully completed. The application will inform you about it with the following message:



Camera Connection

Take the following steps to connect your camera to a PC and pass the camera control to **inPhoto ID SLR**:

Step 1. Switch the camera to program mode (**P**).

*Depending on the model, the camera mode is switched either using the mode dial or from the camera menu. If the mode is set from the menu, it should be switched before the camera is connected to **inPhoto ID SLR**. After the camera control is moved to the application, buttons and other control elements on the camera body will be locked and you will not be able to switch mode from the menu.*

*To switch the mode when the camera has already passed control to **inPhoto ID SLR** disconnect the camera from the PC, switch the mode, then connect the camera to the PC. If **inPhoto ID SLR** cannot detect the connected camera run **Reconnect**.*

Step 2. Remove SD memory card from the camera.

The memory card can rarely cause an issue when you control a camera remotely. To avoid the issue we recommend to use the camera without a memory card.

Step 3. Make sure that the camera batteries are charged or the camera is connected to a power source.

We recommend connecting the camera to a power source for trouble-free functioning.

Step 4. Connect the camera to the PC which **inPhoto ID SLR** is installed on using a **USB** cable.

*To ensure that your PC recognized and connected the camera enter the **Start menu** -> **Settings** -> **Devices** -> **Connected devices.** If the camera is connected it will display in the **Other Devices** list.*

Step 5. Switch the camera on.

Step 6. Start **inPhoto ID SLR**. In a couple of seconds, the application will initialize the camera and you will see the image received from the camera in the application preview. Since that moment, you can control the camera via **inPhoto ID SLR**.

*All cameras supported by **inPhoto ID SLR** translate preview except **Canon EOS 40D**.*

*After the camera control is moved to **inPhoto ID SLR**, all the buttons and other control elements on the camera body will be inactive except the zoom lever.*

Chapter 2. Interface

The contents of the chapter are as follows:

Main Window View

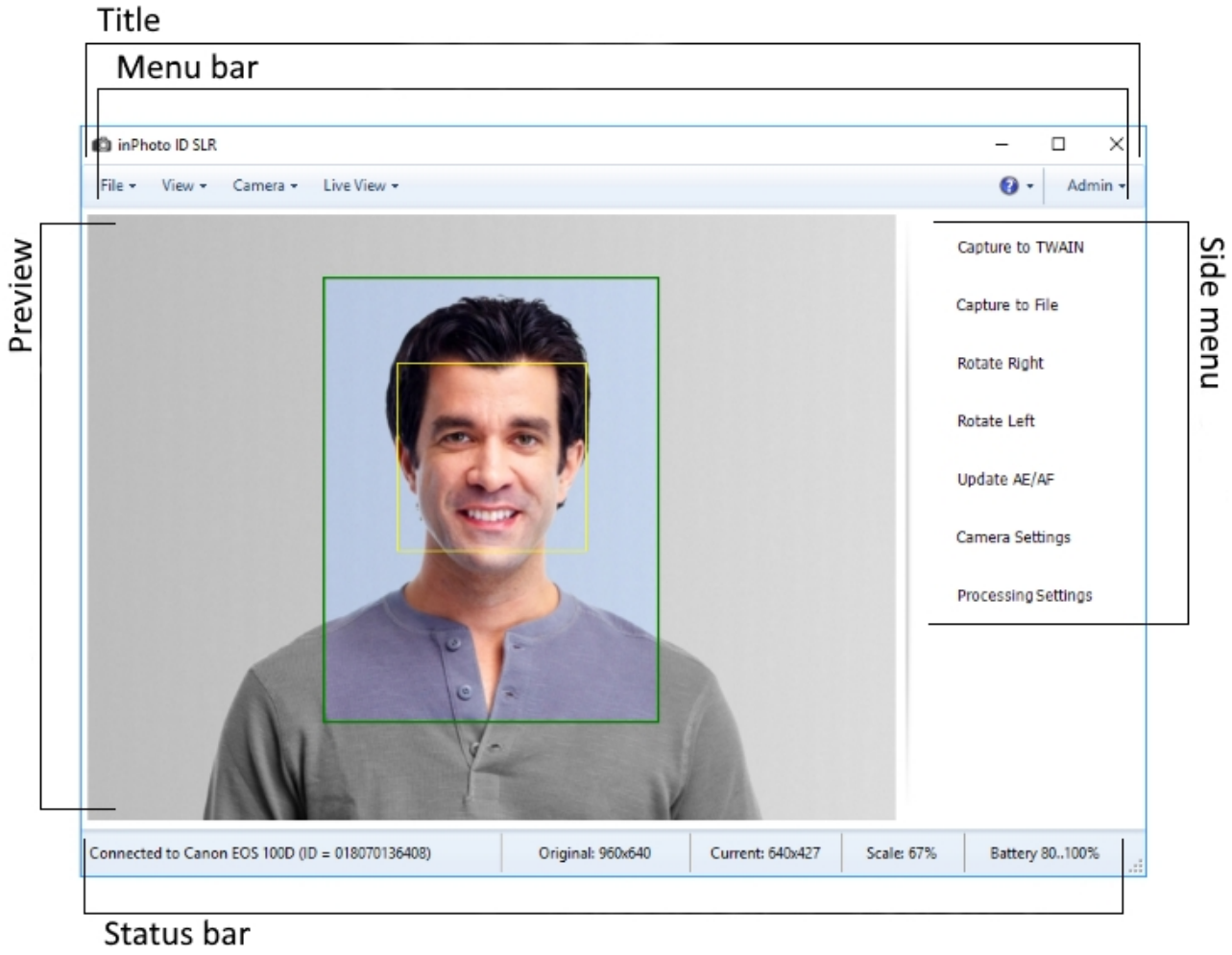
Interface Setting

Shorcuts

Shutdown

Main Window View

The main window of **inPhoto ID SLR** is the user's interface composed of five main elements: the window title, the main menu bar, the preview, the side menu and the status bar.



Let's take a closer look at each of these elements:

[Window Title]

[Main Menu]

[Preview]

[Side Menu]

[Status Bar]

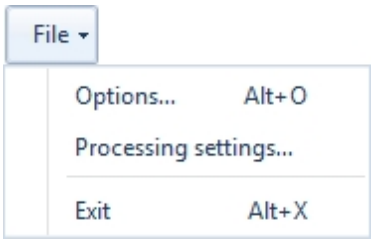
Window Title

The title of the window traditionally contains the application name and **Minimize**, **Change window size**, and **Close** buttons.

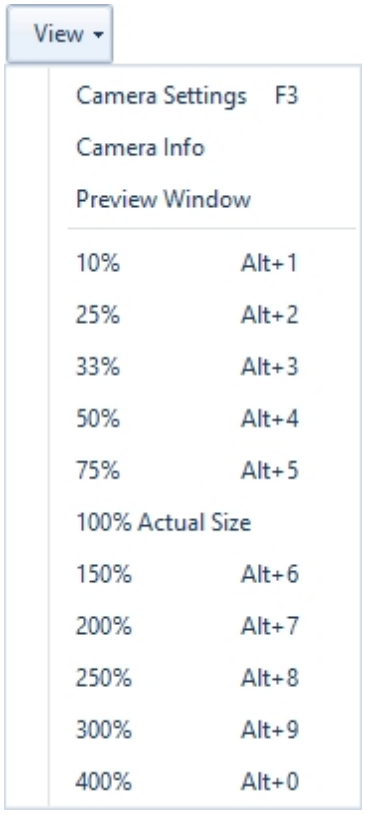
Main Menu

The main menu is designed for accessing different application functions.

The **File** menu contains general application settings, interface language settings, image processing settings, image saving settings and voice control settings.



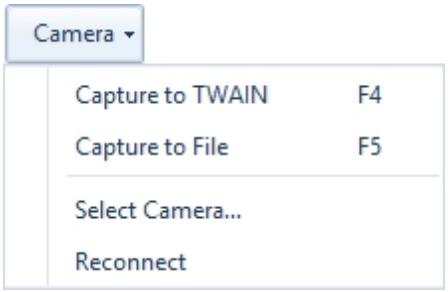
The **View** menu contains: commands for calling up the camera settings and camera information windows, a command for opening image preview in a separate window and size parameters of the application main window.



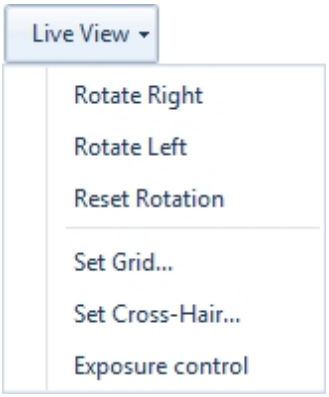
The **Camera** menu contains **Update AE/AF** command, processed image capture to TWAIN and a file commands, as well as camera selects and reconnects commands.

By default, the **Capture to TWAIN** menu item is disabled. You need to establish connection with TWAIN driver to enable it. For more details on image capture options, please see the **TWAIN** section.

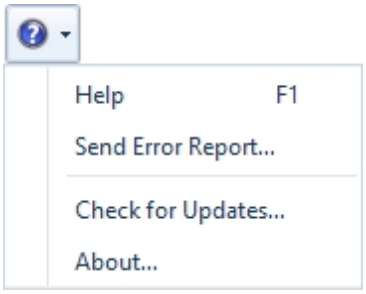
For more details on operations with camera, see the **Camera** chapter.



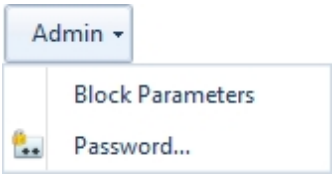
The **Live View** menu contains image rotate commands and tools for configuring snapshot in the preview area. More information about the menu commands you can be found in the **Preview** chapter.



The **Help** menu contains help topics, update checks, application information and the function of sending an error report to the product developers.



The **Admin** menu contains security settings of the application.

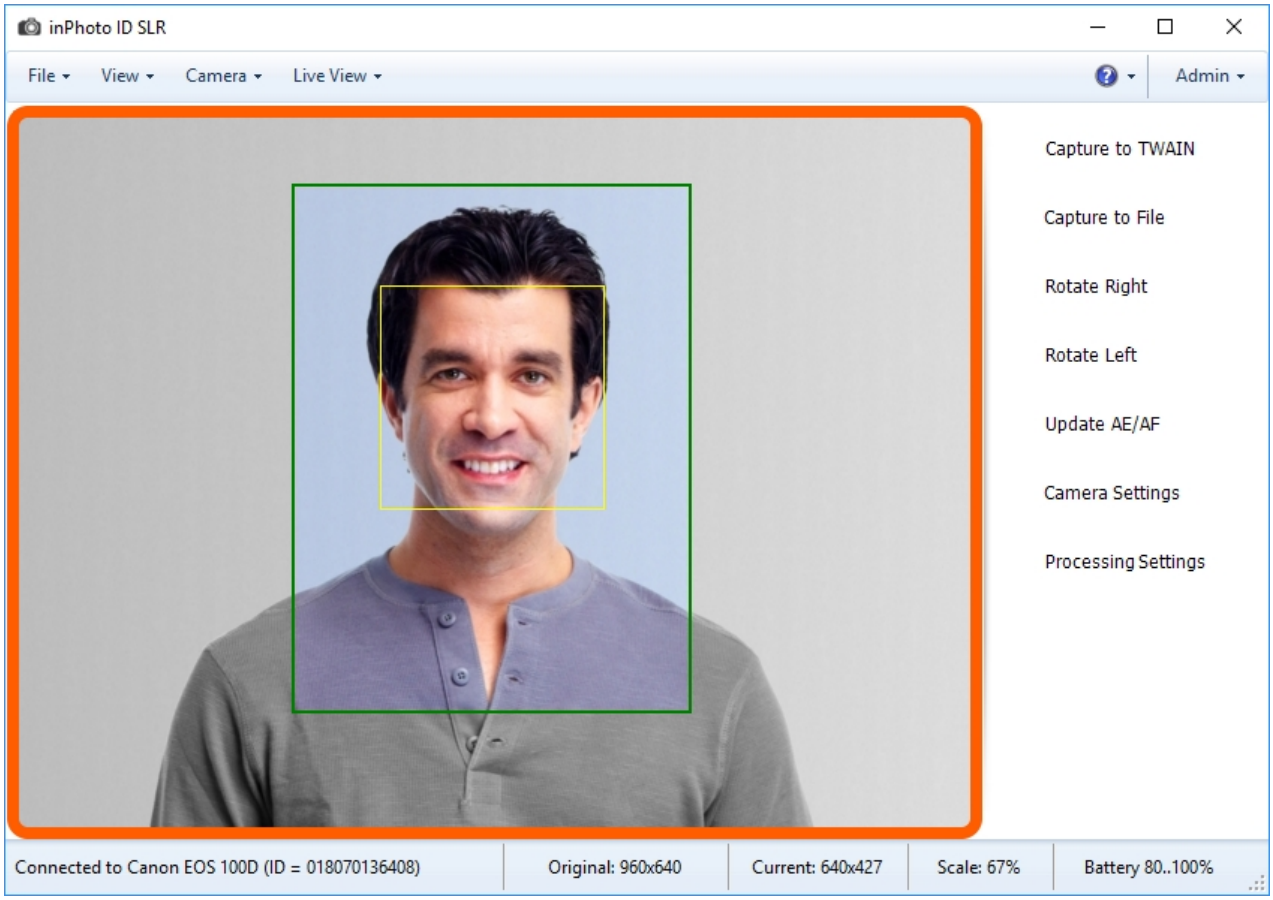


Preview

Under **inPhoto ID SLR**, we have implemented a "live" preview of the image before shooting. The camera image is displayed in the preview area.

Hereinafter, the preview area will also be referred to as "preview".

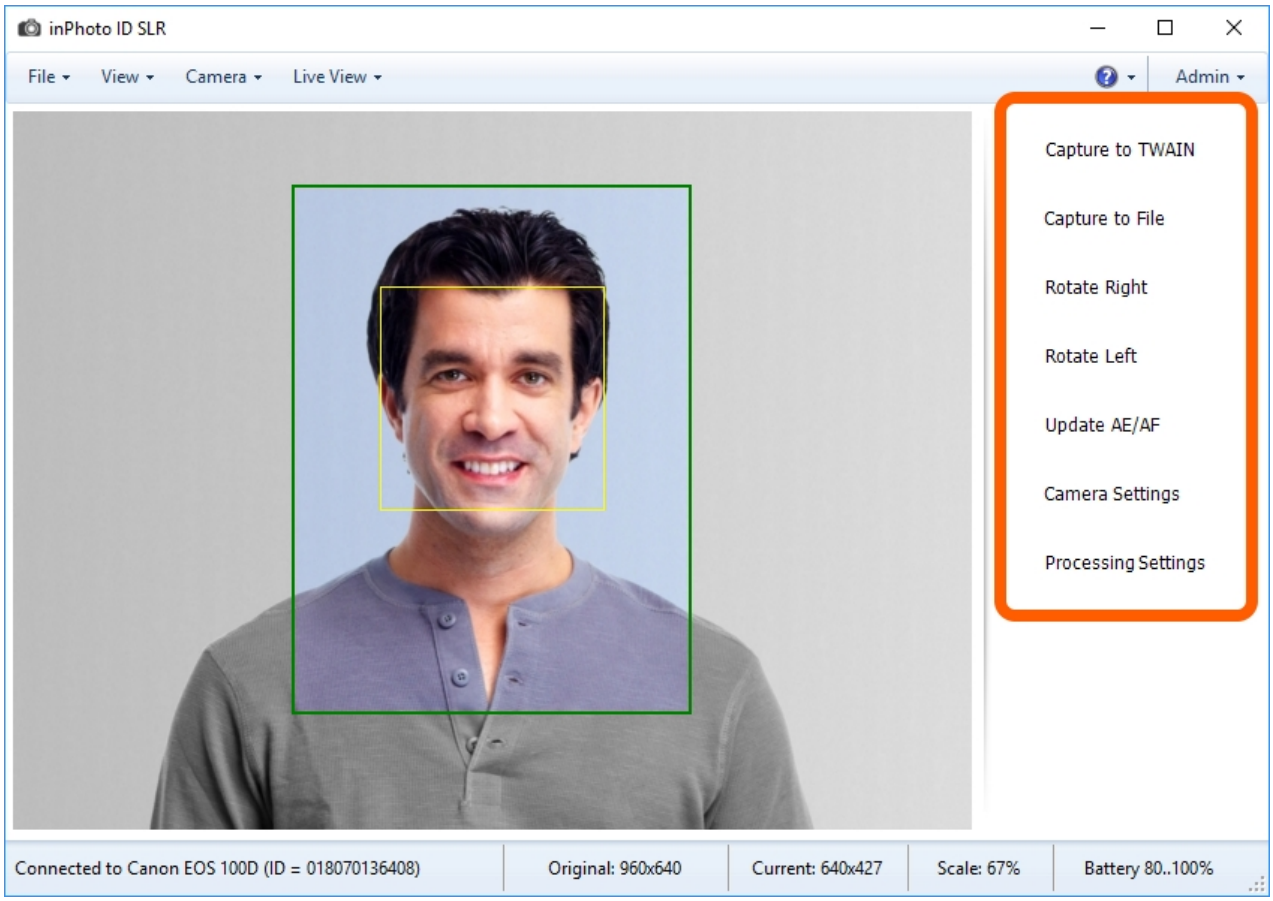
The effect of any change of camera and crop frame settings will be immediately applied on the preview. Thereby, the user can monitor composition and quality of the image before shooting.



Please refer to the **Preview** chapter for more details on the preview operation.

Side Menu

The side menu is created to bring additional convenience to the application interface and for a quicker access to the frequently used functions.

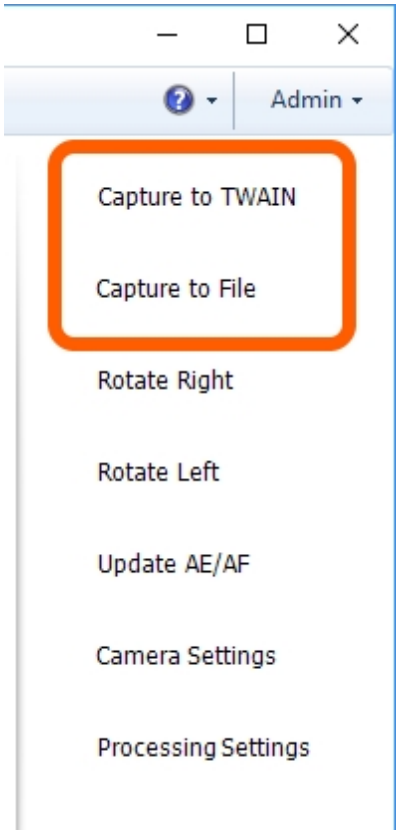


Let's take a closer look at the functions of each button.

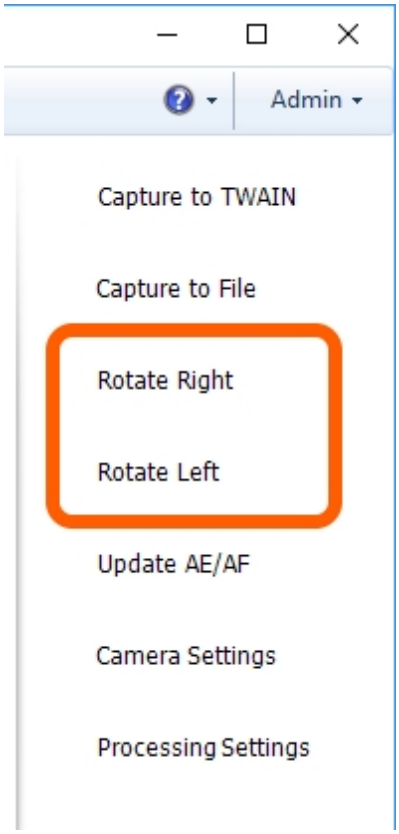
The **Capture to TWAIN** and **Capture to File** buttons run shooting and processing of the image.

These commands run the image processing with subsequent saving of the results. Actions started with the buttons differ only by locations to which the processing results will be saved. **Capture to TWAIN** saves the processed image to the application with which the connection is established through the TWAIN driver. If the connection through the TWAIN driver is not established, the button will not be active. **Capture to File** saves the processing results to the specified place on the drive.

You can read more details on the image processing methods in the **Processing** chapter.

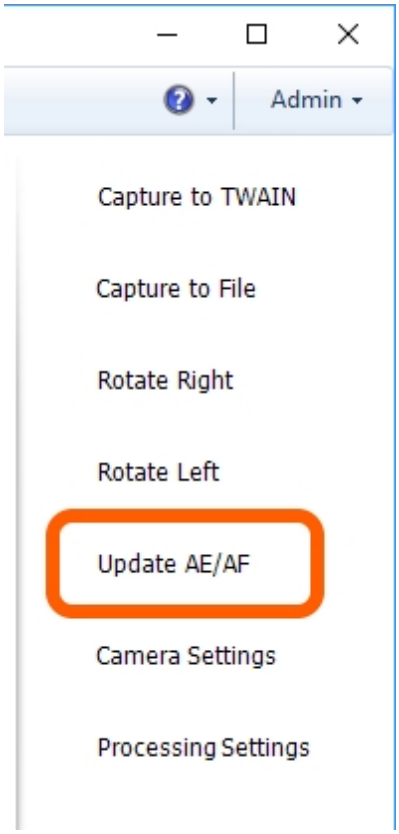


The **Rotate Right** and **Rotate Left** buttons are provided to rotate the image 90 degrees to the right or to the left. The image rotation is displayed on the preview and is taken into account in processing.



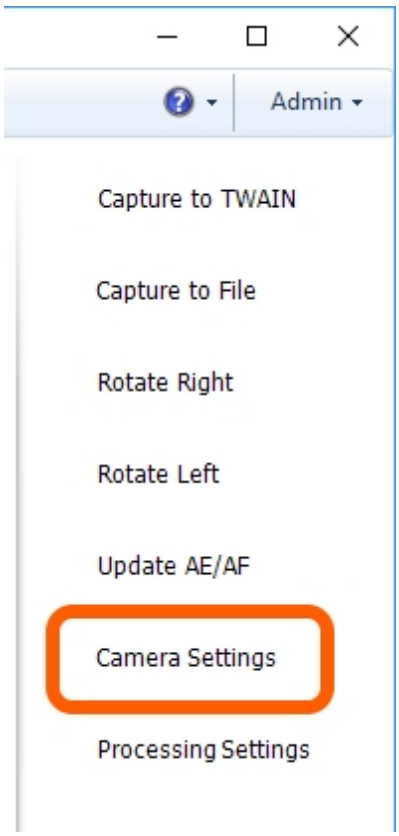
The **Update AE/AF** button updates auto focus and auto exposition of the camera.

Please refer to the **Update AE/AF** section for more details.



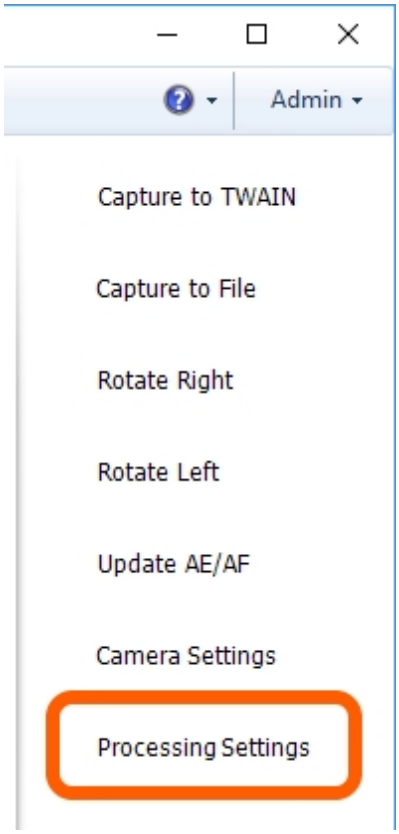
The **Camera Settings** button starts a dialogue window which contains camera settings.

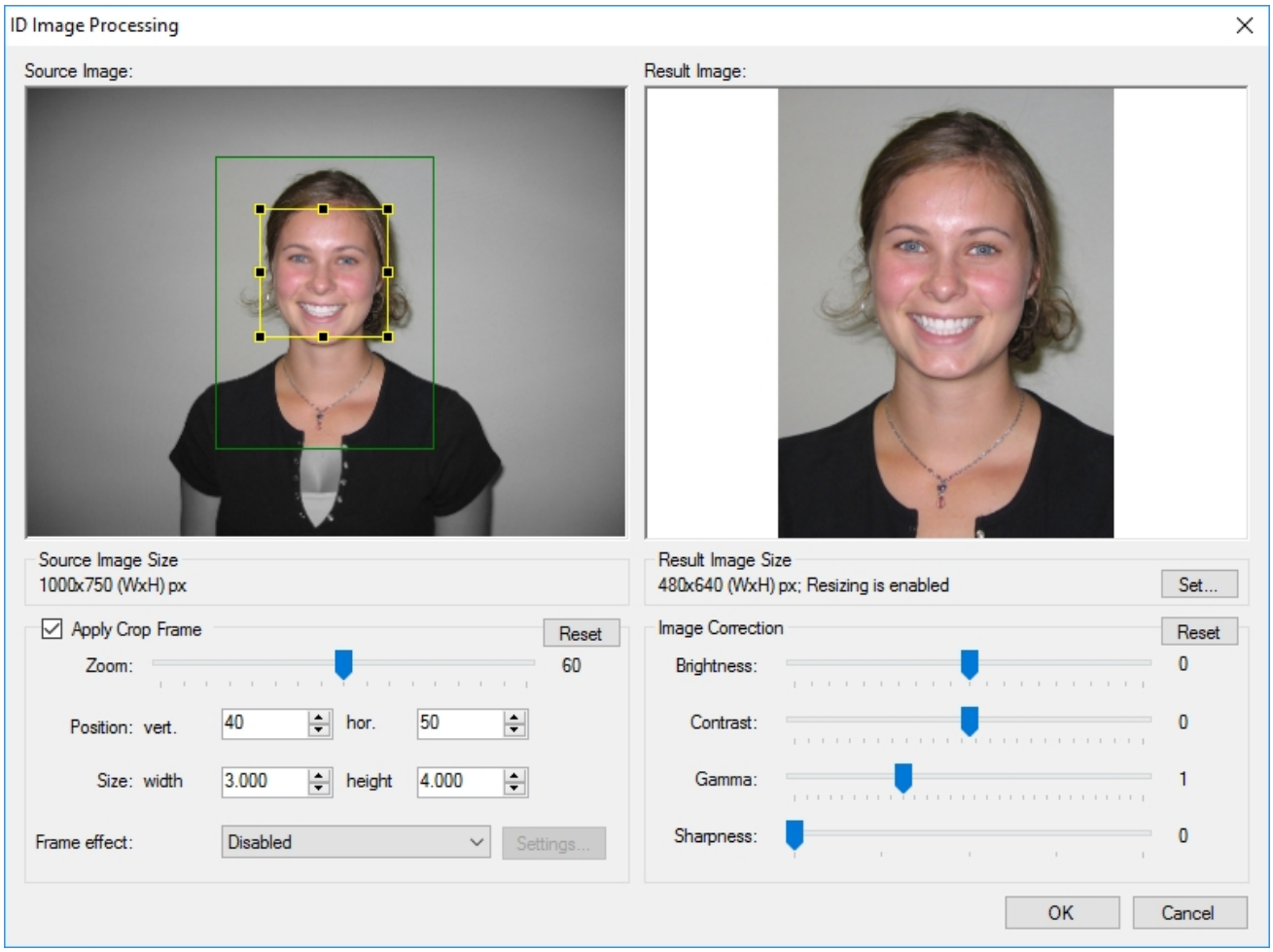
You can get more details on setting the camera settings in the **Camera setting** section.



The **Processing settings** button calls up the **ID Image Processing** dialogue that contains all the settings regulating image processing: face detection settings, bounding box and subsequent framing settings, correction settings, resulting image size settings. In addition, a preview area is also provided in the dialogue; the preview allows you to see the image after processing with the current settings.

You can read more details on the **ID Image Processing** dialogue in the **ID Image Processing dialogue** section.



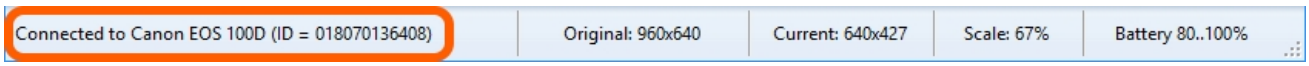

ID Image Processing
Source Image:
Result Image:
Source Image Size
1000x750 (WxH) px
Result Image Size
480x640 (WxH) px; Resizing is enabled
Set...
Apply Crop Frame
Reset
Zoom:
60
Position: vert.
40
hor.
50
Size: width
3.000
height
4.000
Frame effect:
Disabled
Settings...
Image Correction
Reset
Brightness:
0
Contrast:
0
Gamma:
1
Sharpness:
0
OK
Cancel

Status Bar

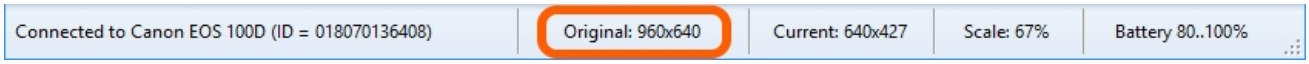
The status bar is meant for displaying the information needed in the course of work. This area is divided into five sections.

In the first section, the name and the identification number of the connected camera is displayed from left to right.

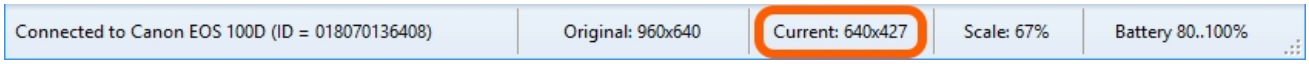
*Please note that after making a shot, the camera name will no longer be displayed in the status bar. For the camera name to be displayed in the status bar again, run the **Reconnect** command.*



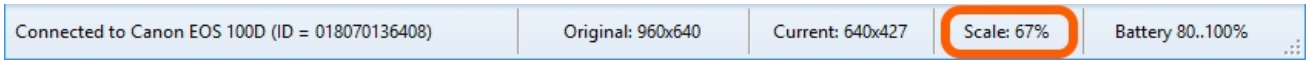
In the second section, you can see the size of the previous image received by the application from the camera.



In the third section, you can see the size of the image in pixels in the preview pane. If you change the application window size, the one of the current image will be changed as well.

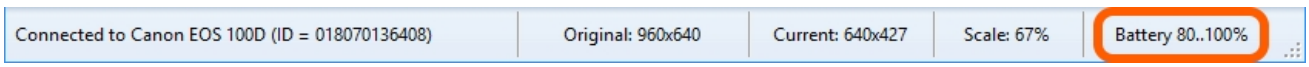


In the fourth section, you'll find the scale indicating the ratio of the image size in the preview to the size of the image received from the camera.



In the fifth section, the battery charge level.

*Please note that if you have switched the camera on, but **inPhoto ID SLR** cannot find it, a low charge of the camera battery can be one of the reasons for this. In such case, the camera stops supporting USB connection in order to save the battery power and thus the application stops "seeing" the camera.*



Interface Setting

In **inPhoto ID SLR** the user can choose scale of the main window and switch the language of the interface.

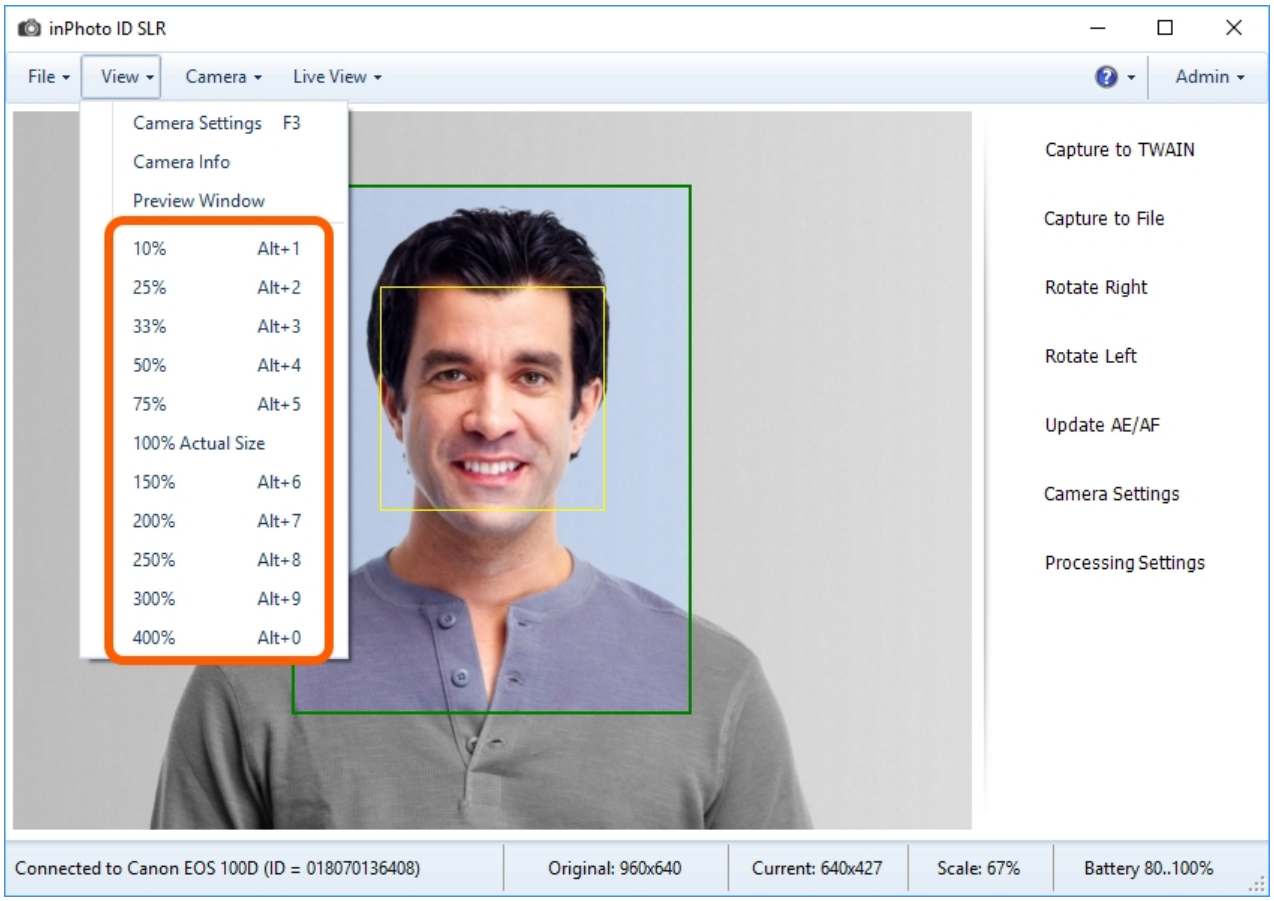
Main Window Scale

Language Switching

Main Window Scale

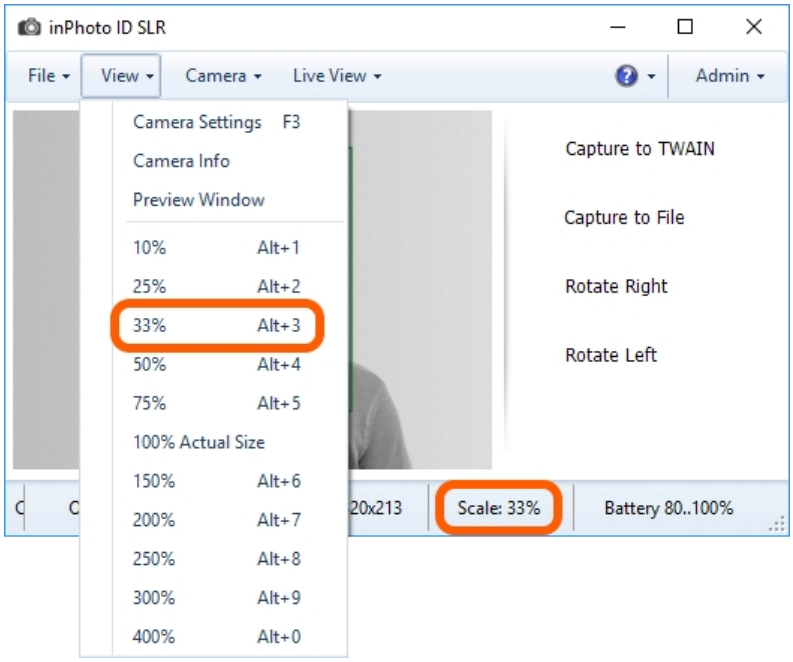
The scale allows you to resize of the main window.

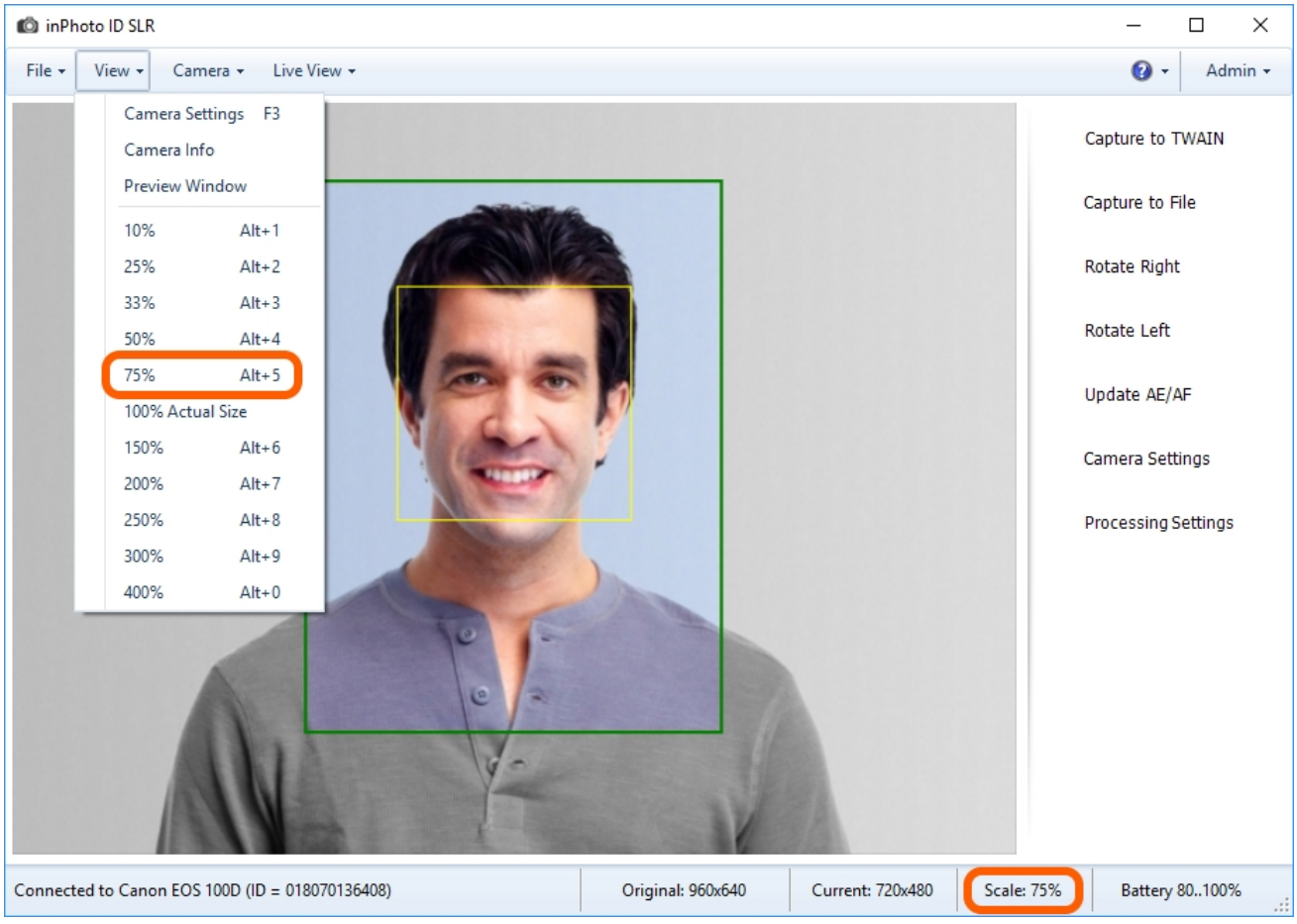
The scale settings are in the **View** main menu.



By default, the application window is shown on a scale of 67%.

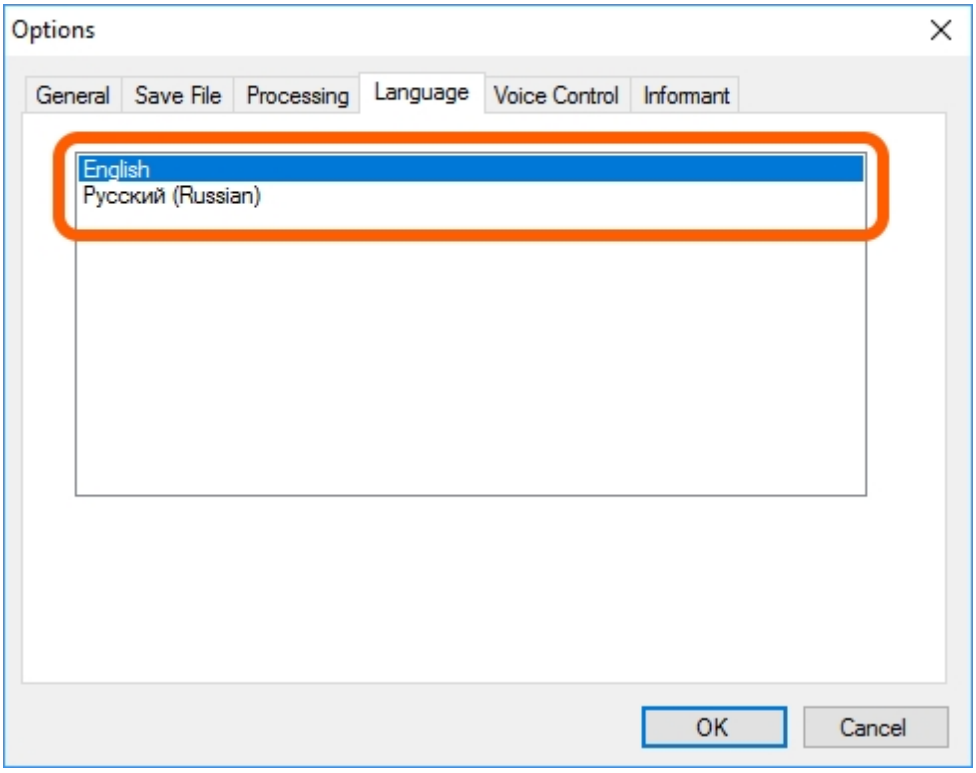
The below illustrations show the view of the window on a scale of 33% and 75%.



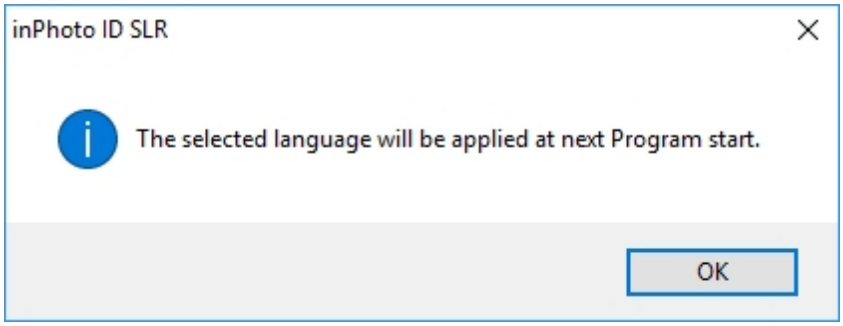


Language Switching

You can select and set the application interface language in the **File** main menu > **Options** > **Language** tab. The English and Russian languages are currently available.

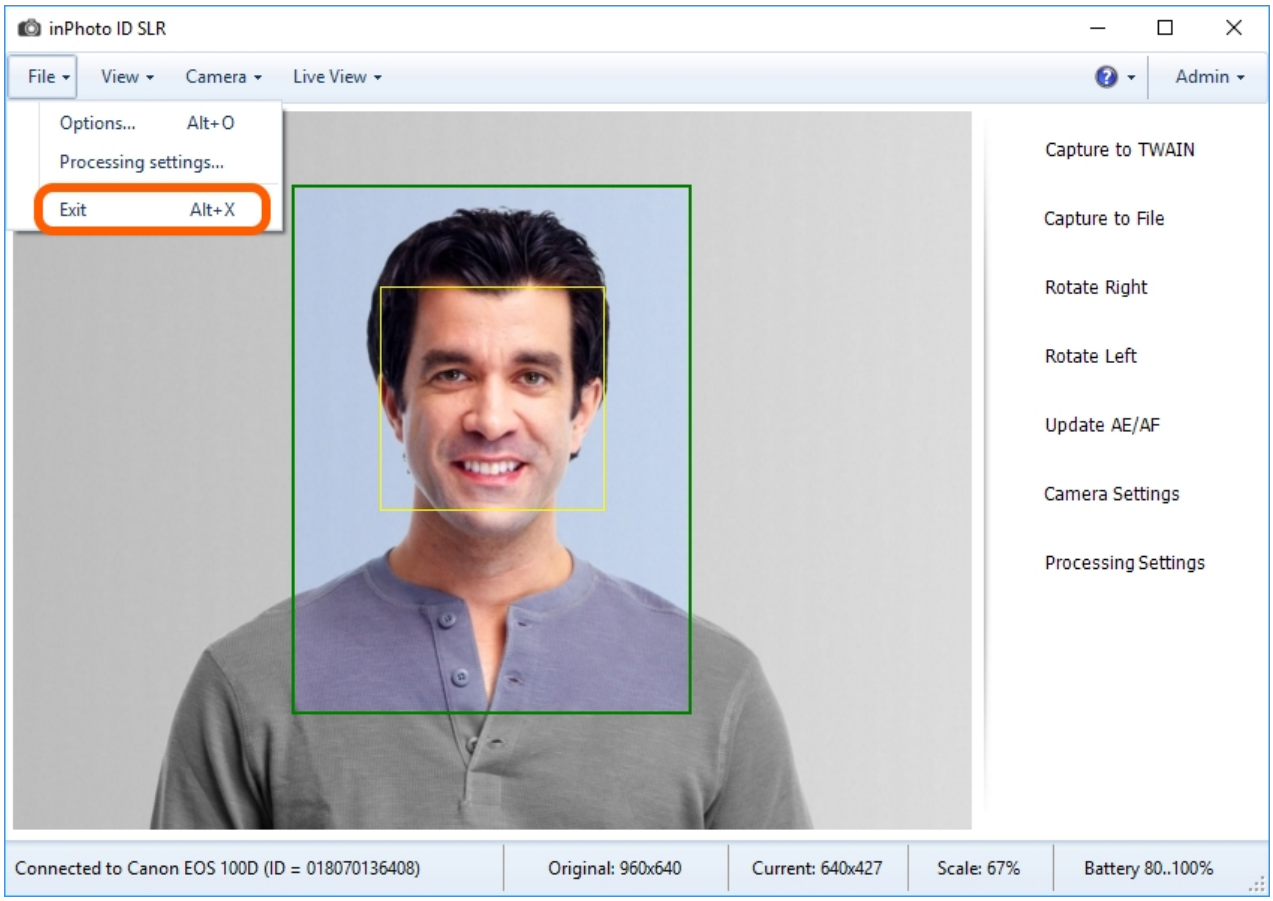


For switching to the necessary language, select it from the list and close the dialogue with **OK** button. Then, the application will inform you that the selected language will be applied upon the next start-up of the application.

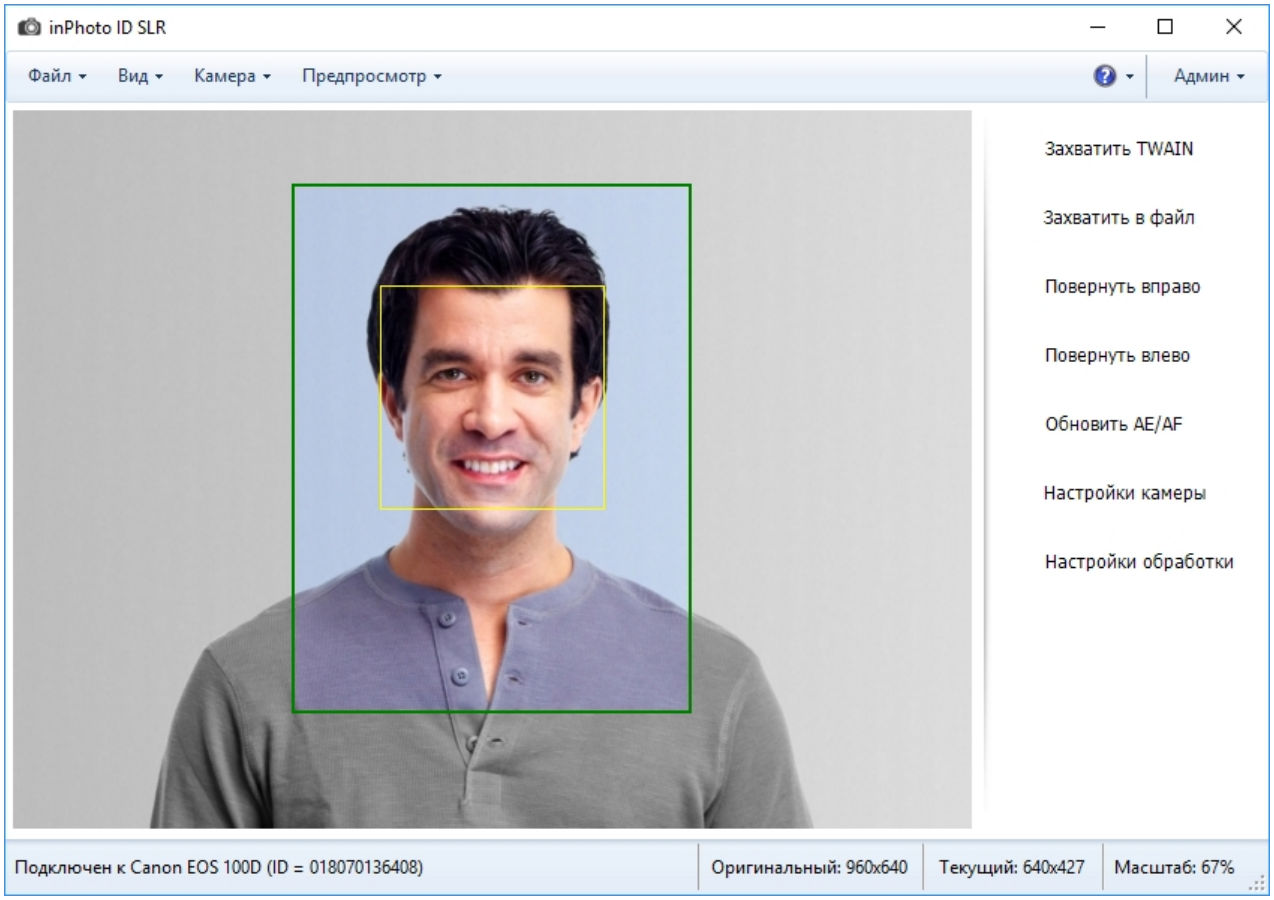


Next, close and restart **inPhoto ID SLR**.

*Please note that you should to close the program and not to hide to trey. Shutdown of **inPhoto ID SLR** are detailed in the **Shutdown** section.*

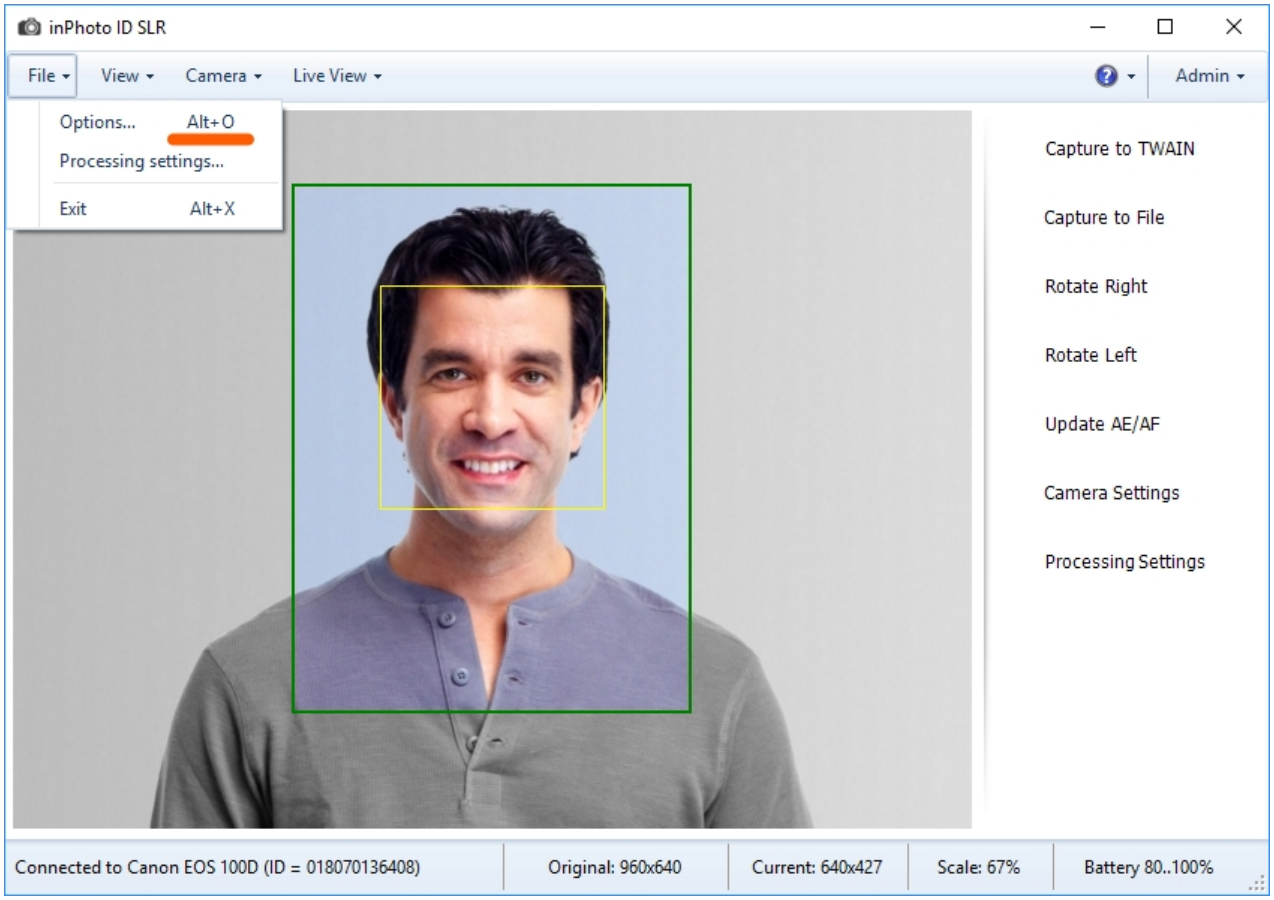


Interface will be displayed with the selected language during the next session of the program.



Shorcuts

You can get access to many **inPhoto ID SLR** commands not only from the menu, but also using shortcuts. If a shortcut corresponds to a certain menu item, then it is indicated on the title of this item as shown in the picture below.



The full list of the shortcuts and commands related to them is provided below.

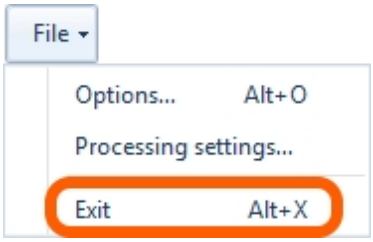
F1	Calls up the help file
F3	Calls up the window of the camera settings
F4	Starts up **Capture to TWAIN**
F5	Starts up **Capture to File**
Alt+O	Calls up the **Options** dialogue window

Alt+X	Closes **inPhoto ID SLR**
Alt+1	Sets up the scale of the window 10%
Alt+2	Sets up the scale of the window 25%
Alt+3	Sets up the scale of the window 33%
Alt+4	Sets up the scale of the window 50%
Alt+5	Sets up the scale of the window 75%
Alt+*	Sets up the scale of the window 100%
Alt+6	Sets up the scale of the window 150%
Alt+7	Sets up the scale of the window 200%
Alt+8	Sets up the scale of the window 250%
Alt+9	Sets up the scale of the window 300%
Alt+0	Sets up the scale of the window 400%

Shutdown

There are four ways to complete **inPhoto ID SLR** operation.

The first way: enter the **File** menu and choose **Exit**. This command always finishes work of the application irrespective of the value of the **Hide to tray instead of close** setting described below.

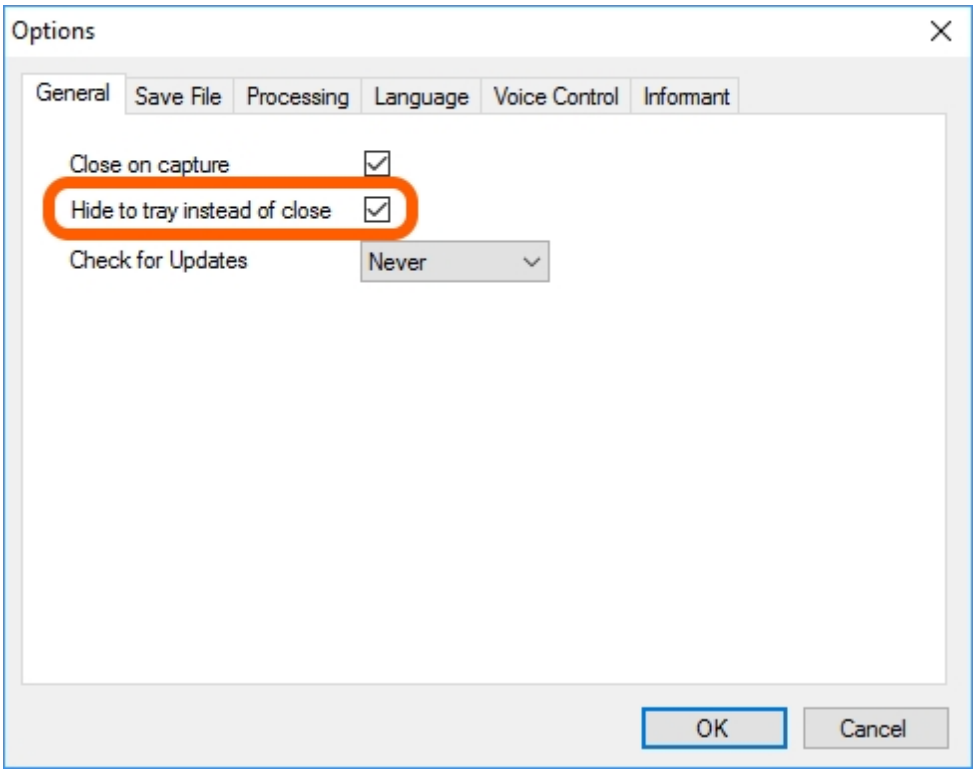


The second way is applicable if the application is minimized to tray. In this case, call up the context menu on the application icon and choose **Close**.

The behaviour of the application when closing it in the two following ways will depend on the value of the **Hide to tray instead of close** setting.

Hide to tray instead of close replaces closing **inPhoto ID SLR** by minimization to tray. The setting influences closing of the application with the ✕ button and its automatic closing after image capturing if the **Close on capture** setting is enabled. The setting does not influence closing the application through the **File** main menu > **Exit**. The application will always close when using **Exit**.

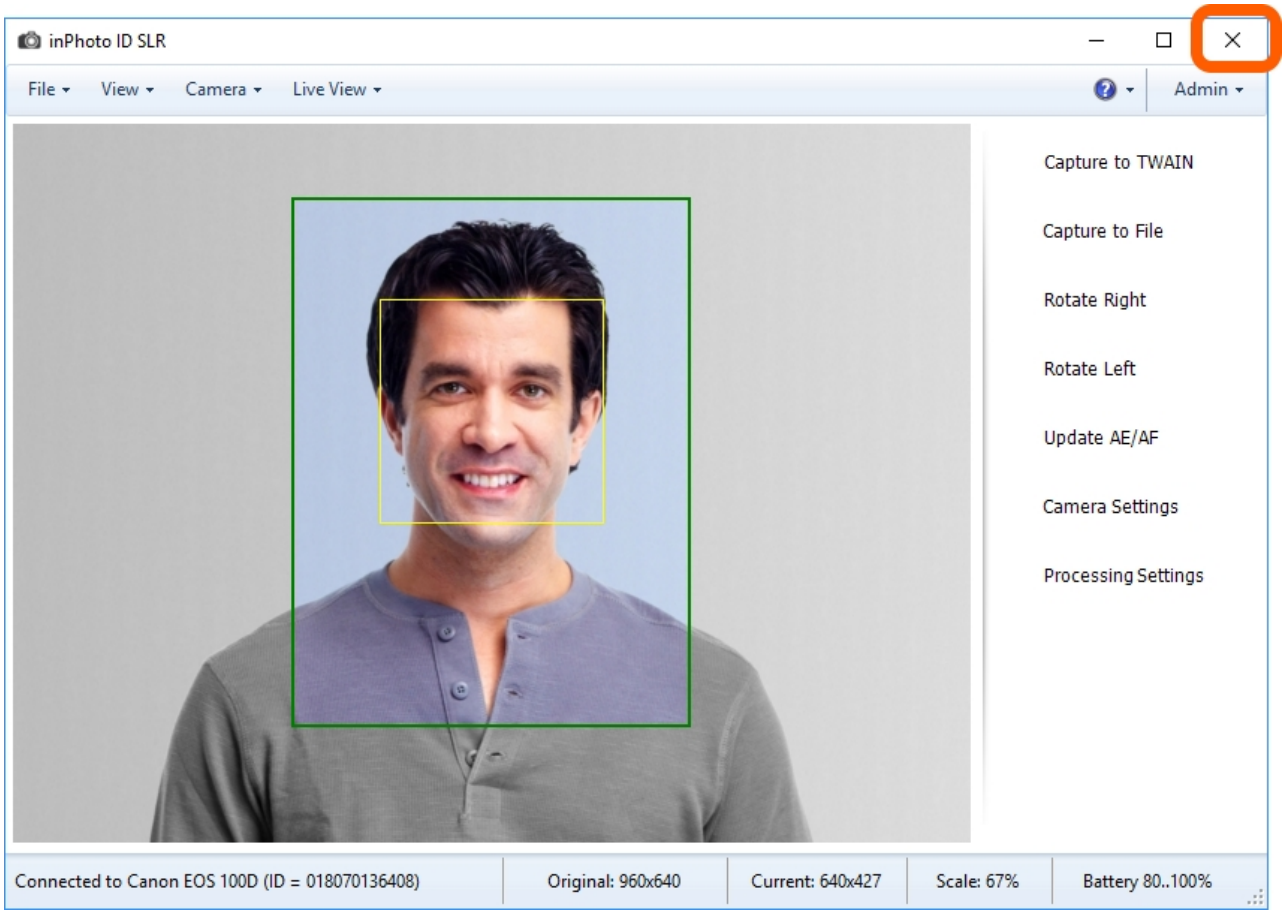
Hide to tray instead of close is located in the **File** main menu > **Options** > **General** tab. The setting is enabled by default.



The third way: enter the **File** menu> **Options** > **General** tab and enable the **Close on capture** setting. If this setting is enabled, the application will complete its work after image capturing. Whether the application will close completely or will be minimized to tray depends on the value of the **Hide to tray instead of close** setting.

*It should be reminded that image capturing is executed by the **Capture to TWAIN** and **Capture to File** commands. For more details on image capturing, please see the **Processing** chapter.*

The fourth way: complete the work of the application with the ✕ button in the window title. Whether the application will close completely or will be minimized to tray depends on the value of the **Hide to tray instead of close** setting.



Chapter 3. Camera

You can remotely control the shooting process and adapt the camera settings from the **inPhoto ID SLR** interface.

In this chapter, we demonstrate all the **inPhoto ID SLR** commands for working with camera.

*If your camera has not yet connected to your PC and to **inPhoto ID SLR**, please see the **Camera Connection** section.*

The contents of the chapter are as follows:

Camera Settings

Camera Selection

Camera Reconnection

Update AE/AF

Camera Settings

Most of modern digital cameras' settings are identical. Let us take a look at the camera settings by the example of **Canon EOS 100D**.

For this purpose, we need to open the camera settings window via the main menu **View** > **Camera settings** or with the **Camera settings** button on the side menu.

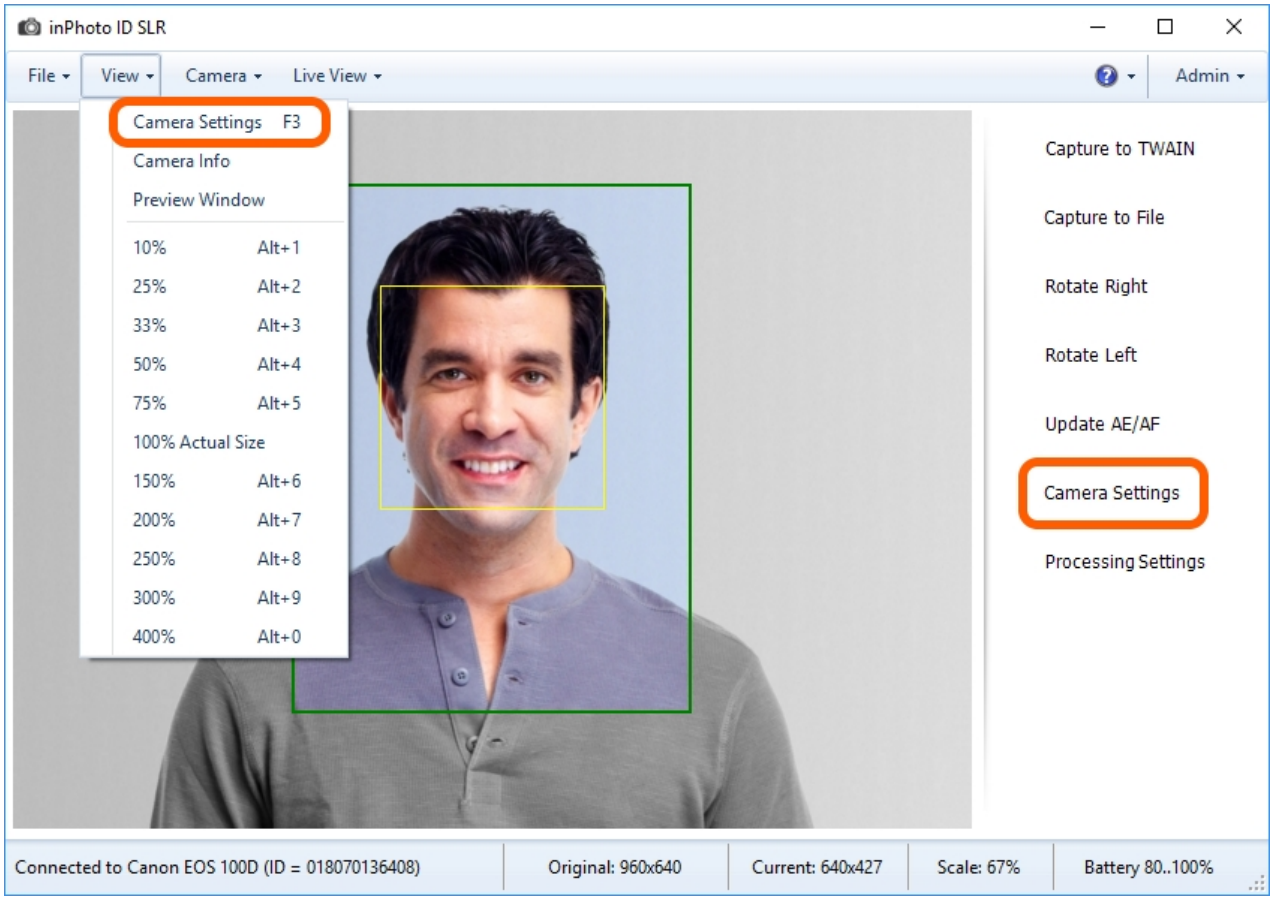
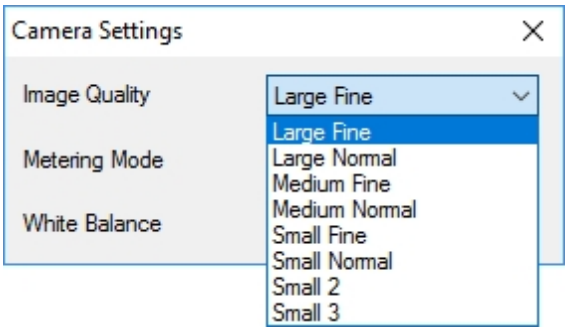


Image Quality allows to select the image-recording quality. The first word (**Large**, **Medium**, **Small**) is the image resolution. The number of resolution values and count pixel for them may vary and depends on the camera model. The second word or number (**Fine**, **Normal**, **2**, **3**) is the compression level.

The higher image quality, the larger image size and higher detailization. The lower image quality, the lower image detailization, but you save some memory card space.



The image quality affect processing speed and transferring speed via TWAIN-connection. The higher image quality, the lower speed of processing and transferring to a third-party application. And vice versa, the lower quality, the higher speed of processing and transferring via TWAIN-connection.

Metering Mode will let the photographer to choose the shot zone (scene) on the basis of which the metering will be made.

Metering is a measuring of luminance (brightness) of the subject. The exposure is calculated on the ground of the metering.

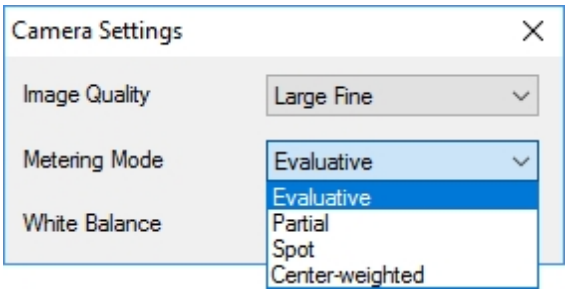
Exposure is an amount of light falling on the camera's matrix during a specific period of time. The exposure is the base for calculating an optimal combination of time-exposure, aperture, and ISO.

Evaluative is an estimation measuring that suits ordinary shooting conditions, including images in the backlight. With such a mode of measuring, the shot zone is divided into small zones, then the measurings of all the zones are associated and the average value is determined.

Partial is an partial measuring that defines the luminance using the zone into the metering circle in the viewfinder. It is applied when the edges of the image are much lighter or darker then the main subject.

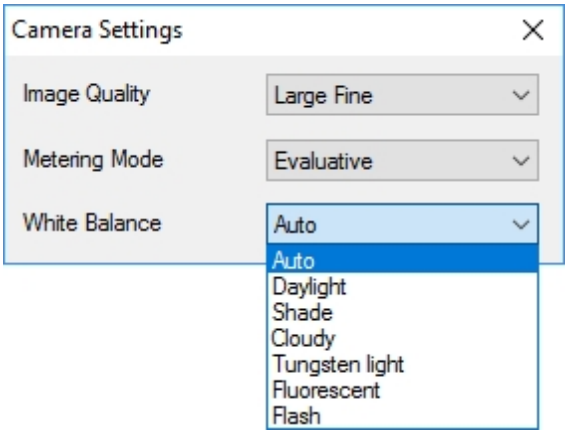
Spot is a point measuring that lets you choose the zone of measuring on the ground of one of the focusing point. It is applied when the luminance of the main subject strongly differs from the luminance of the background. The last one is not taken into account with such a mode of measuring.

Center is an averaged measuring reflecting all the scene, but making emphasis on the central zone. It is applied when the central zone of the shot is preferred, but the background is also important.



White balance is a parameter determining correct color reproduction on the image. The way you set the **White Balance** determines how close the colors of the image will be to the original colors of the subject. If the setting is incorrect, the image may have blue, green, yellow, red or other non-natural tone. The day light, for example, brings a blue tone to the image, the fluorescent light brings a green tone, the light of incandescent lamp brings a yellow tone, and the live fire light brings a red tone.

You can choose a white balance value for various light environments from the value list present in the camera settings.



Auto - automatic setting of the optimal white balance for specific shooting conditions

Daylight - for shooting outdoors in fine weather

Shade - for shooting outdoors in fine weather when the subject is in the shadow

Cloudy - for shooting outdoors in cloudy weather, in shadow or in dusk

Tungsten light - for shooting with fluorescent light or light of bulb incandescent lamp (3 waves)

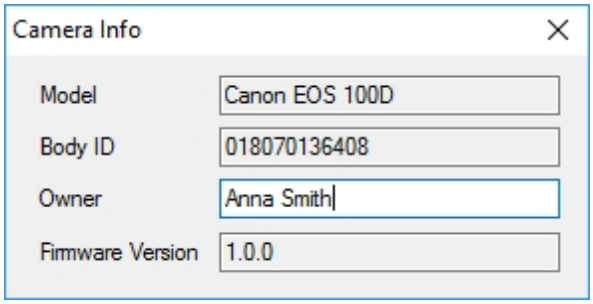
Fluorescent - for shooting with warm-white light, cold-white light or warm-white fluorescent (3 waves) light

Flash - the white balance is calibrated to the internal camera flash

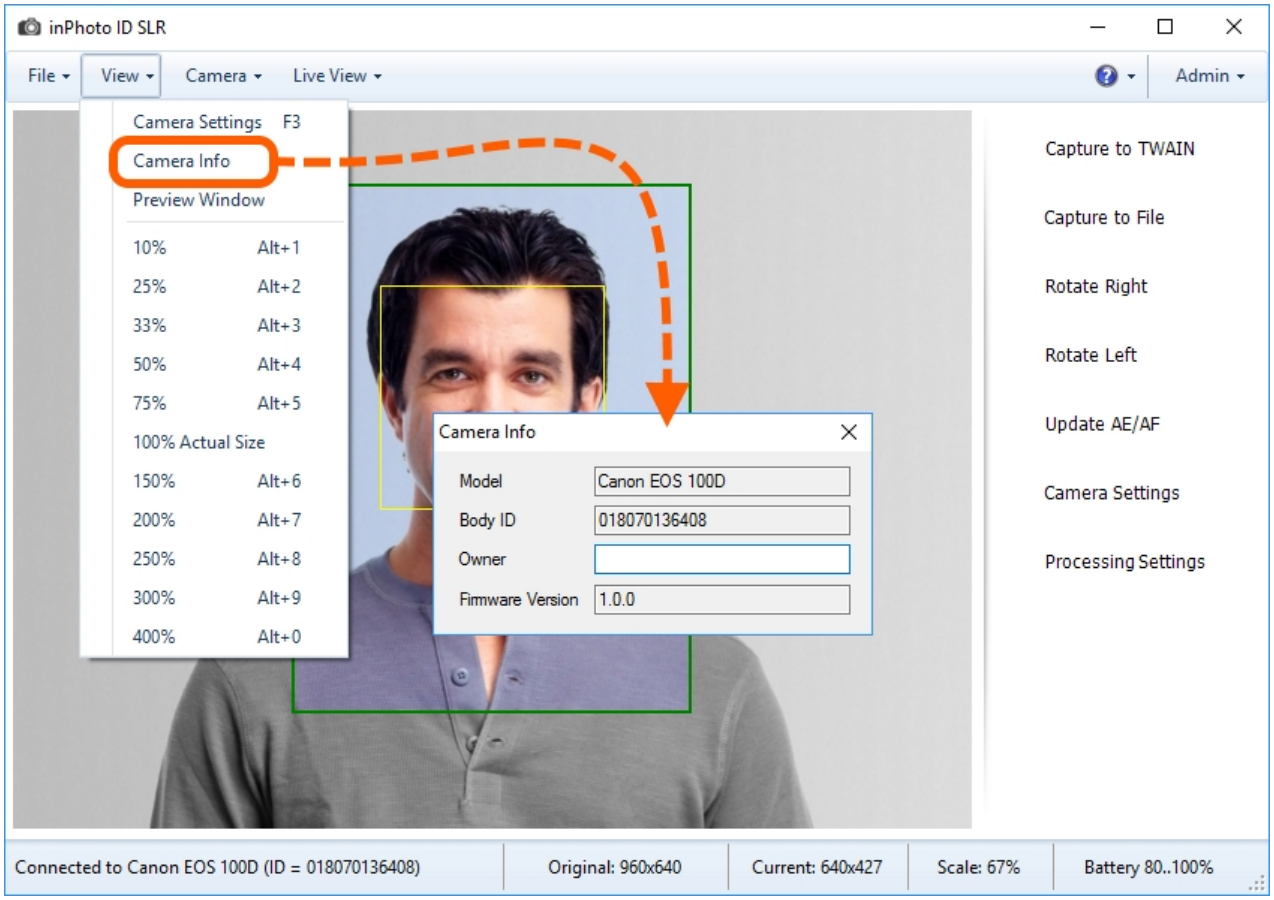
Camera Info

You can view information about the connected camera using the **Camera Info** command.

The command opens the window which provides the model name, the identification number, the owner`s name and the firmware version of the camera.

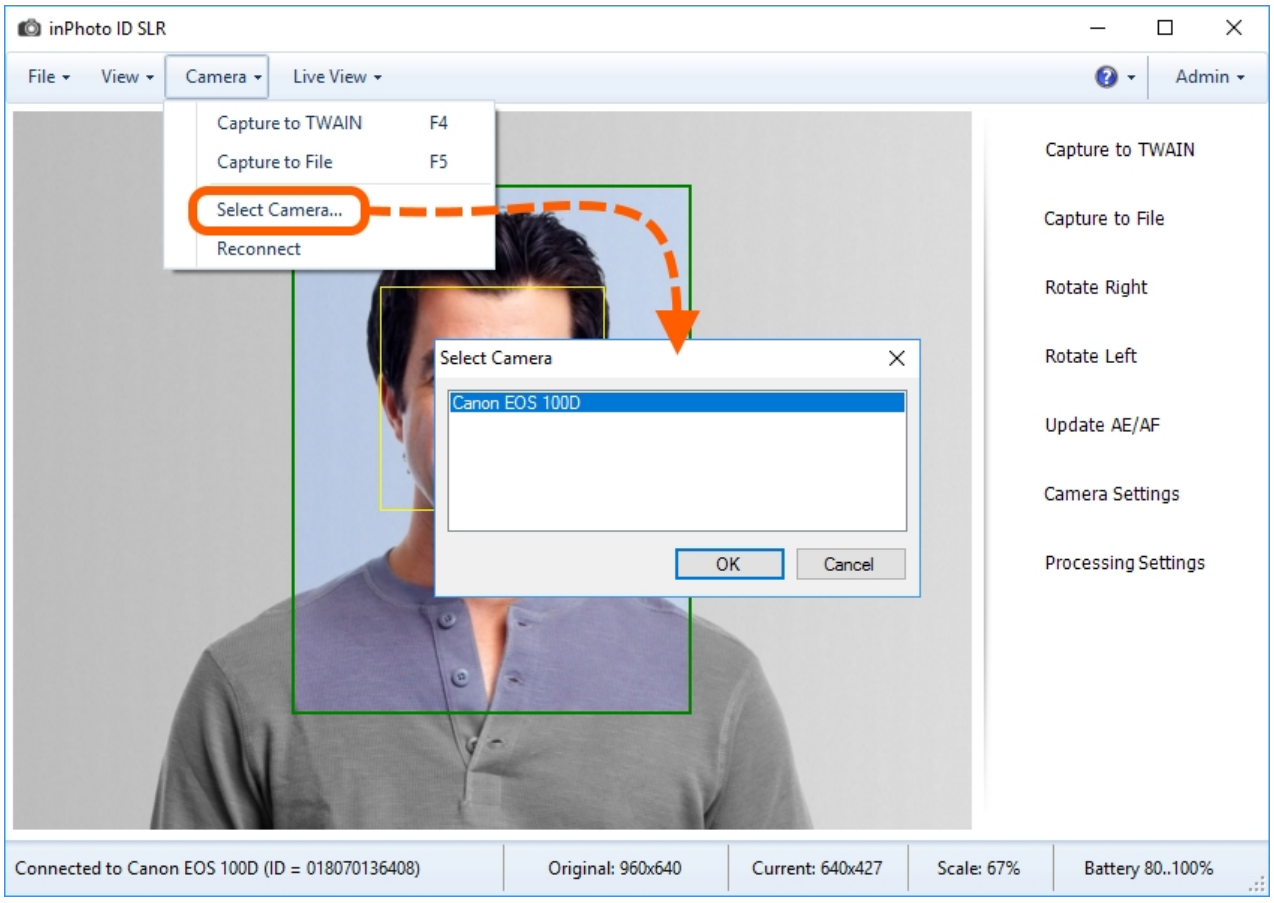


The **Camera Info** command is located in the main menu **View**.



Camera Selection

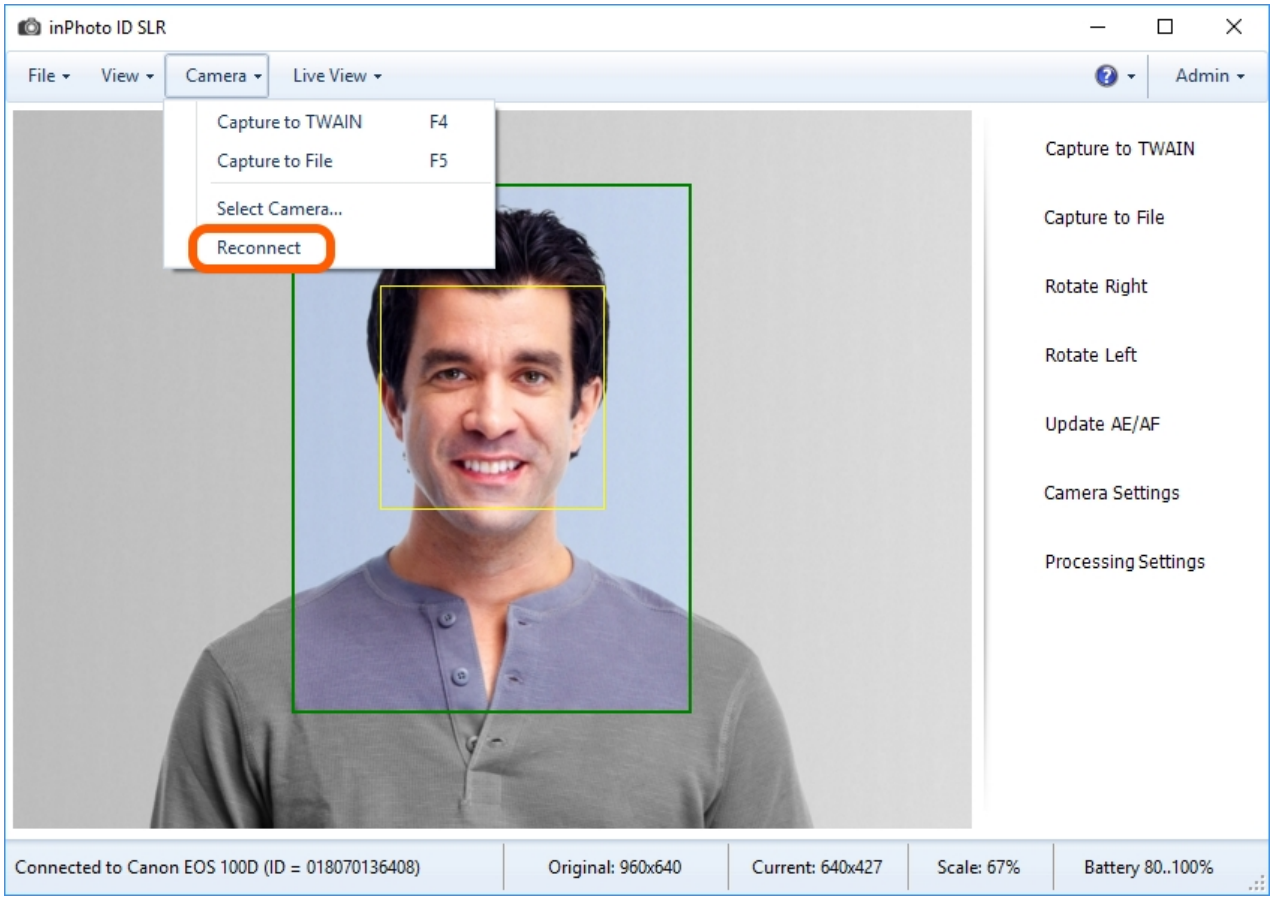
If several cameras are connected to the PC you can open the **Select Camera** dialogue and connect the right camera to the program. The dialogue is launched via the **Camera** main menu > the **Select camera** item. The dialogue contains a list of all cameras connected to the PC. Select the right camera from the list and press the **OK** button.



Upon a new start, **inPhoto ID SLR** automatically connects to the camera which has been connected the last before closing the previous program session.

Camera Reconnection

If any problems have been occurred during camera working or connecting to the program - please use the **Camera** item > **Reconnect**. The command executes switching on/off the camera that usually helps.



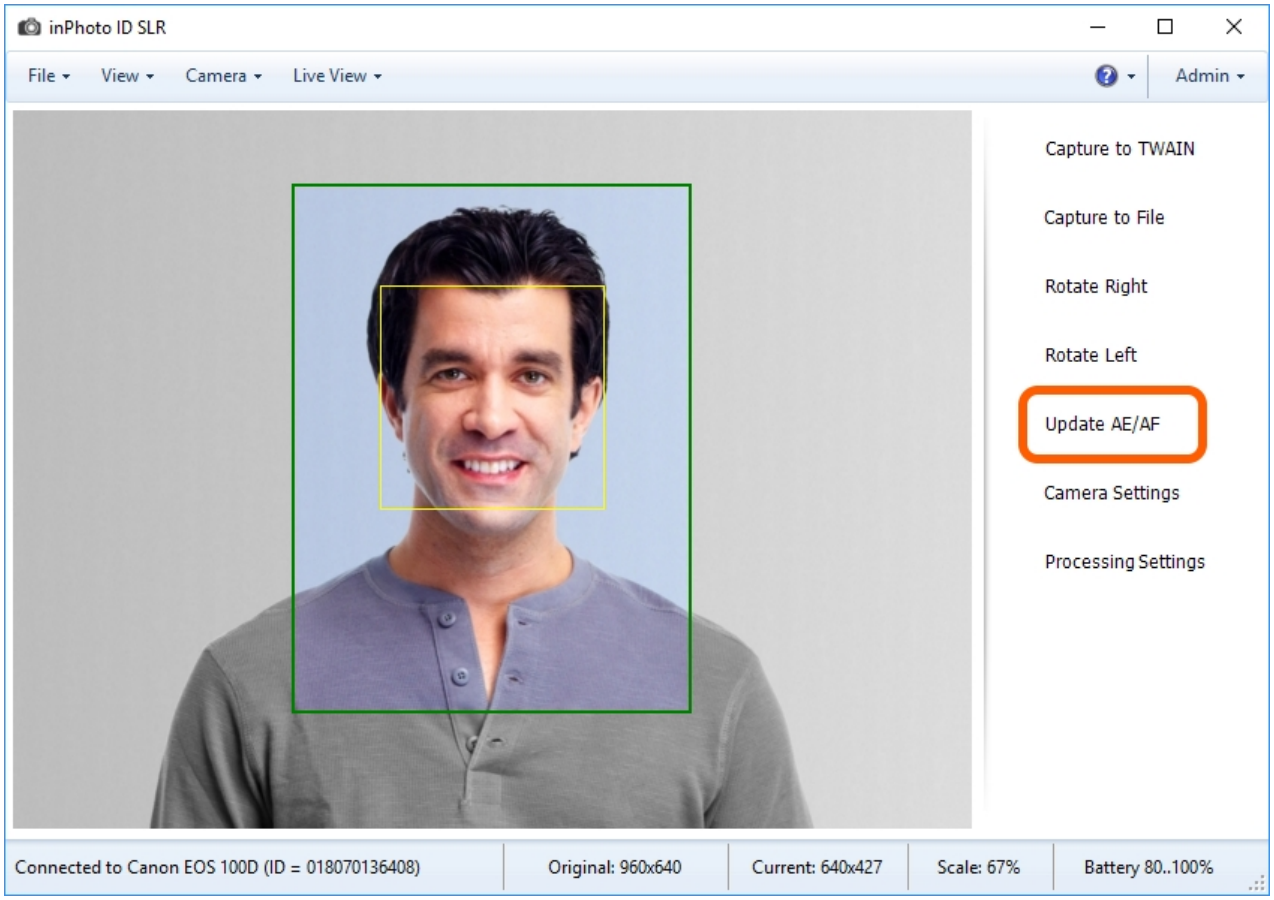
Update AE/AF

Updating Camera Autoexposure and Autofocus

The exposure and focus are automatically determined by most cameras. The mechanisms that calculate them are named respectively: autoexposure and autofocus.

Autoexposure *is an automatic camera mechanism that determines the shutter speed and the diaphragm depending on the light conditions.*
Autofocus *is an automatic camera mechanism that determines the focal length to shoot the most sharp picture.*

If failures occurs in determining focus or exposure, the mechanism of automatic setting of the camera parameters may be restarted. Under **inPhoto ID SLR**, this mechanism is launched by the **Update AE/AF** command. The **Update AE/AF** command is located in the **Camera** main menu. Also by default, the command is placed in the side menu.



Chapter 4. Preview

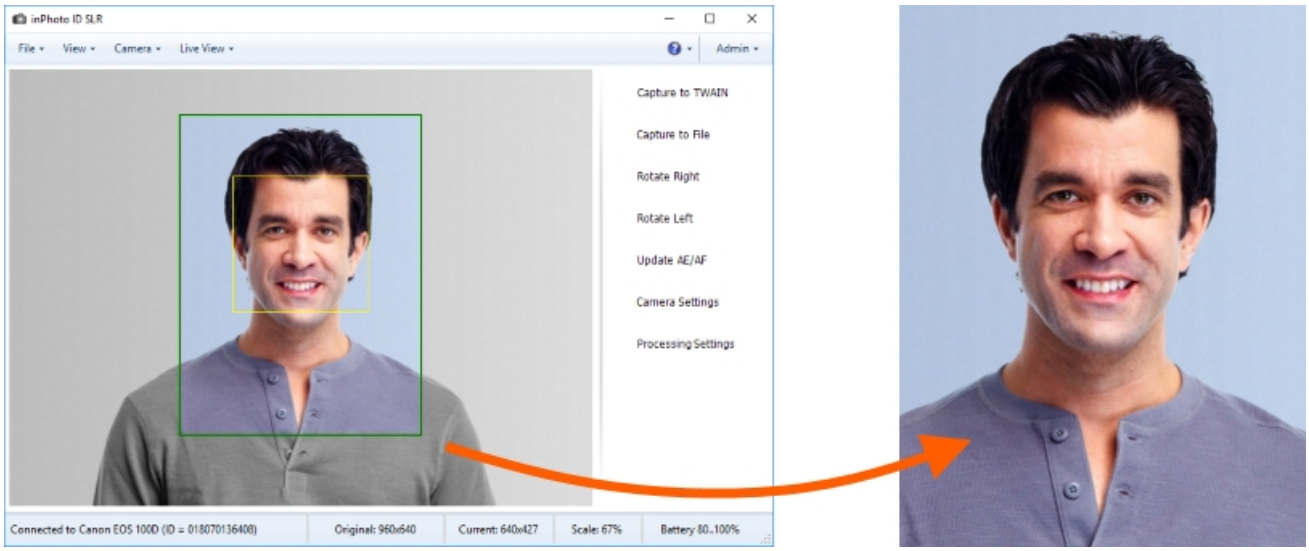
In the preview pane, you can see in real time the image passed by the camera with all your predefined settings.

The preview allows you to imagine before shooting how the image will look with the current camera and processing settings.

If you change the camera and processing settings that affect the image, you will immediately see it in the preview.

Hereinafter, the preview area will also be referred to as "preview".

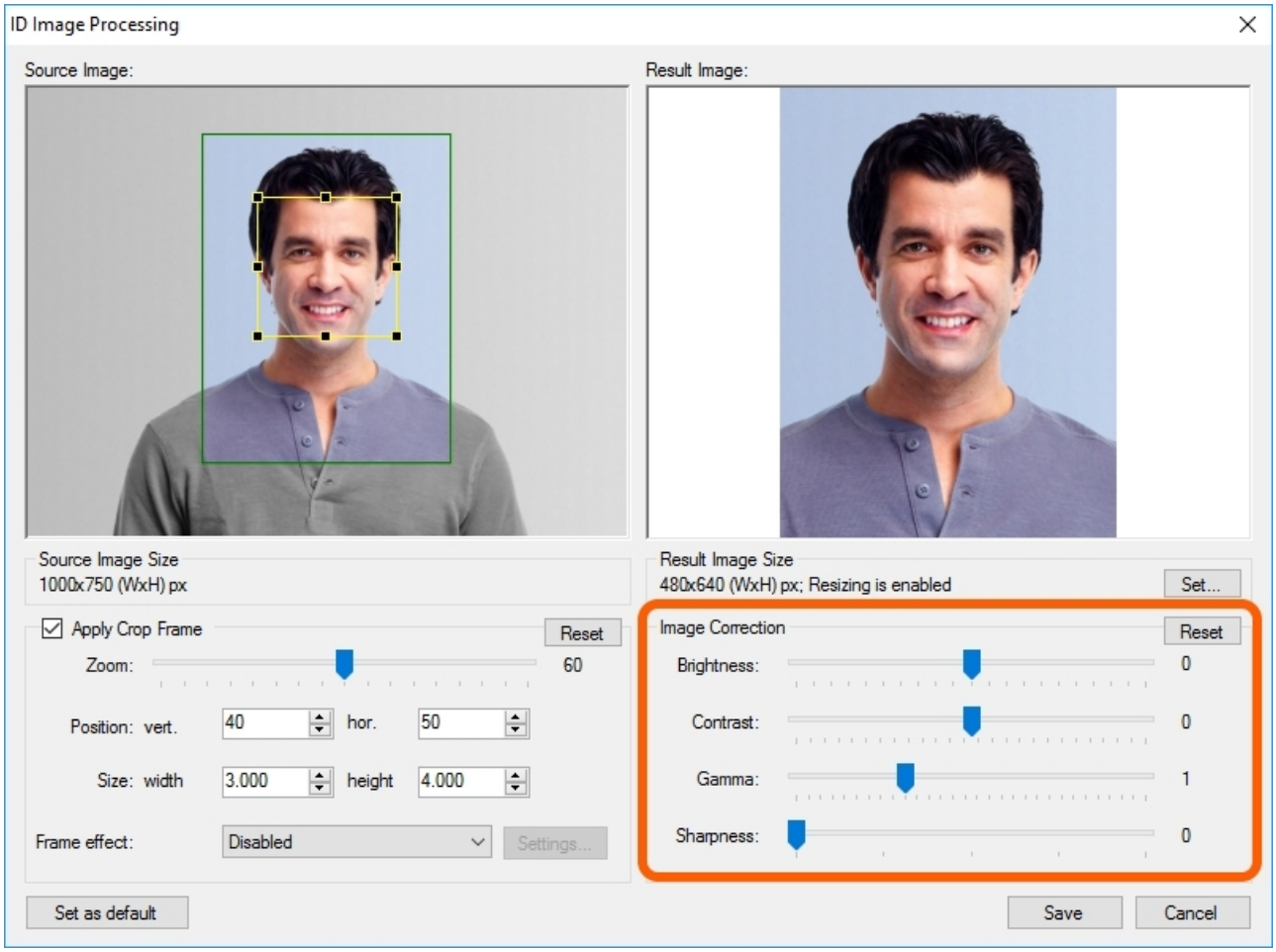
*All cameras supported by **inPhoto ID SLR** translate preview except **Canon EOS 40D**.*



The camera settings are described in details in the **Camera** chapter, the **Camera Settings** section.

The processing settings that affect the image in the preview are the shot development settings. The shot development settings are present in the preview as two frames one of which highlights the face field and the second one marks the border of the shot that will be made as the result of processing. Face searching and shot development as well as the preview work in real time and if the target object is moving, the frames will follow it and re-develop the shot depending on the new position of the target person. If the shot development settings are to be changed, the frames positions will change according to the new settings. The face searching and related settings will be described in details further in this chapter, section **Auto Face Detection**, and in the following chapter, section **Frame Setting**.

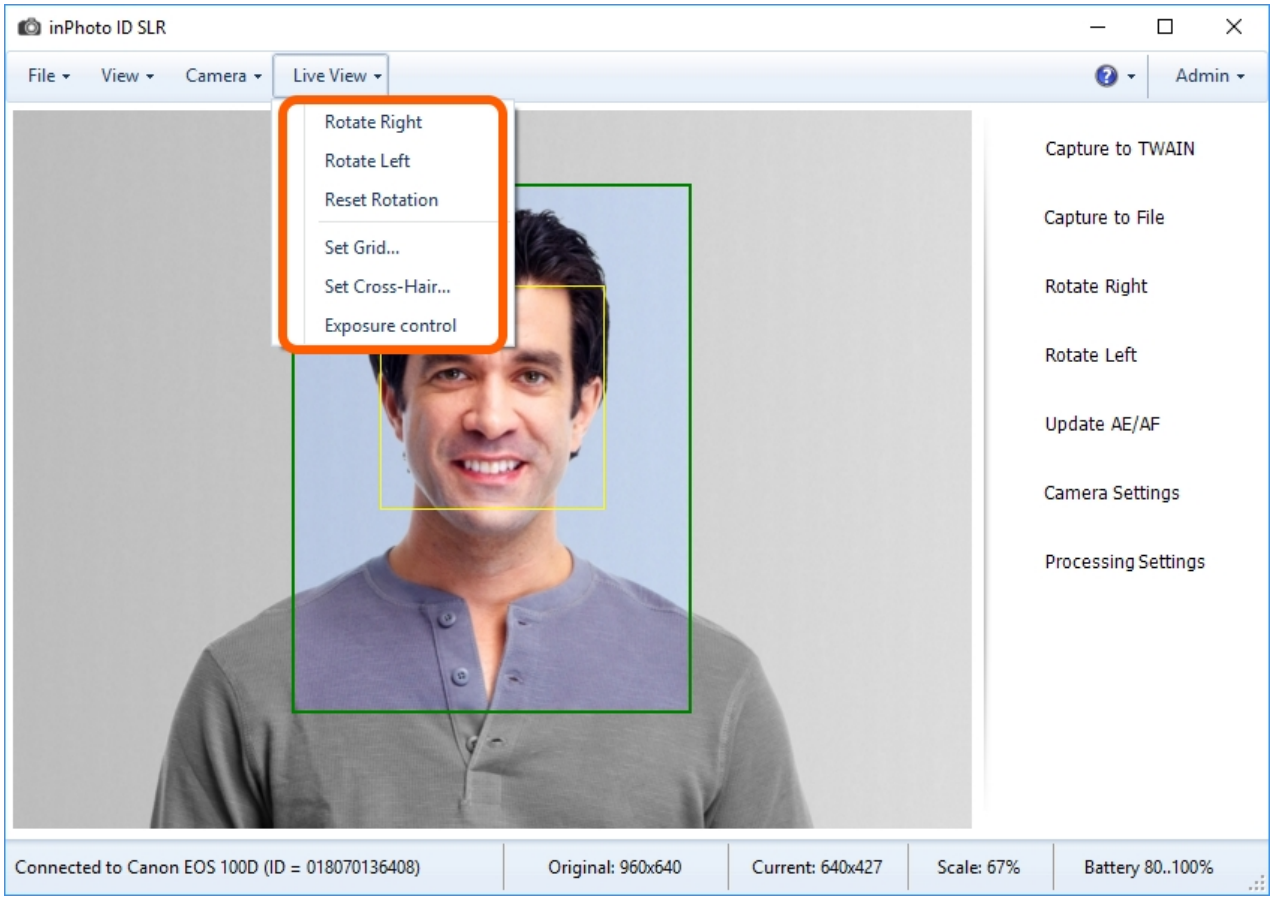
The single group of settings affecting the image, but not present in the preview is correction settings in **inPhoto ID SLR**, i.e.: brightness, contrast, latitude, sharpness, and black-and-white imagery. In the preview, the application reproduces the image received from the camera and shows the correction settings set for the camera. The application correction settings are available to be set directly in the process of processing in the image processing dialogue.



You can read more details on the **ID Image Processing** dialogue and correction settings in the **General Settings**, **ID Image Processing dialogue**, **Image Correction** and **Actions** sections.

Tools

For comfortable work with preview, we added some tools into **inPhoto ID SLR** that help to position the target person according to requirements to an ID photo, change the image orientation and select correct lightness. The use of the tools will be described in details further in the **Tools** section.



The contents of the chapter are as follows:

Preview Resolution

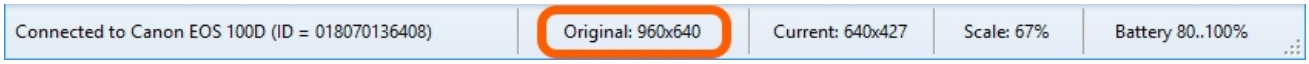
Auto Face Detection

Preview in a Separate Window

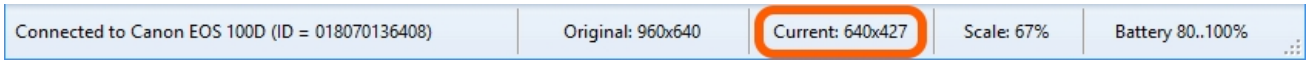
Tools

Preview Resolution

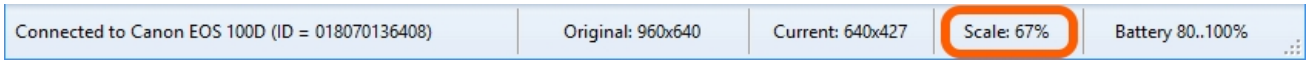
The resolution of the preliminary image that the camera transmits to **inPhoto ID SLR** depends on the camera model. The info on resolution is stated in the status bar of **inPhoto ID SLR**, the **Original** section.



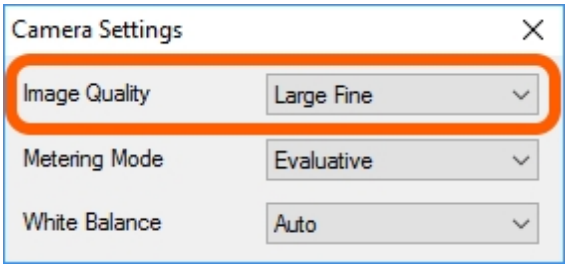
The image resolution in the **inPhoto ID SLR** preview depends on the application window size. You can change the resolution in the application preview by changing the window size. Information on the image resolution in the application preview is stated in the status bar of the **Current** section.



In the **Scale** section of the status bar, there is an indication of the resolution ratio of the image passed by the camera to the image showed in the **inPhoto ID SLR** preview. For example, you may see on the screenshot below that the scale is 67% that means the application preview image is twice larger than the one received from the camera preview.



The preview resolution is out of all relation to the shot image resolution. The resolution the camera will make a shot with is stated in the main menu **View** -> **Camera Settings** -> **Image Quality** setting.



It is important to understand that the resolution of the preliminary image received from the camera, the resolution of the image shown in the application preview, the resolution of the image made by the camera and the resolution of the image received as the result of processing, they are four different values.

Auto Face Detection

The mechanism of the face detection performs the following: it detects the face area on image, it calculates the area of the future processed photo on the basis of the face area and shows the borders of the face area and the area of the future ID photo on the preview.

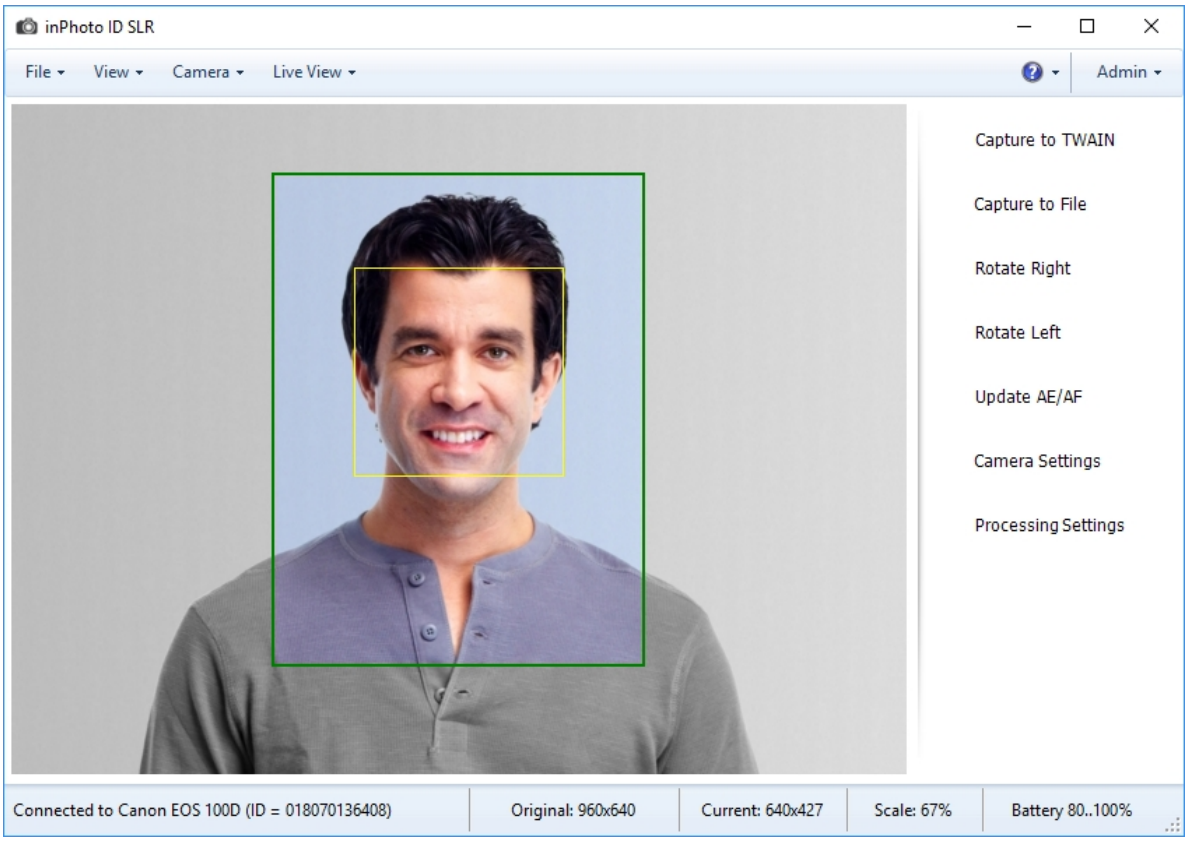
Hereinafter, the preview area will also be referred to as "preview".

The area of the future photo calculated on the basis of the settings selected by the user. The user can set such parameters of the future photo as dimensions, proportions (the form of the shot), the face location in the shot (stricIty at the center or closer to the shot border), zoom for area occupied by a face in the shot (the face can take a larger or a smaller part of image).

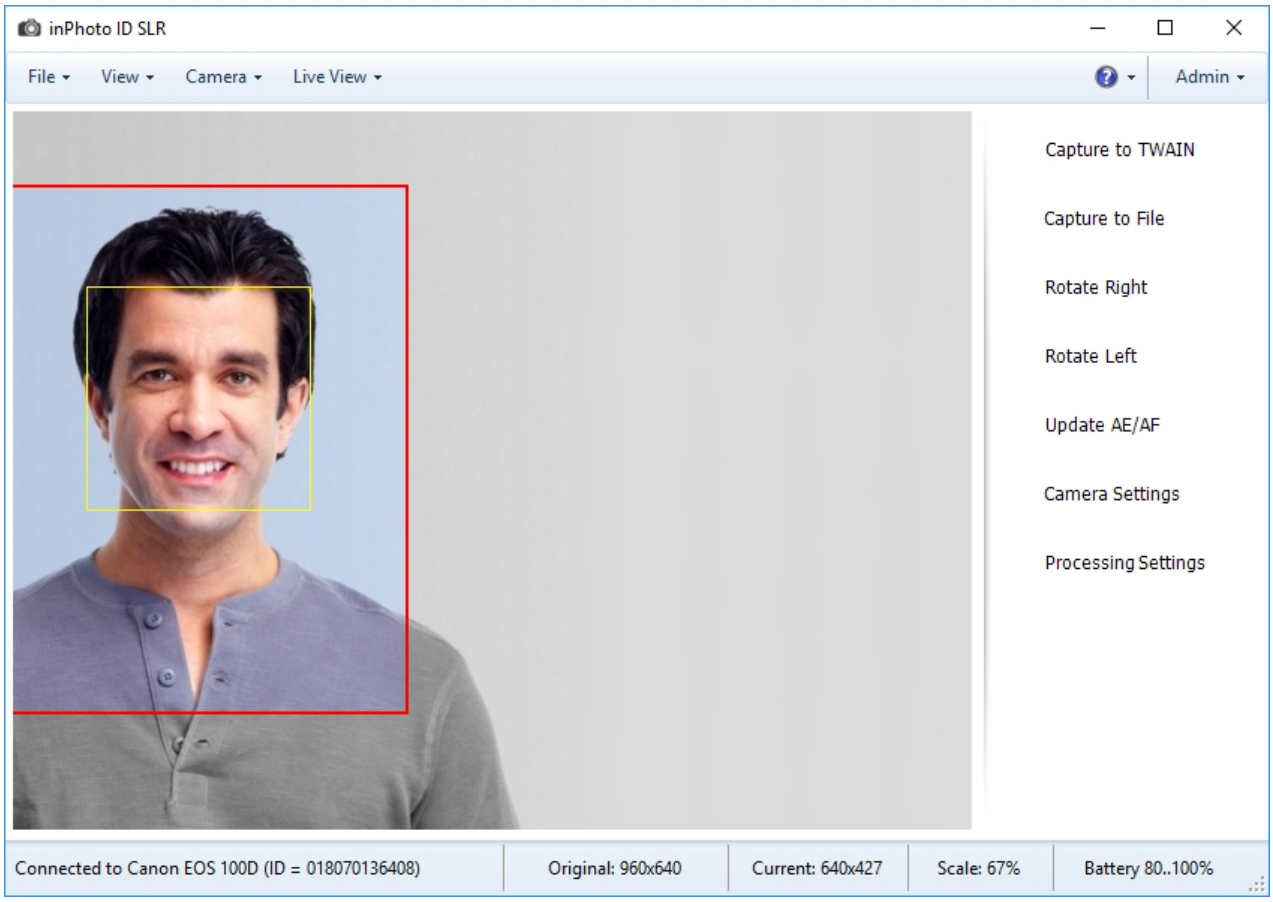
To get more info about frame building, please see in the **Frame Setting** section.

On the preview, the face area is highlighted with a yellow frame. There will be no frame if no face is detected or the face detection is disabled in the program settings.

The area of the future processed photo also has a frame around on the preview, but green. The image will be cropped on the basis of this frame.

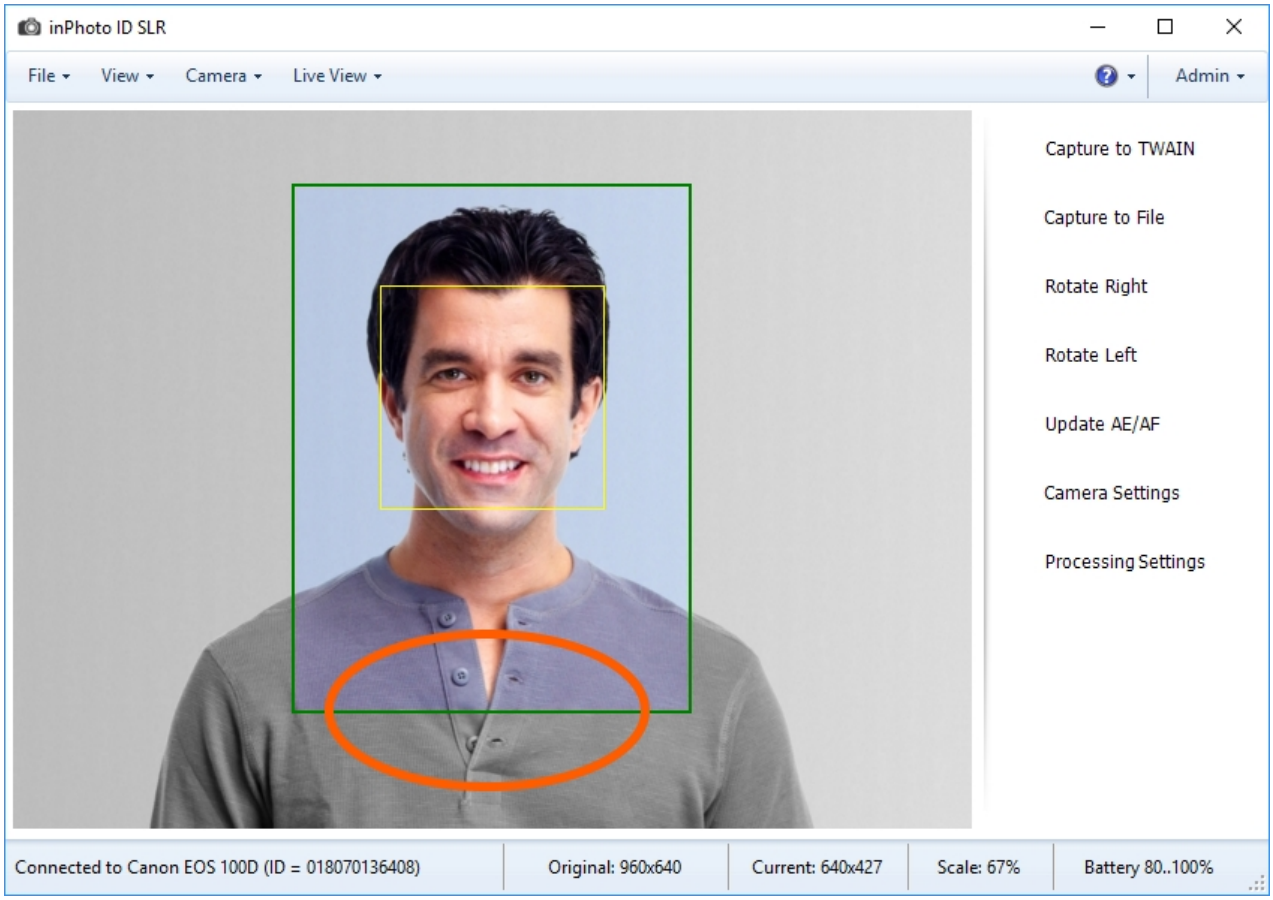


The frame of the future photo may change color to red; it means that the distance between the frame and the edge of the image is less then you have set in the settings. It may take place if the face is located too close to the edge of the photo.

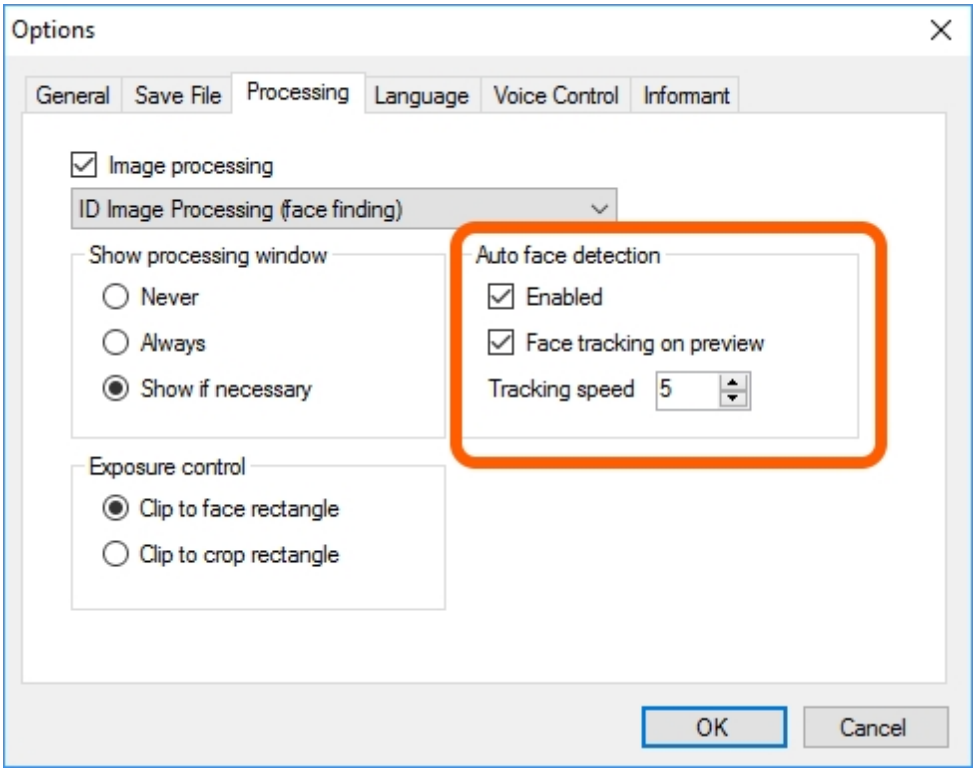


If the face detection is enabled, the image on the preview will be divided into two areas: color and black/white. The area located inside the image frame is displayed in natural colors. The area located outside the image frame and will be cropped after processing is displayed in black and white. Such a mechanism gives you a better view of the future processed image.

On the picture below, the highlighted fragment illustrates the difference in colors between the frame inside and outside areas.



The settings for the face detection are located in the **File** menu > **Options** > the **Processing** tab > the **Auto face detection** item.



Let's describe function of the each setting.

Enabled switches on/off the face detection, both for to the preview and for the processing. If **Enabled** is off all settings related to the face detection and frame building won`t be applied to the image.

Face tracking on preview switches on/off the face detection only on the preview. The setting doesn`t affect image processing.

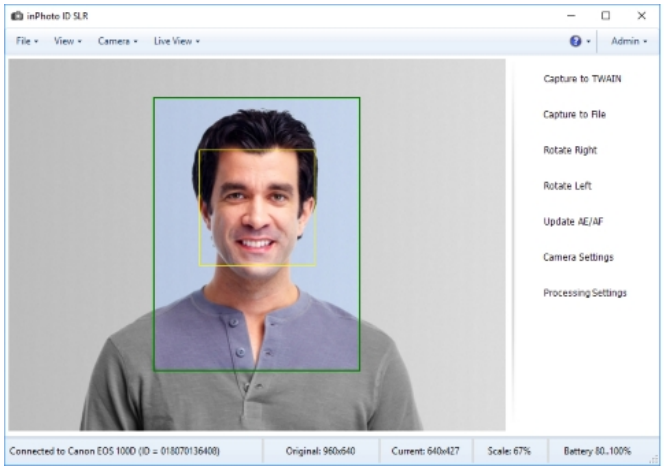
Tracking speed sets the frame number in the frame stream received from the camera where a face is to be found. By default, the tracking speed is set to 6; it means that the program will search face on every sixth frame received from the camera. For example, if the value is 10, the tracking speed will be lower because the search will be executed only on every tenth frame. Decreasing the search speed reduces charge on your PC. Increasing the tracking speed may be needed if the image changes rapidly. So, the setting helps you to choose the optimal tracking speed according to the shooting conditions and capabilities of your PC.

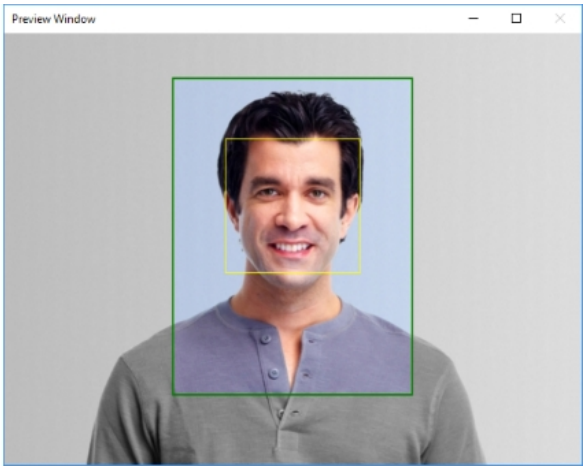
Preview in a Separate Window

In **inPhoto ID SLR**, the preview pane may be open in two windows, in the main window and in a separate window.

Hereinafter, the preview area will also be referred to as "preview".

So you can place the preview on two displays. It's convenient to see a preliminary image on two displays simultaneously when, for example, one of them is used by the photographer and the second one is turned to the person being photographed. Thanks to the fact that the target person can see himself in the preview, he may take more natural appearance and feel himself calmer because of knowing what image will result.





You can open\close the preview in a separate window using the **Preview Window** command placed in the main menu **View**.

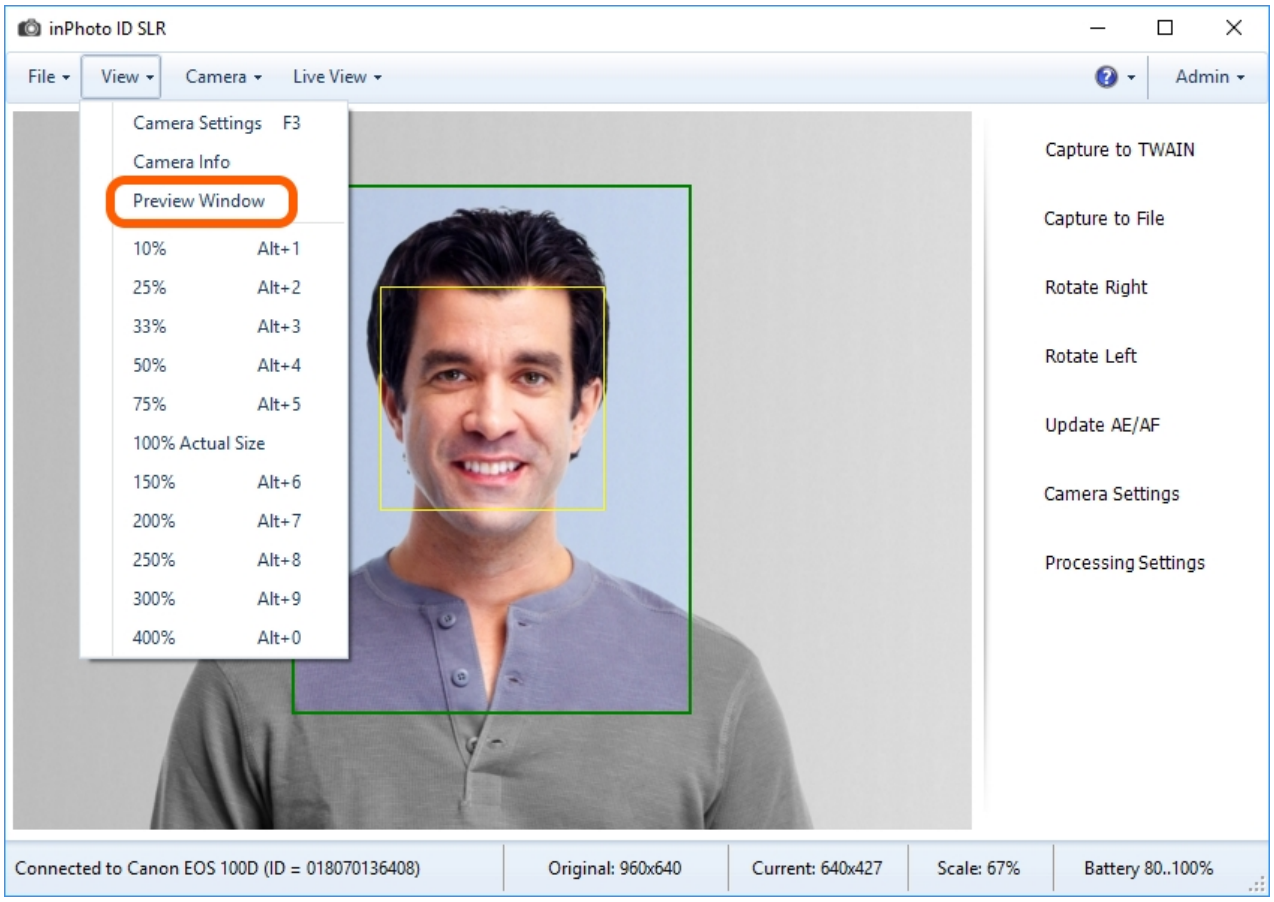
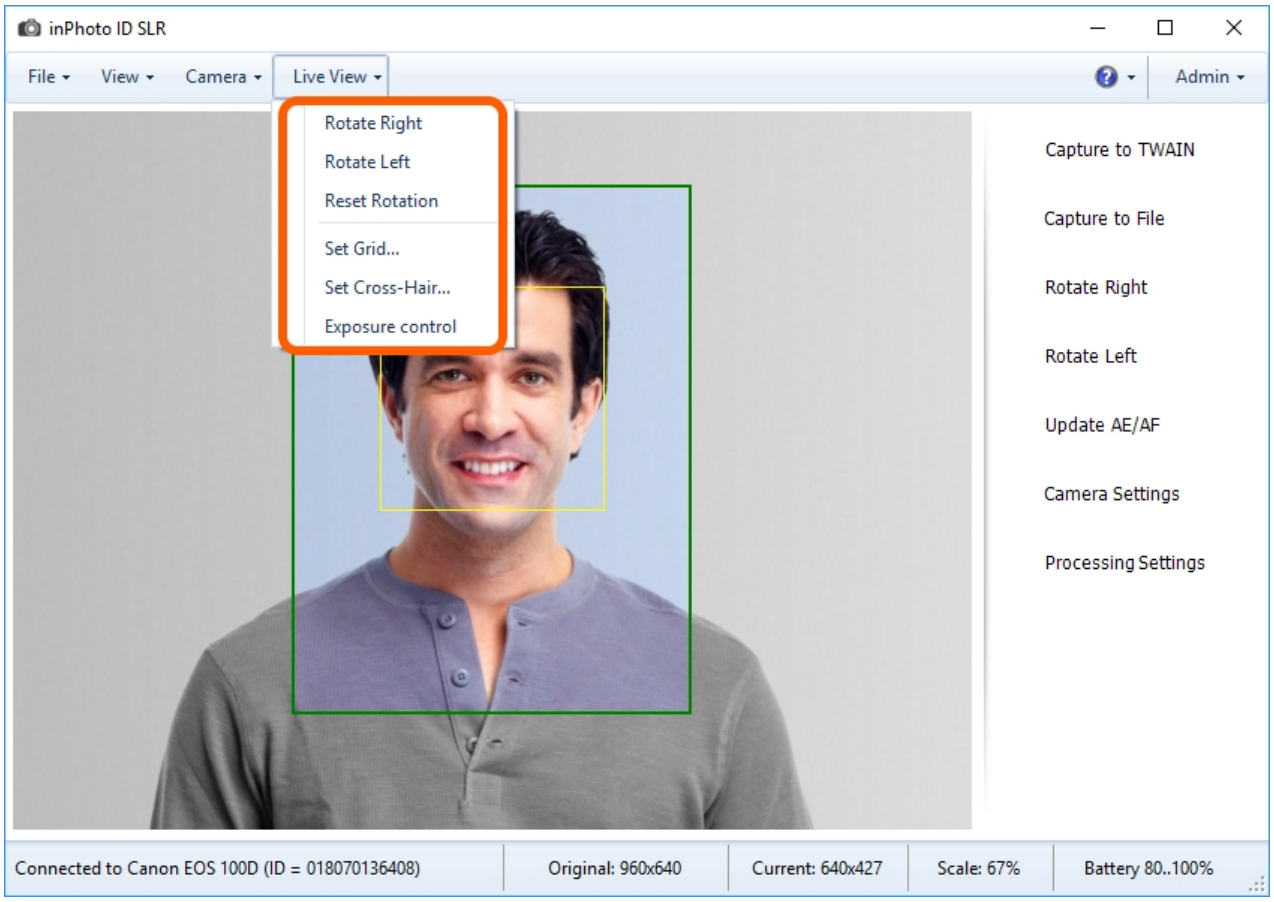


Image previewing in a separate window is performed the same way as in the application main window.

The size of the preview separate window are not constant and you can therefore adjust the window according to your needs and display's dimensions.

Tools

The tools for the preview are located in the **Live View** menu.



Let's take a look at the function of each tool.

Rotate Right/Left rotate image by 90 degrees to the right or to the left. The image rotation is displayed on the preview and is taken into account in processing.

Reset Rotation is used to quickly return image to original position after one or several rotations.

The following set of tools is designed to work with exposure and lighting in the shot:

Composition is the harmonious placing of the various image elements according to the author`s intention and allowing to fully deliver him thoughts and feelings to the viewer.

Grid

Cross-Hair

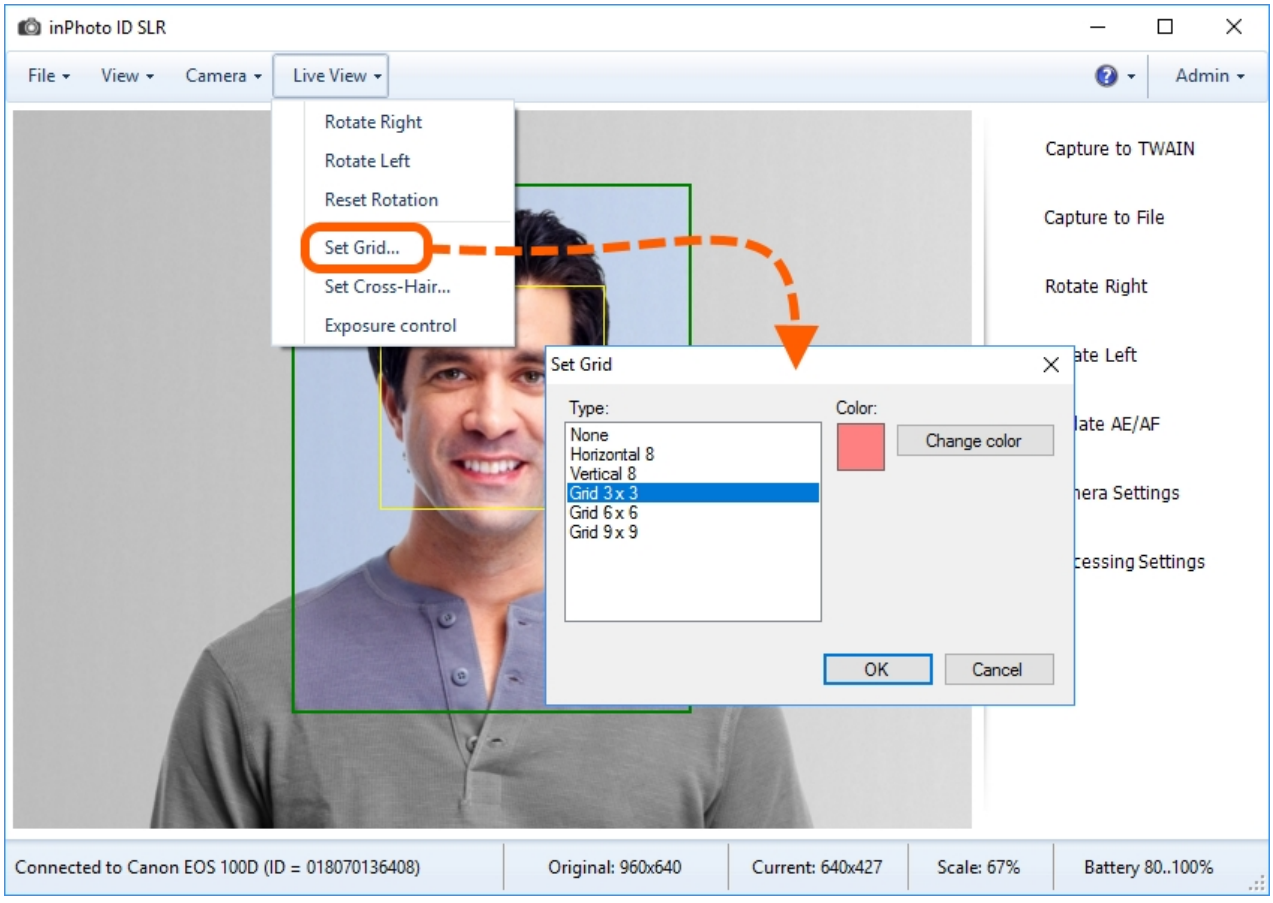
Exposure Control

Grid

The grid is non-printing horizontal and vertical lines covering image. The lines help photographer to align the basic elements of the photo vertically and horizontally. In case of portrait photography, they usually align shoulders and head slope.

> *The grid 3 x3 is the most used; it consist of two vertical and two horizontal lines. It is felt that if you look at a photo your eye is focusing its attention on the lines dividing image into thirds. Photographers call this the " Rule of Three Thirds". Images look more interesting and harmonious if the basic objects are placed at the borders of the thirds. For portrait photography, this rule is applied to reveal and emphasize the face features. As usual, the eyes and the lips are typically placed on the "attention" lines.*

You can select type and color in the **Set Grid** dialogue. To open the dialogue, go to the **Live View** menu and select **Set Grid**.



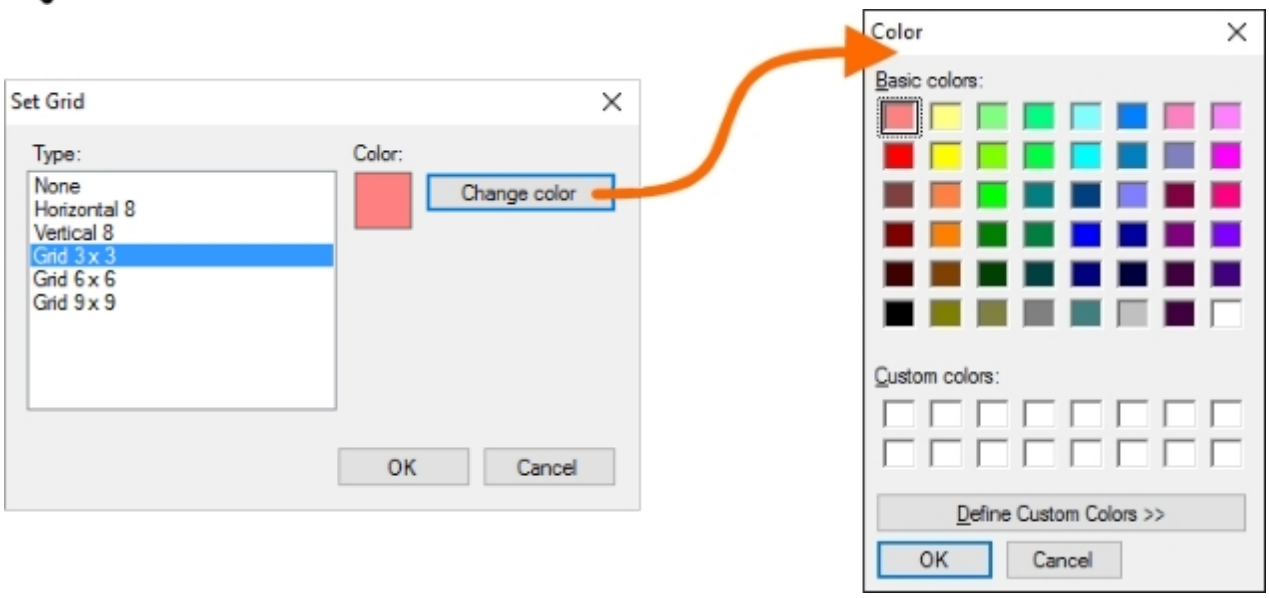
Dialogue Elements:

Type is a list of the grid types. The list includes both the grids with the lines of different frequency and just the horizontal and vertical lines.

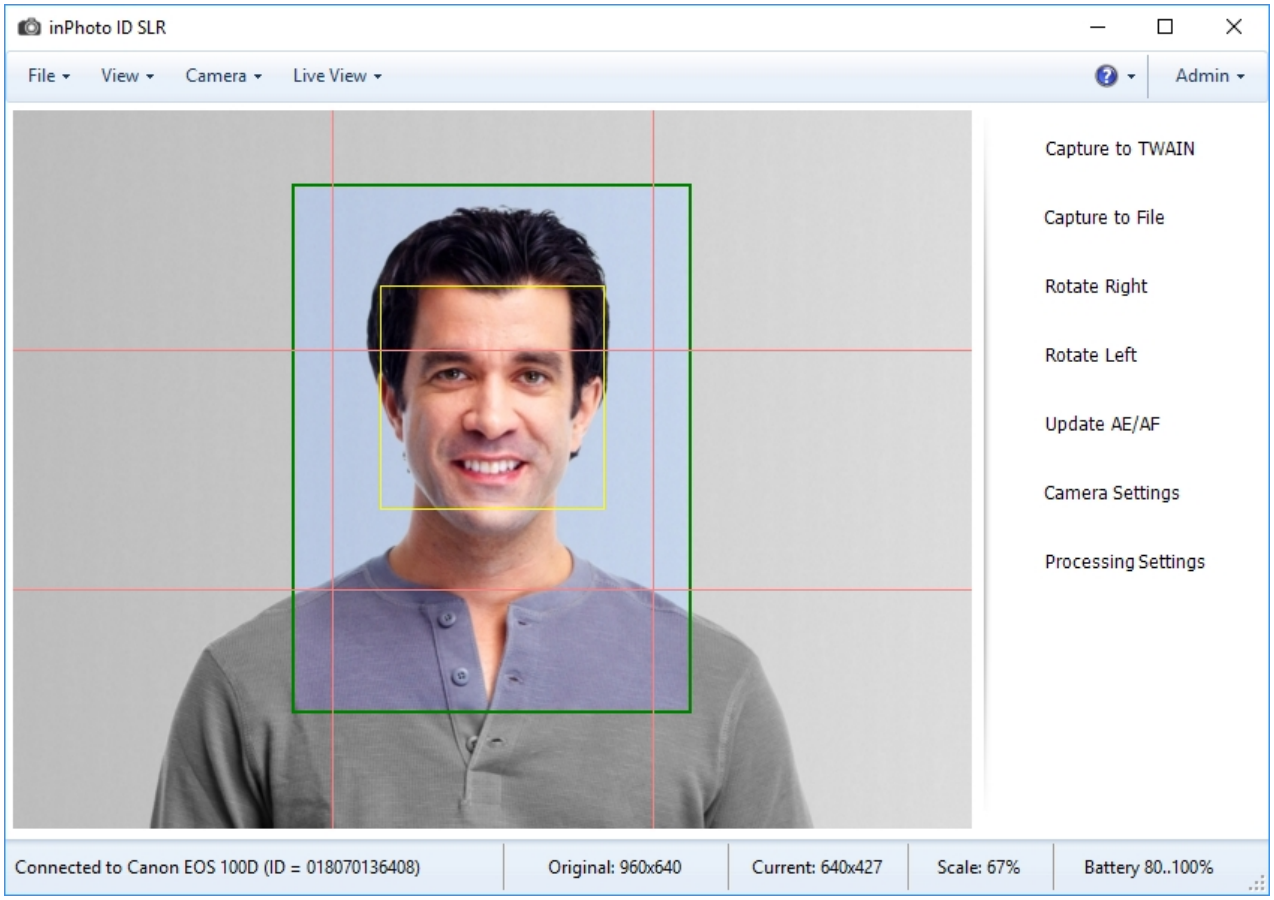
Color shows current color of the grid lines.

Change color open a system dialogue for color selection.

It is the most convenient to select colors contrasting with image for the grid.

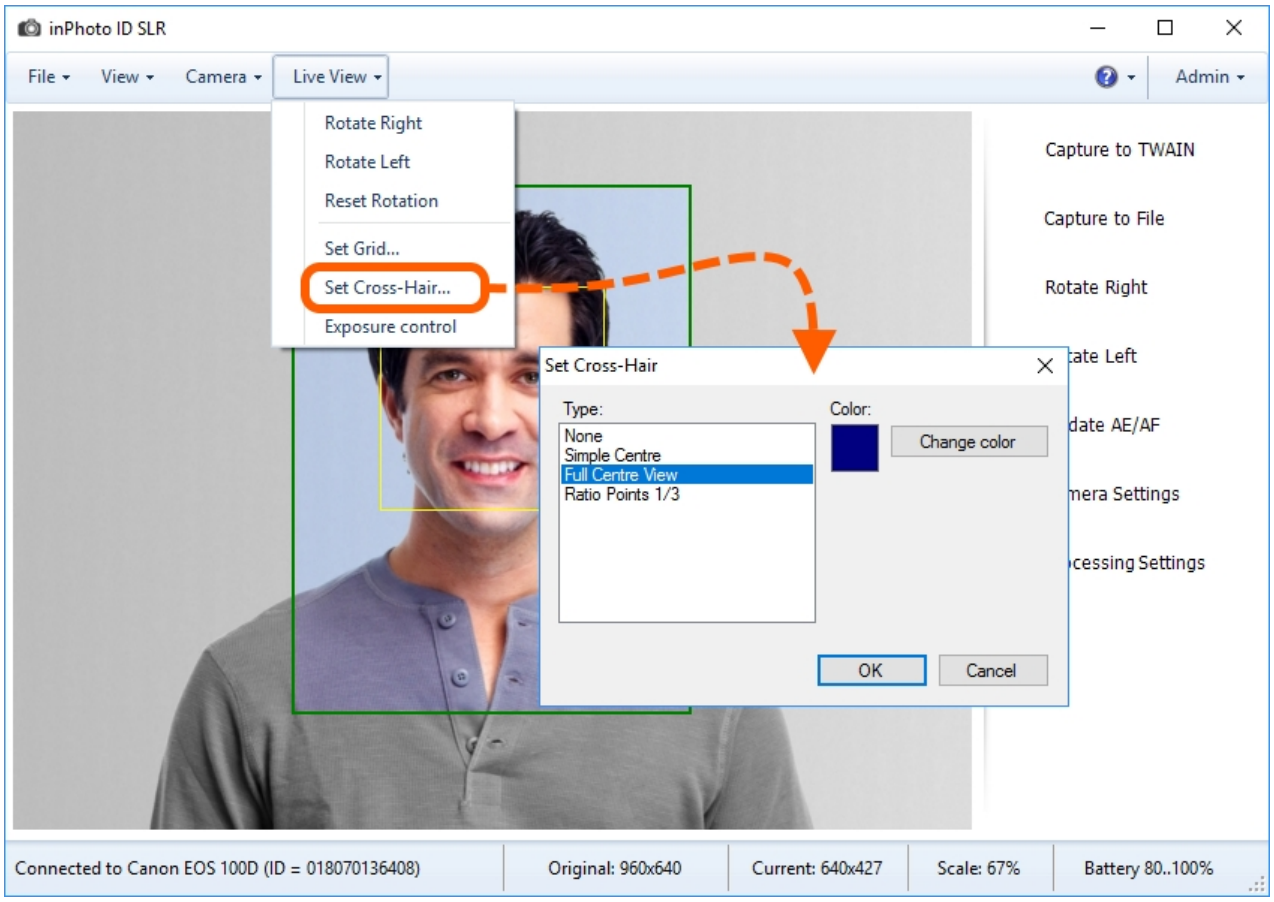


The result of the selected settings is shown in the picture below.

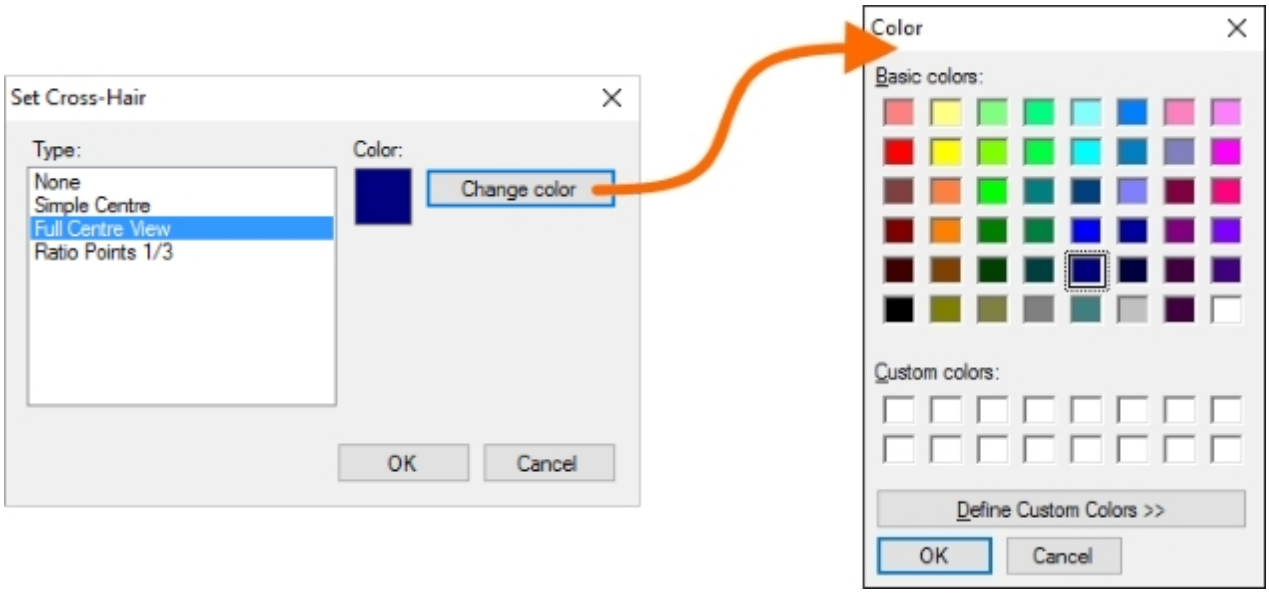


Cross-Hair

Cross-Hair set the center of the image or crossing points of the grid lines.



You can select type and color in the **Set Cross-Hair** dialogue. To open the dialogue, go to the **Live View** menu and select **Set Cross-Hair**.



Dialogue Elements:

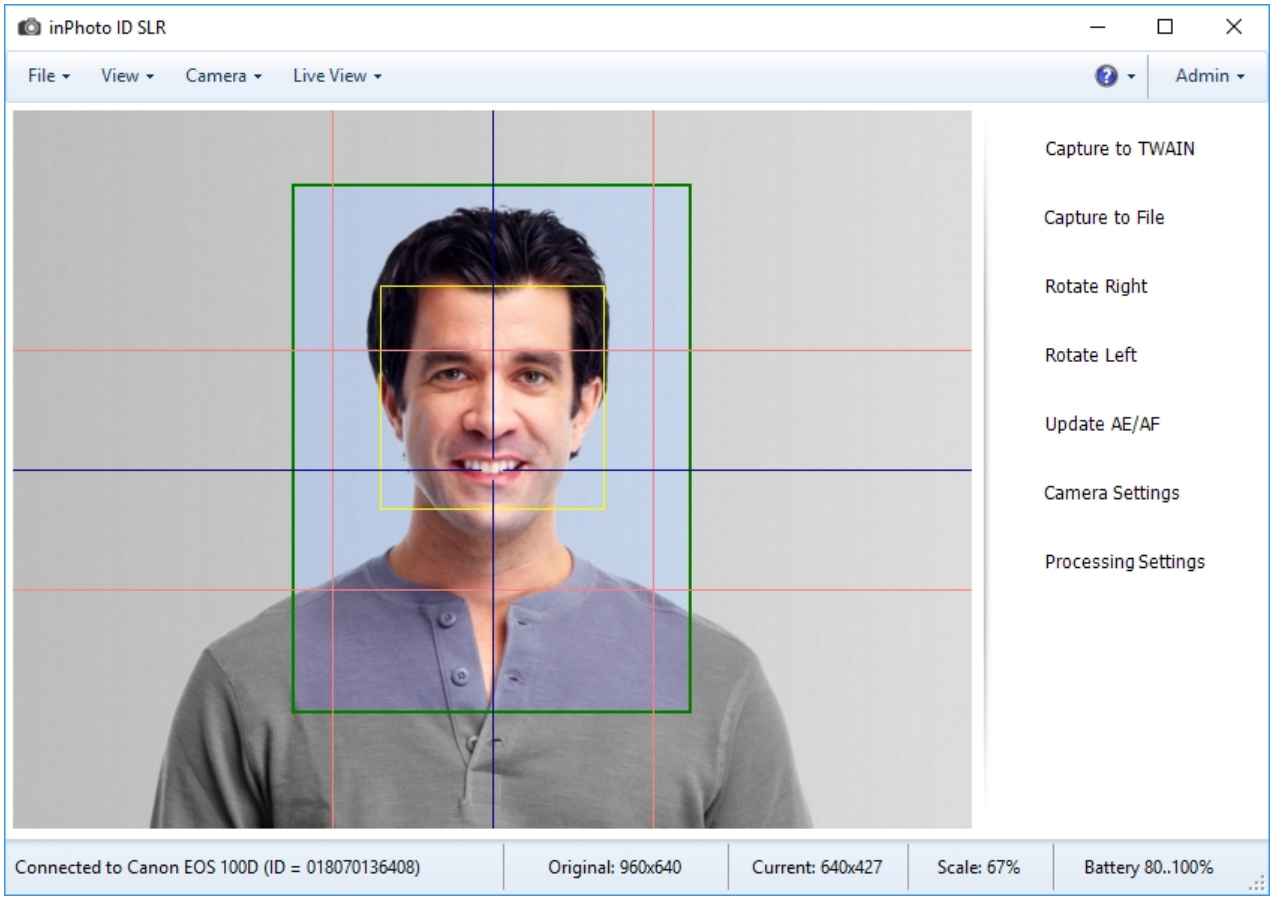
Type is a list of the cross-hair types. The list includes two cross-hair types that mark the center of the frame and one cross-hair type that marks crossing points of the grid lines.

Color shows current color of the cross-hair lines.

Change color open a system dialogue for color selection.

It is the most convenient to select colors contrasting with image for the grid and the cross-hair.

The result of the grid and the cross-hair applied is shown in the picture below.

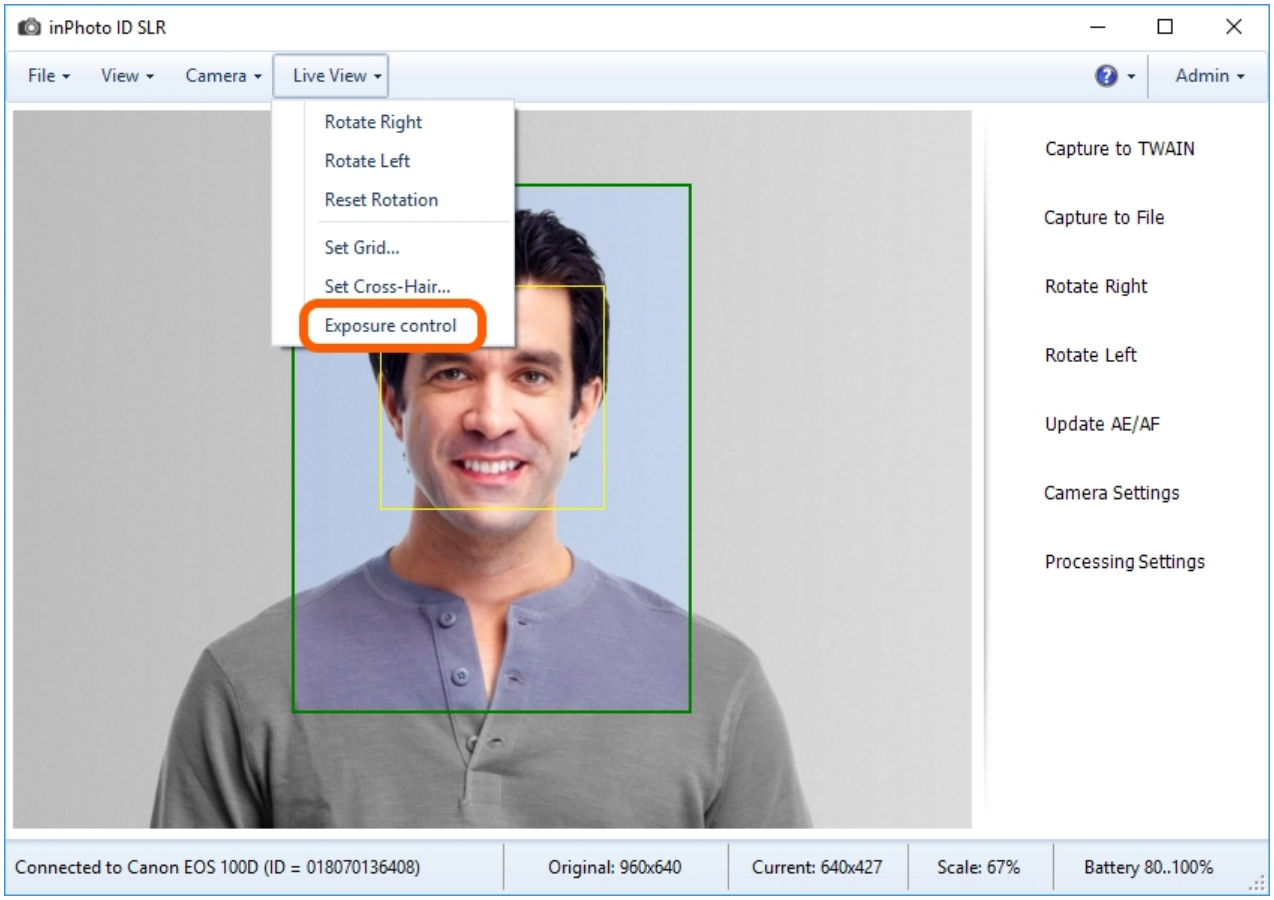


Exposure Control

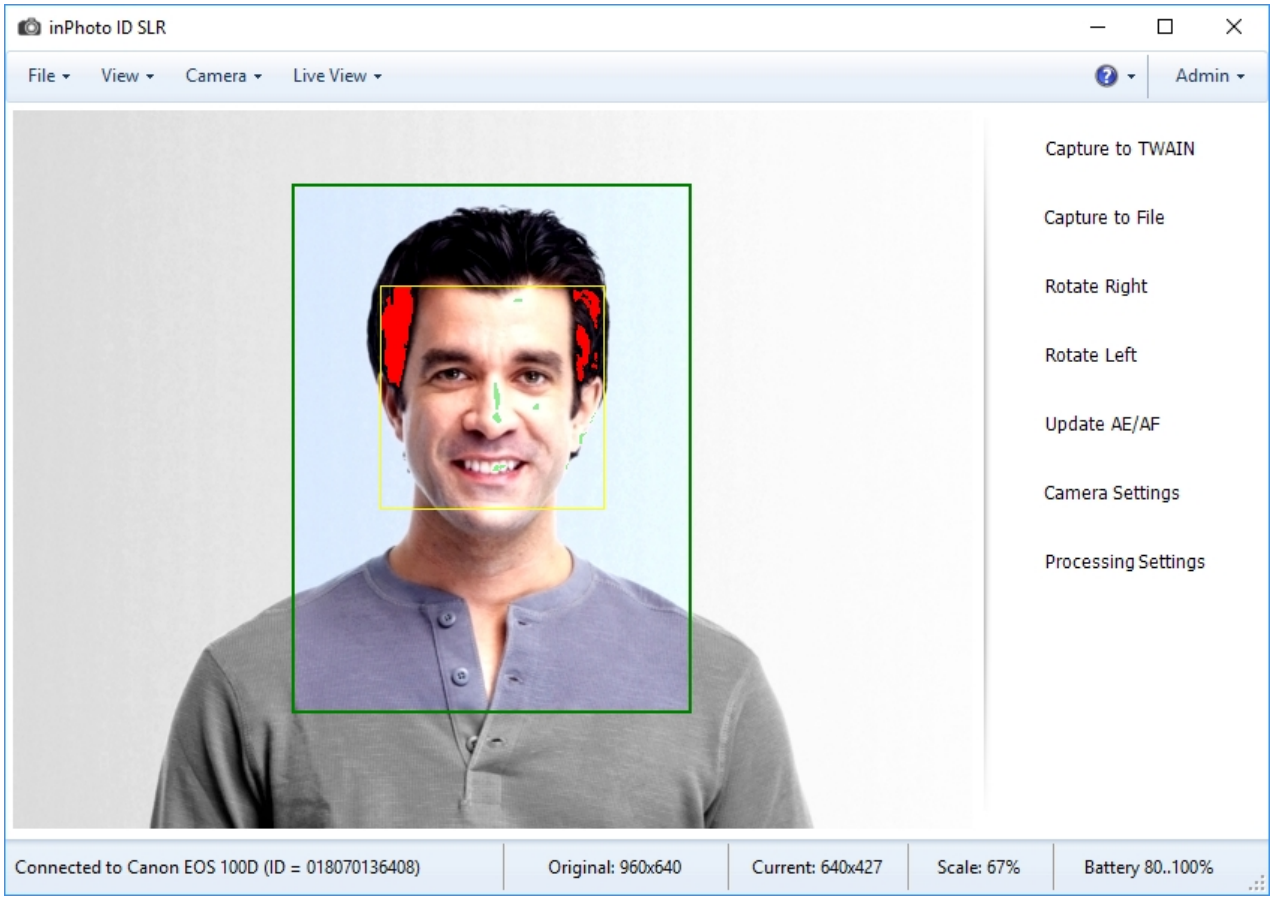
Exposure control switches on/off highlighting too light and too dark areas on the preview.

Exposure *is the amount of light hitting a photosensitive material of the camera during a certain period of time.*

Correct exposure *is such amount of light that makes the largest number of color as bright as possible in a photo.*



Too light image areas are highlighted in green, too dark areas are highlighted in red.



The exposure control helps photographer to choose lighting for shooting to avoid darkened or lightened image.

Chapter 5. Processing Settings

Processing is the key function of the application. **Processing** brings to the image a specific view formed by the user using processing settings. This chapter will describe all processing functions, settings and options in **inPhoto ID SLR**.

The processing procedure can be divided into several stages.

- Automatic face detection and framing.
- Setting up image composition (aspect proportions, face positioning, rounded corners etc.).
- Parameters of photo size, quality and size after processing.
- Image correction (setting up contrast, brightness, gamma etc.).
- Setting up carrying out of the processing procedure if no face has been detected on the photo.
- Saving processing results.

The contents of the chapter are as follows:

General Settings

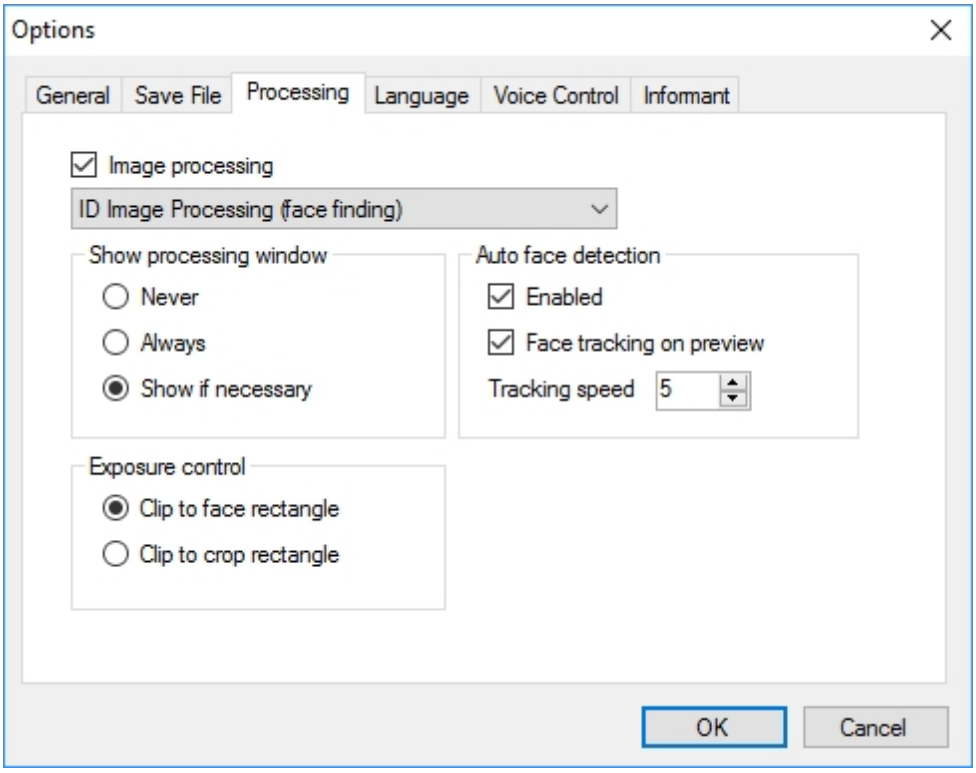
Saving image

ID Image Processing dialogue

Processing Completion

General Settings

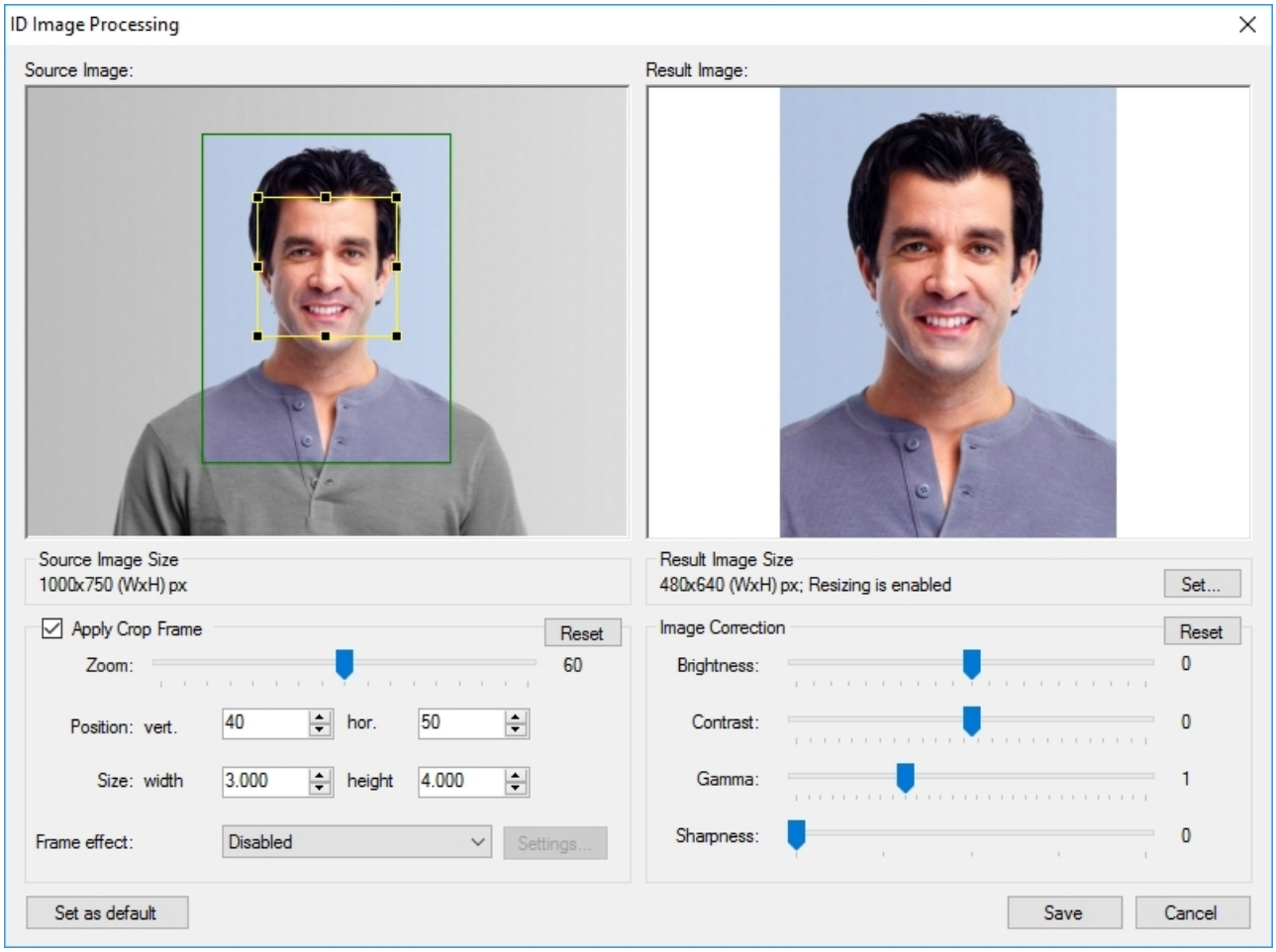
The settings regulating carrying out of the processing procedure can be found in the **Options** dialogue > **Processing** tab.



Let's take a closer look at it.

Image processing allows enabling or fully disabling image processing. When it is enabled, you can select a processing parameter in the drop down below. For **inPhoto ID SLR**, this parameter is **face finding**. If the setting is disabled, a captured image will be saved in the specified folder or passed via TWAIN as well as when the setting is active. In this case, the captured image will not be processed using auto face detection and the processing settings. Processing parameters are located in the **ID Image Processing** dialogue which will be described in details below in the **ID Image Processing dialogue** section.

Settings from the **Show processing window** unit determine when the image processing dialogue should be shown to the user during processing.



Show if necessary means that the dialogue will be called up only if the user's interference is required. If the face has been found and the outer box of the frame fits completely in the image, the processing was successful and no dialogue will be shown to the user. If the face is not found or is found, but is too close to the image border while the outer box is not fitting in the image then the application will call up the dialogue, so that the user is able to make corrections manually and choose a further action. This may include saving the image with default settings or with settings modified by the user, canceling processing or canceling processing with closing of the application.

Always means that the processing dialogue will always be shown. Also in those cases when processing is going well. This application behaviour allows the user to control the processing procedure.

Newer means that the processing dialogue will not be called up. This option is applied when complete withdrawal of human involvement in the processing procedure is required.

So what happens with the images that failed to be processed?

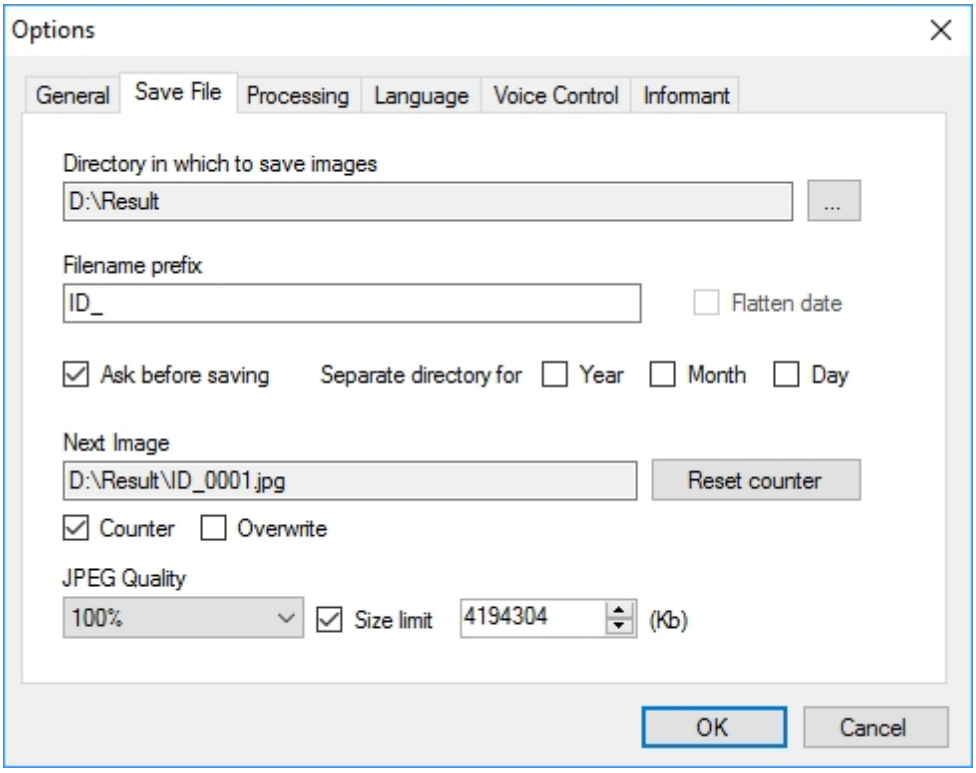
If no face detected on the photo, the settings in the **ID Image Processing** dialogue in the **Apply Crop Frame** box will not apply to the image. The settings of size and correction in the **ID Image Processing** dialogue will apply both if a face on the image is detected and if not. The processing settings in the **ID Image Processing** dialogue are described in details further in this chapter, the **ID Image Processing dialogue** section.

When the face is found, but the outer box does not fit in the image, the image will be cropped after its predifined borders.

Settings contained in the **Auto face detection** unit have been described earlier in the chapter 4 **Preview** in the **Auto face detection** section.

Image Saving

It is necessary to set up the image saving parameters before starting the **Capture to File** command. The settings can be found in the **File** menu > **Options** > **Save file** tab.



Let's describe function of the each setting.

Directory in which to save images indicates the path to a folder in which the program will save processed image. Please note that the disk must have enough free space for the images, and the access to the folder should be allowed.

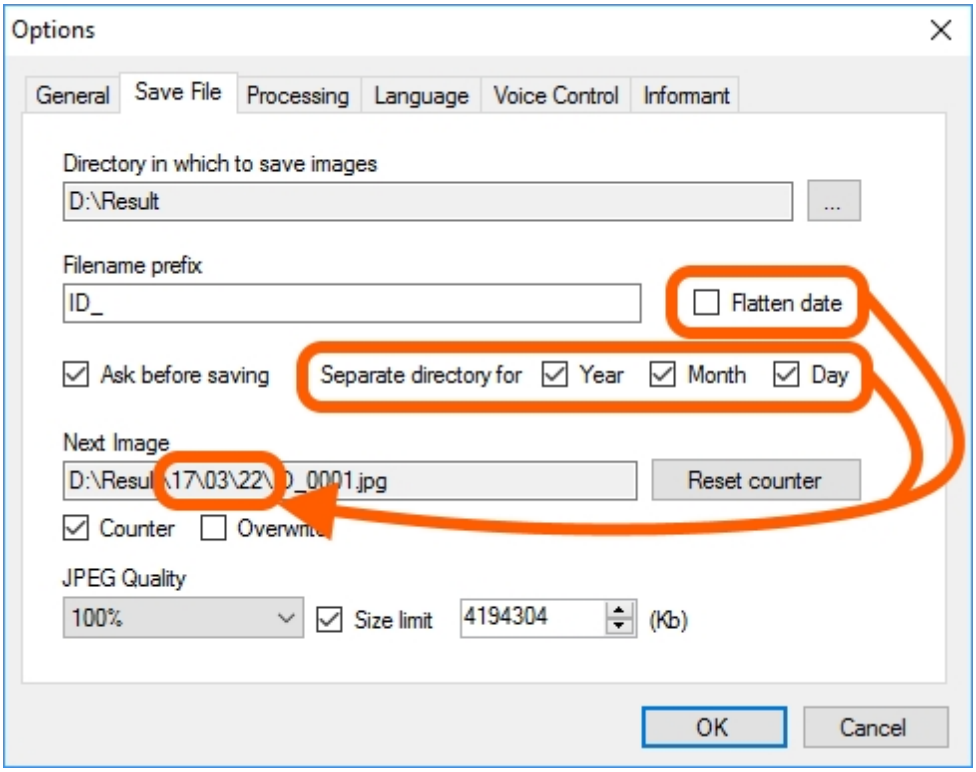
Filename prefix is a field for entering a set of characters which will be automatically added to the filename of the processed image.

Flatten date - on the name of saved file, it merges year, month and day into name of one subfolder. If the setting is switched off, the program will consider year, month and day values as subfolder names.

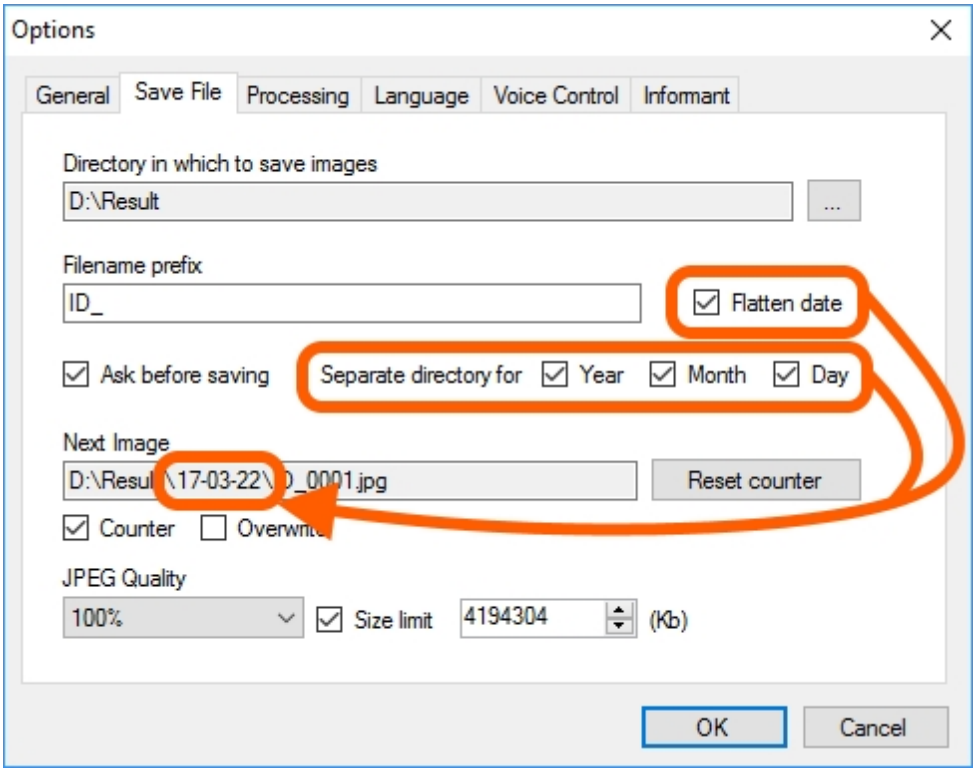
Ask before saving - if the setting is switched on, the program will further show the **Save as** dialogue before saving processed image.

Separate directory for includes the year, month and day settings described below. This settings add the subfolders to the filename. The subfolder name is generated from the year, month and day values current at the time of saving image.

The value of the **Flatten date** setting is also taken into account here. If **Flatten date** switched off, the subfolders for year, month and day will be created as three separate subfolders.



If **Flatten date** is switched on, one subfolder will be created instead of the several subfolders. On the name of this subfolder, the year, month and day values will be flatten.



Year adds the current year value to the name of the processed file.

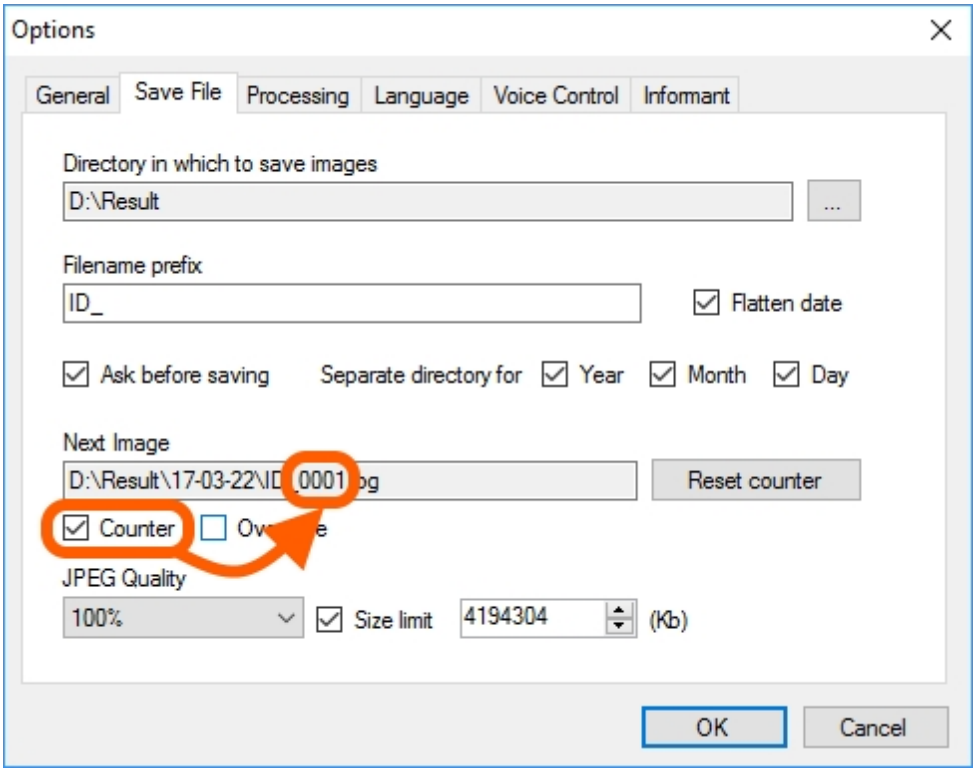
Month adds the current month value to the name of the processed file.

Day adds the current day value to the name of the processed file.

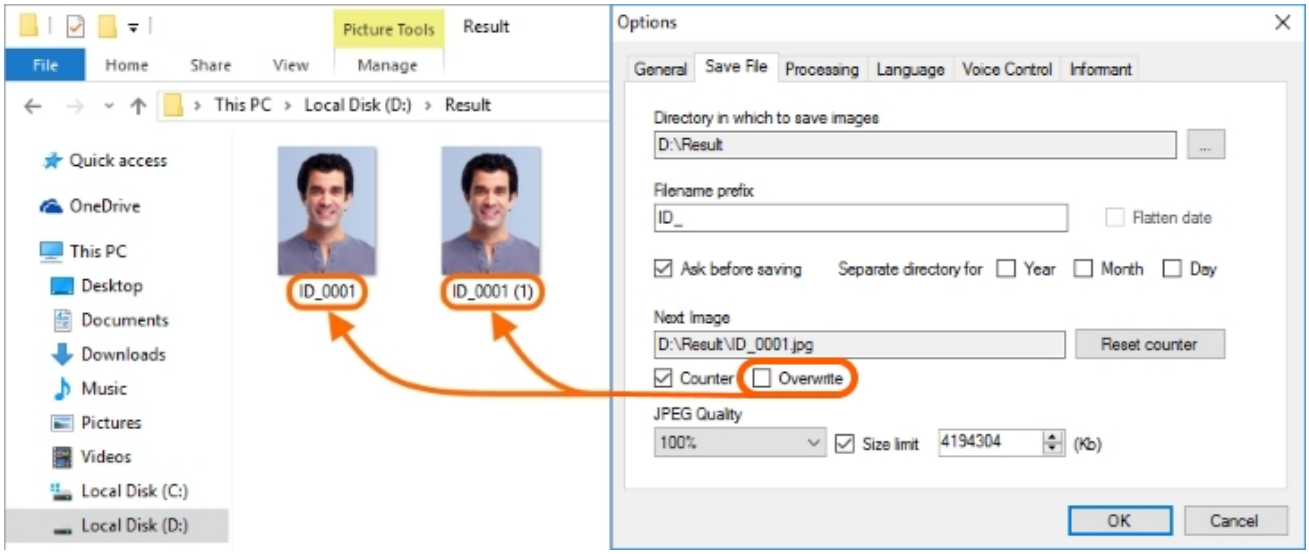
Next image contains a full name that will be assigned to the processed image when saving. This field is not available for edition, and you can only change it using the settings located on this tab.

Reset counter resets to zero the counter of the processed images. It will be applied if the **Counter** setting is activated.

Counter counts the saved images and adds the appropriate number to the file name.



Overwrite - the setting will be applied if a file with the same name already exists in the folder into which the processed image is to be saved. If **Overwrite** is switched off, the existing file with the same name will remain unchanged and the name of the file to be saved will be changed. If **Overwrite** is switched on, the file to be saved will be written instead of the file with the same name.



JPEG Quality allows defining the compression degree of the image being saved. It applies only to the files of JPEG format.

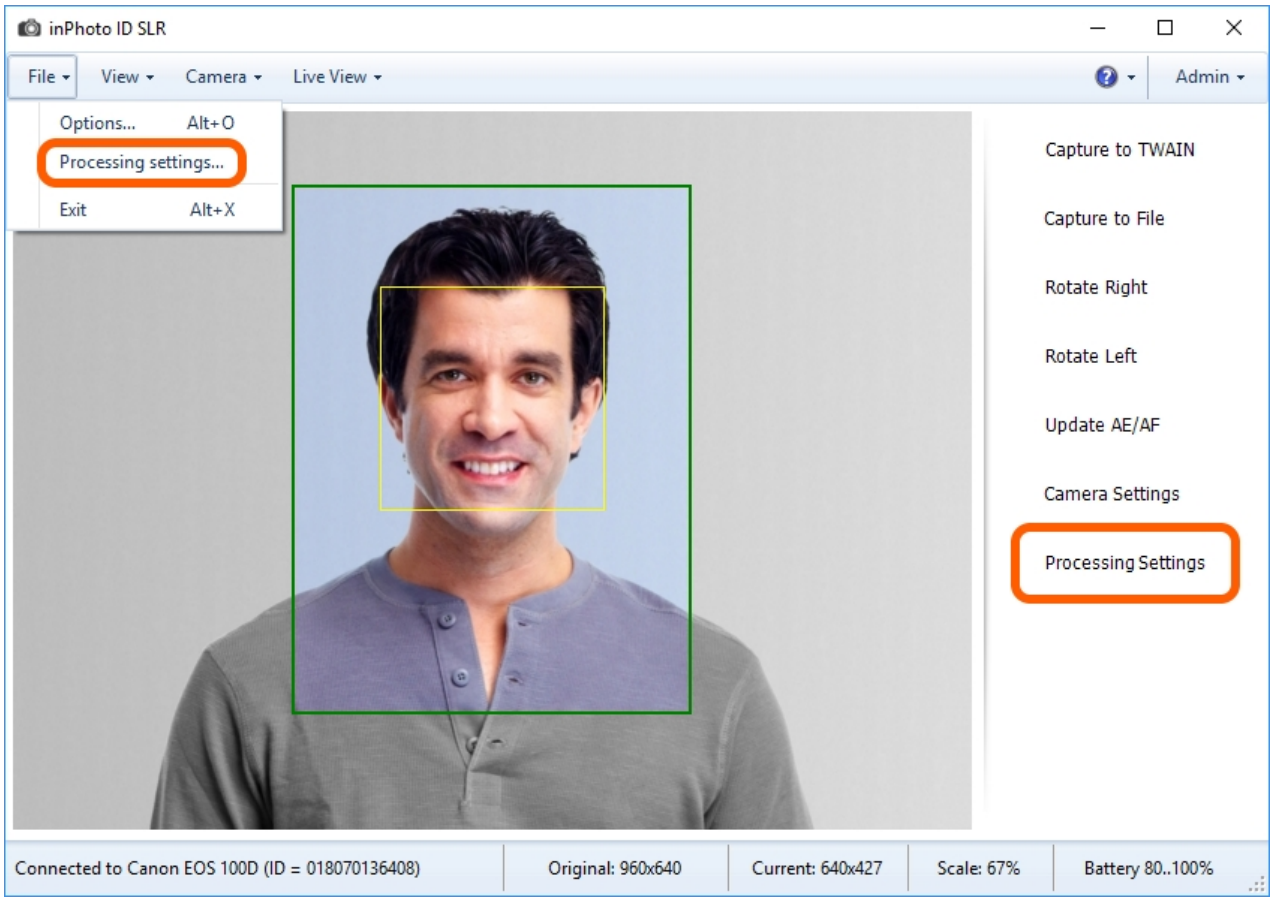
Size limit sets the upper margin for the image size. This is measured in kilobytes. If this parameter is selected, then **JPEG Quality** will be chosen automatically to fit the file size.

ID Image Processing dialogue

The image processing dialogue contains face detection, framing, adjustments settings and part of the resulting image size settings.

The dialogue may be called up in two ways.

The first way: **File** menu > **Processing settings** or from the side menu by the **Processing settings** button.

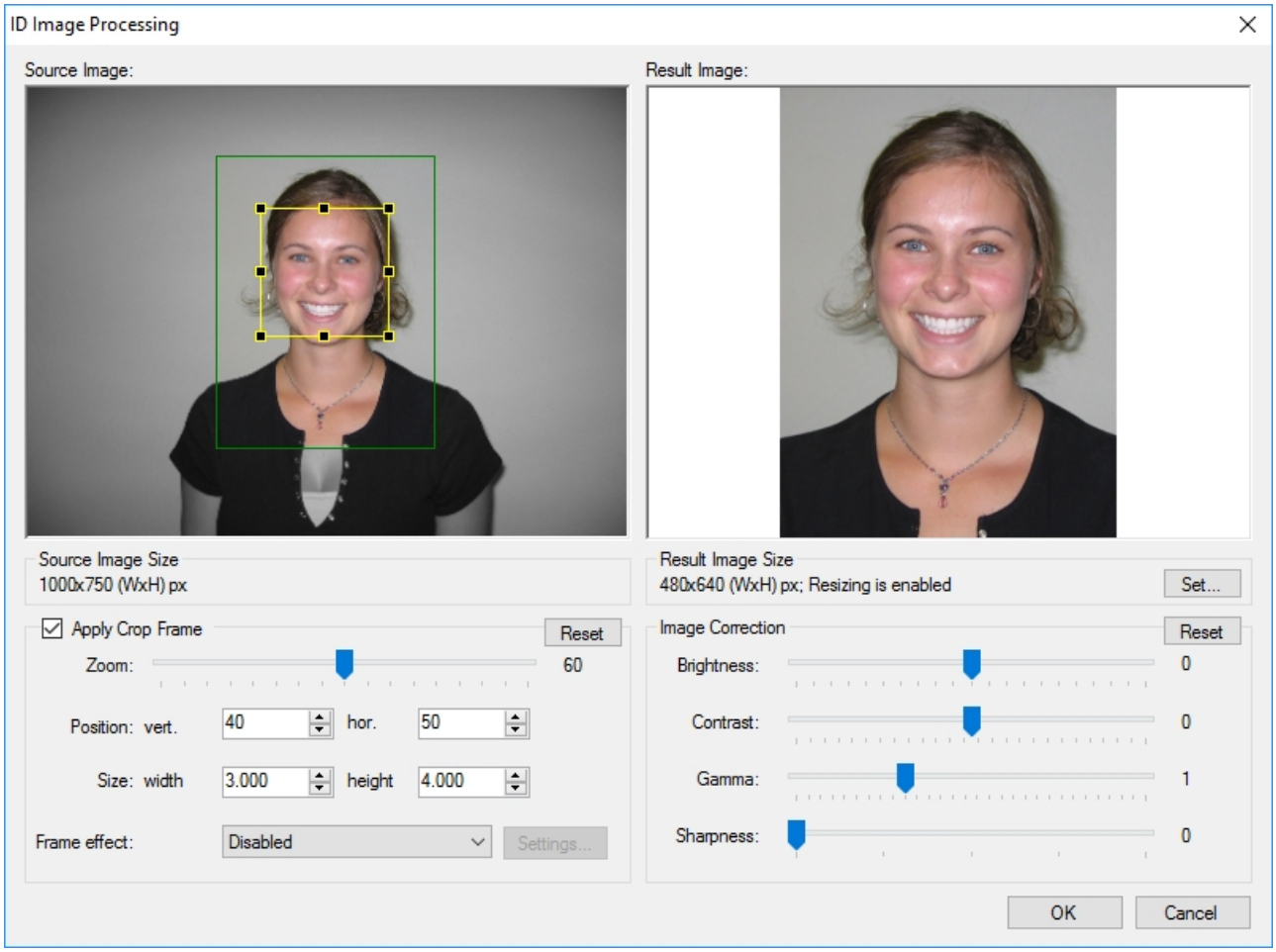


The second way: the dialogue is called up during the progressing.

*The **Show processing window** setting determines in what cases the dialogue will be called up automatically during processing.*

In the first case, the dialogue will open for the standard test image. If you change the settings in the dialogue for the test image, the new settings will be accepted as the default ones. If you change the settings in the dialogue called up during processing, the new settings will be applied only to the current image.

Let's call up and view the dialogue of processing for the test image.

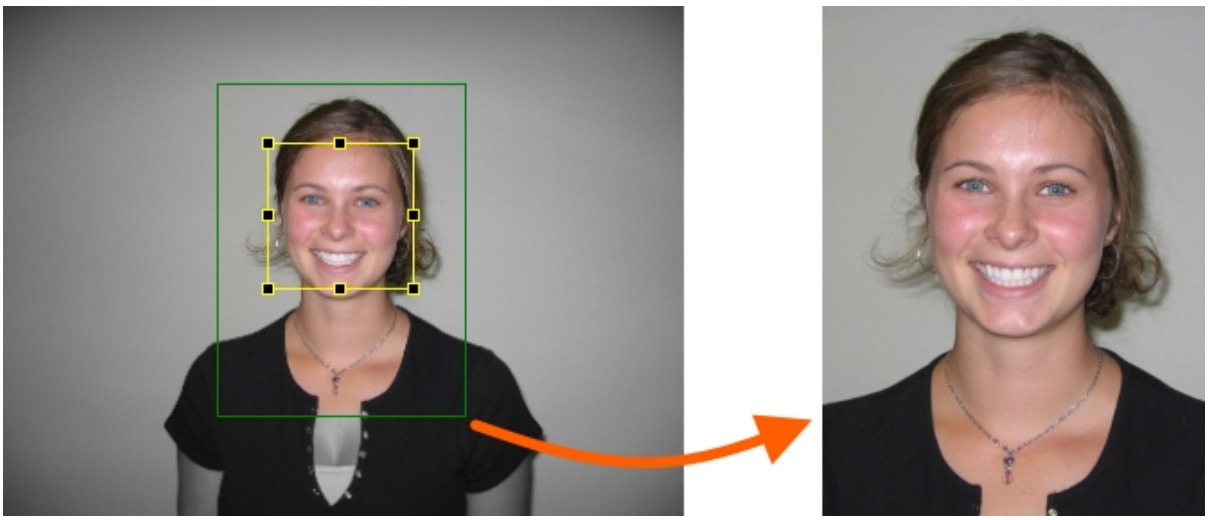


In the dialogue, you can see an original image view in the **Source Image** field, the processing result preview in the **Result Image** field and image processing settings are placed below.

In the **Source Image** field, two boxes are applied on the photo: the internal yellow box and the external one which may be green or red. The internal box outlines the face area. No bounding box will be present if the face is not detected or the face search is disabled by the **Image Processing** setting.

The internal box can be expanded, reduced or moved to the left, to the right, up or down. This can be done with the mouse in the **Source Image** field. All actions with the internal box are automatically applied to the outer one.

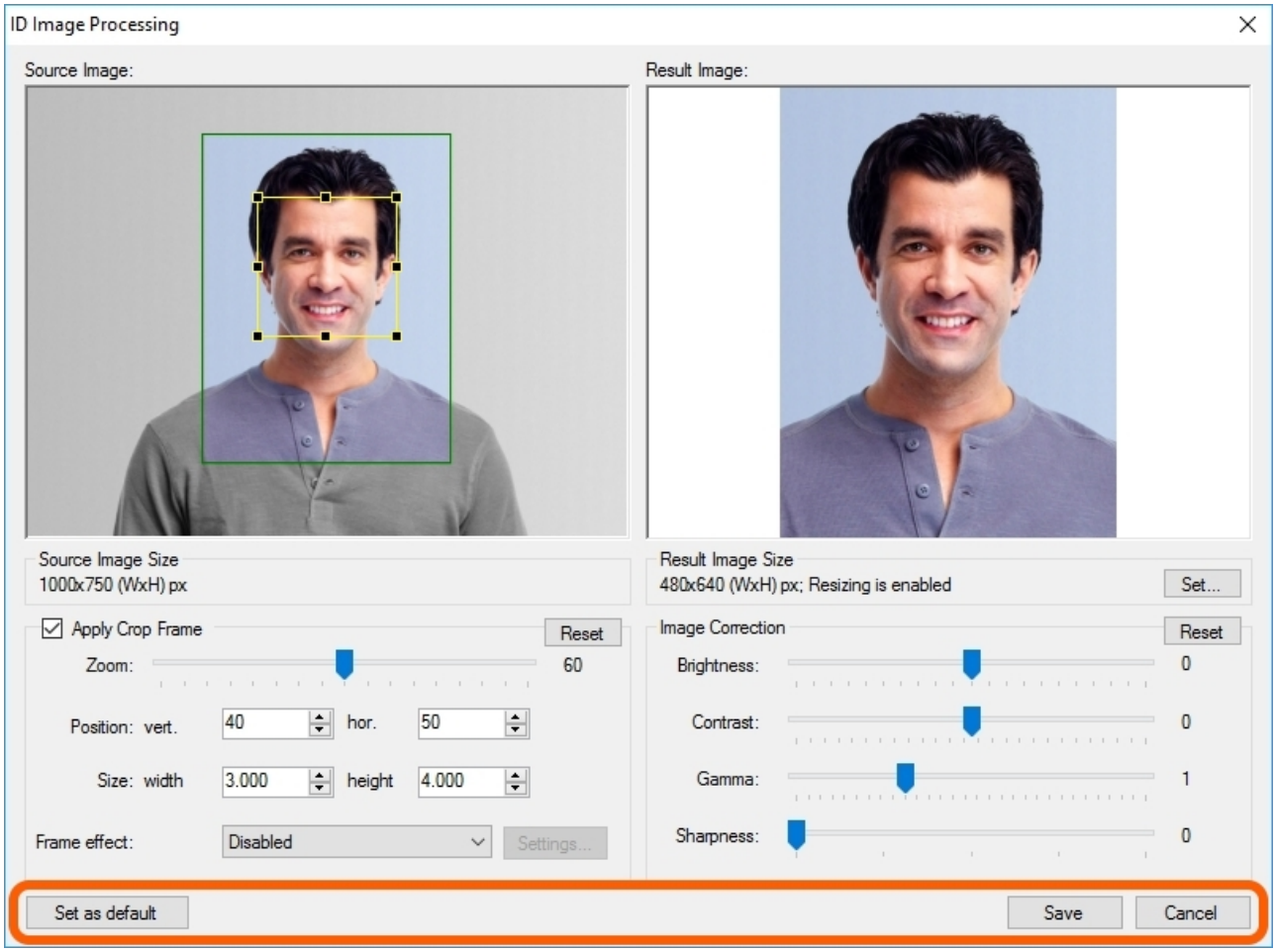
The outer box shows the image margin after which cropping of the image will be performed.



If the distance between the face area and image margins is smaller than the distance set in the settings the outer box will be red. For example, if the face is too close to the edge of the photo.

Then, we'll view the dialogue for the image being processed. Please note that the program will call up this dialogue during processing, if such behavior is set in the **Show processing window** setting.

In the dialogue for the image under processing, unlike the test image dialogue, added the **Save** and **Save as default** buttons. Please refer to the **Actions** section for more details.

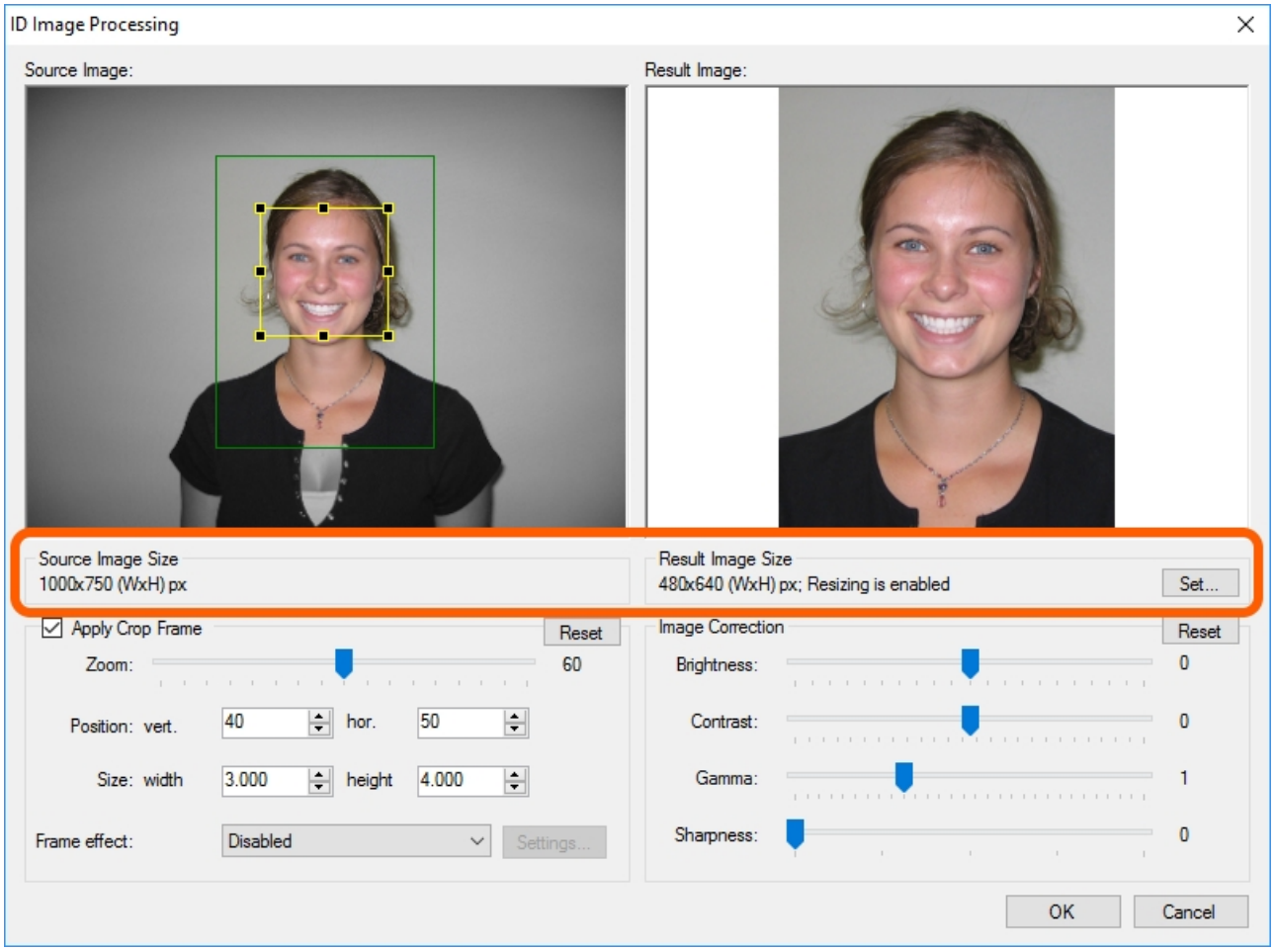


The contents of the chapter are as follows:

Processed Image Size
Frame Setting
Image Correction
Actions

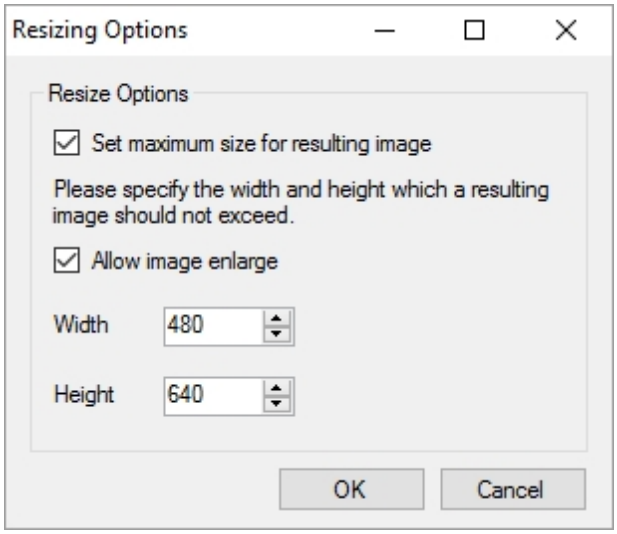
Processed Image Size

The information on image dimensions is contained in the **Source Image Size** and **Result Image Size** sections.



The **Source Image Size** section shows the size of the source image in pixels.

The **Result Image Size** section shows the size of the resulting image with the current settings (also in pixels). The size value will change depending on the change in settings. **Resizing is enabled** means that the upper margin for the image size is set. **Resizing is disabled** means that there are no restrictions on the maximum size of the resulting image. Click the **Set** button to set or remove limits and to set the compression parameters. After that, the **Resizing Options** dialogue will be called up.



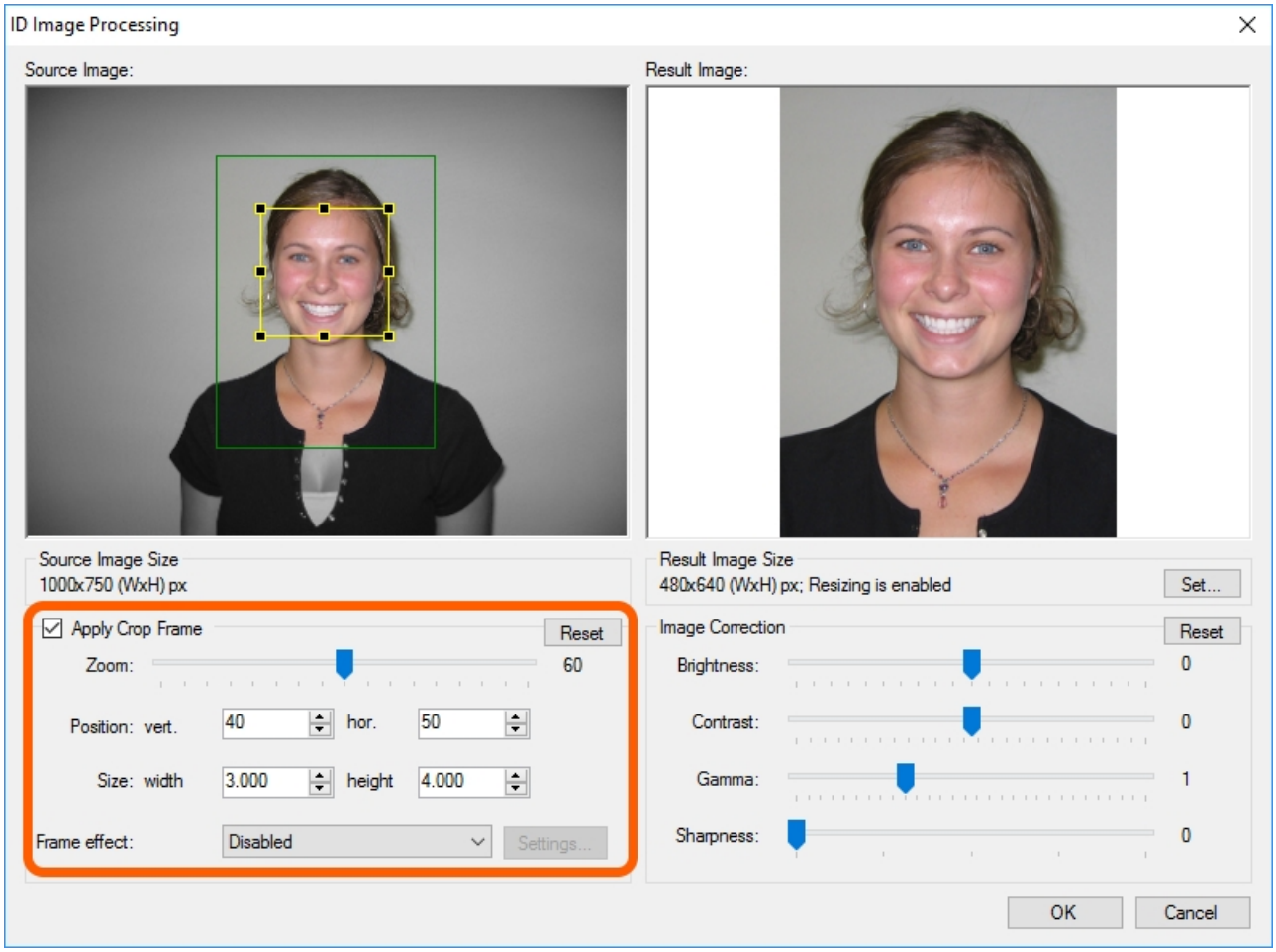
To set or remove the upper margin for the image size, use the **Set maximum size for resulting image** setting.

The second setting in this section, that is **Allow image enlarge,** allows enlarging the image to the specified dimensions if the source image is smaller. In other words, if this setting is disabled, only the images with bigger original dimensions are scaled to the specified dimensions. If the image dimensions are originally smaller than the specified ones, the image height and width will remain unchanged. When the setting is enabled, all the images are scaled to the specified dimensions, regardless of whether they have initially been bigger or smaller. Please keep in mind that the quality of the enlarged images may worsen.

The dimensions of the resulting images are set in the **Width** and **Height** fields below in the dialogue.

Frame Setting

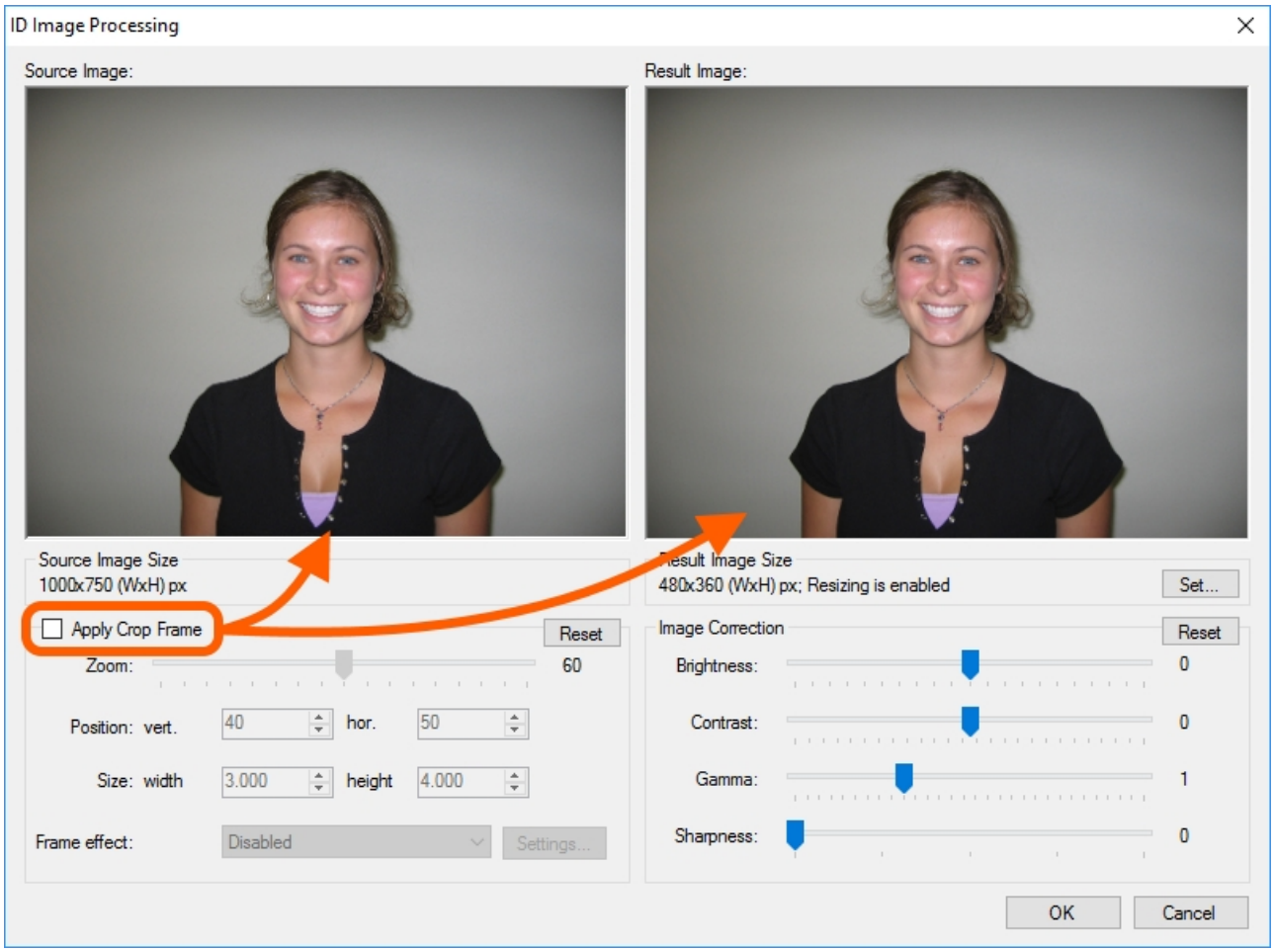
The composition settings and size settings are contained in the **Apply Crop Frame** box.



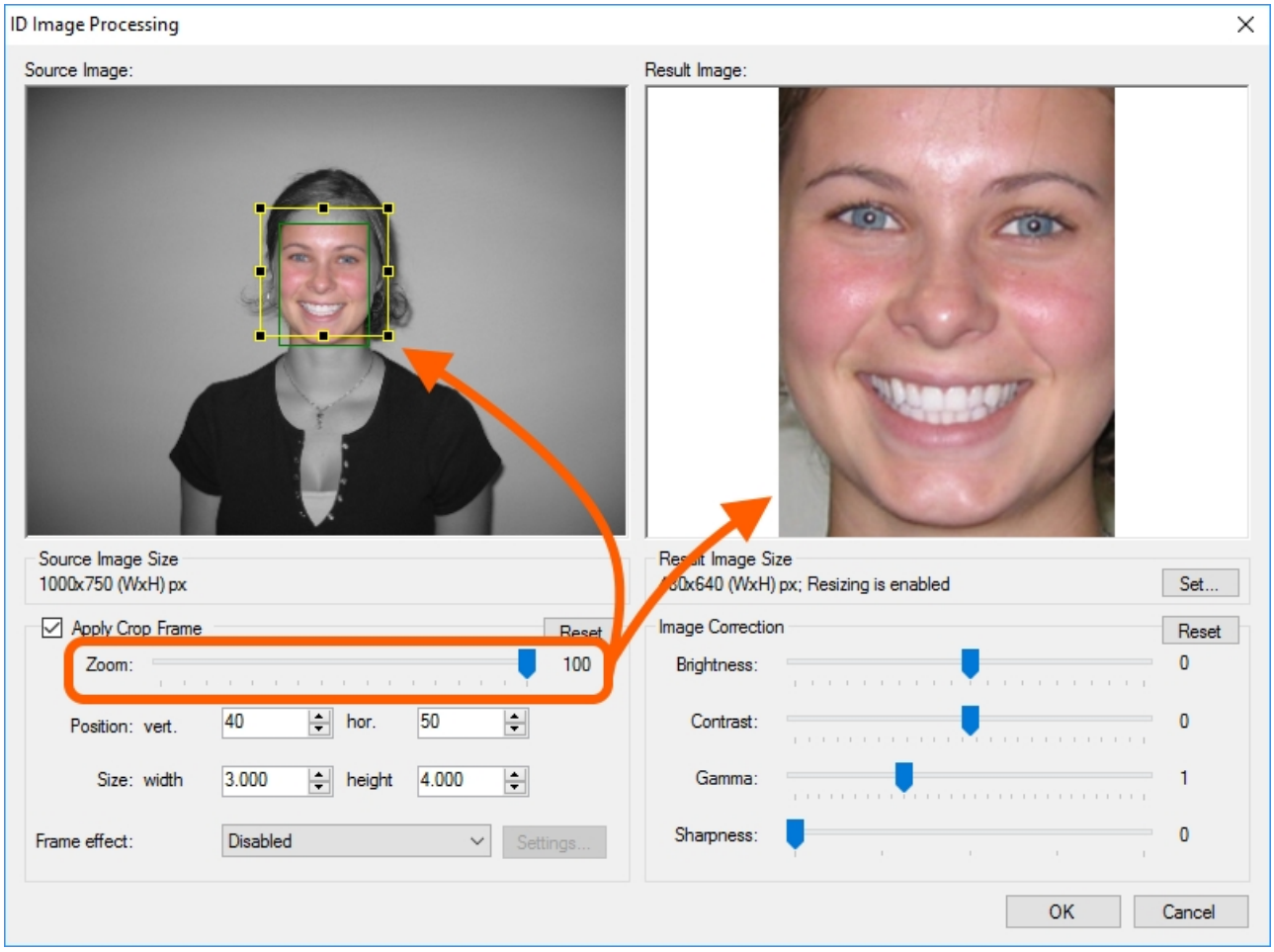
Apply Crop Frame enables and disables face search and further image framing.

When this setting is being disabled, the frames from the **Source Image** field will disappear, and the image will be displayed in its original form in the **Result Image** field.

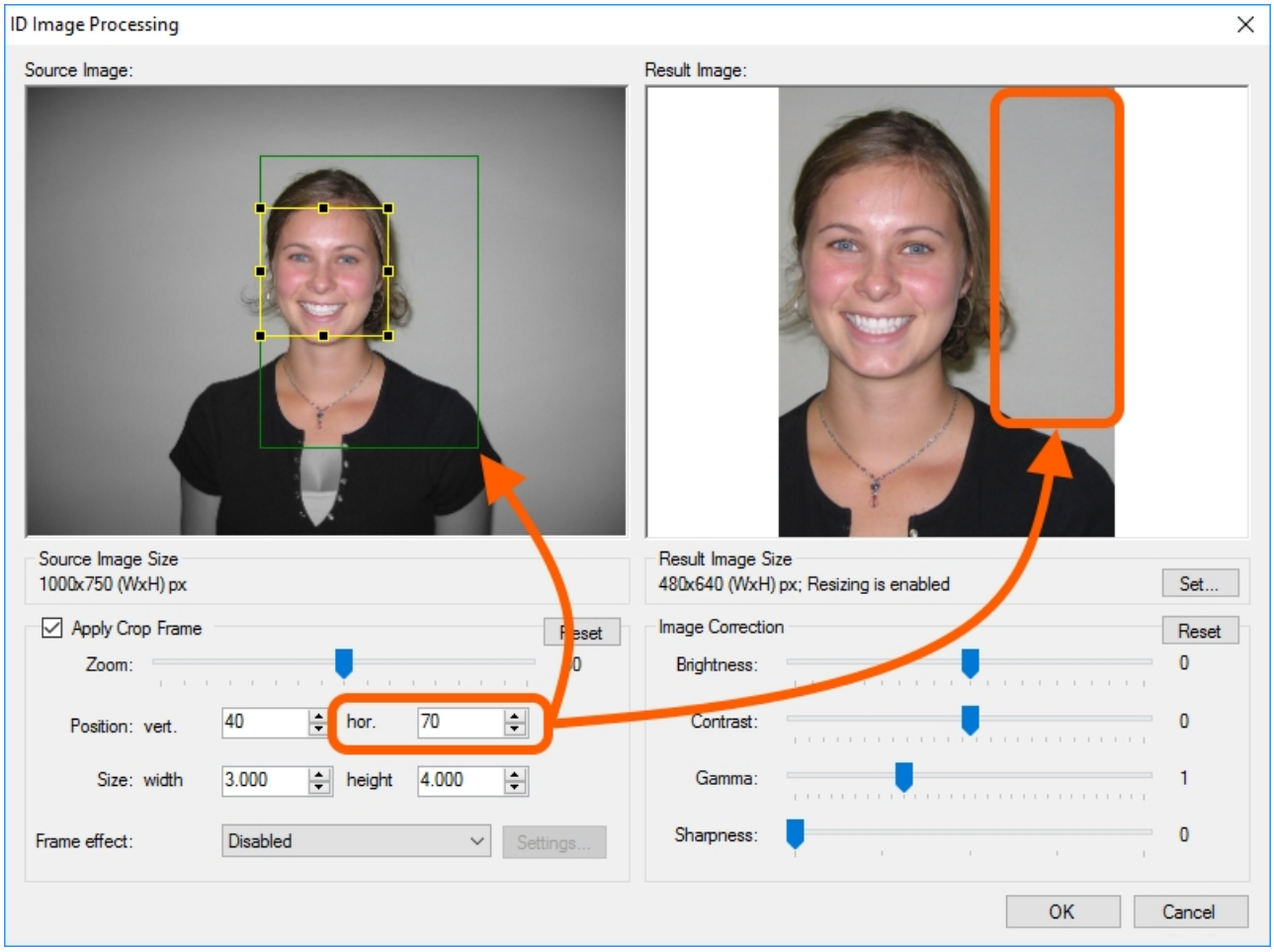
The processing procedure started with the **Apply Crop Frame** setting disabled will apply to the image all the settings except the ones in the **Apply Crop Frame** box. When the **Apply Crop Frame** setting is disabled, all the settings in the box become disabled.



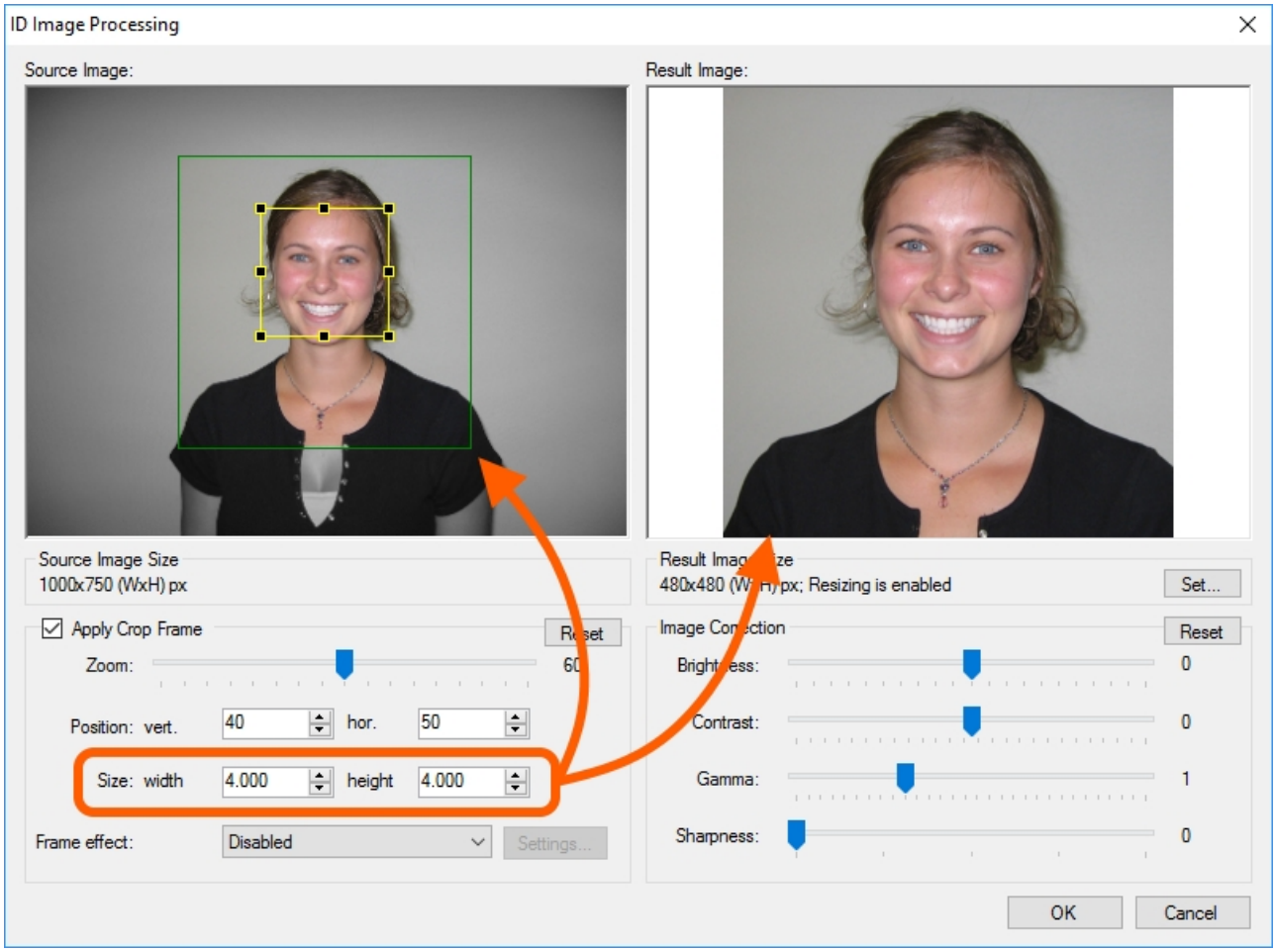
Zoom is a ratio of face area to the area of the future frame. The value of 40 is selected in the default settings which means that the face area accounts for 40% of the area of the whole frame. Provided the value is increased to 100, the face area will occupy the whole frame. Let's show it with an example.



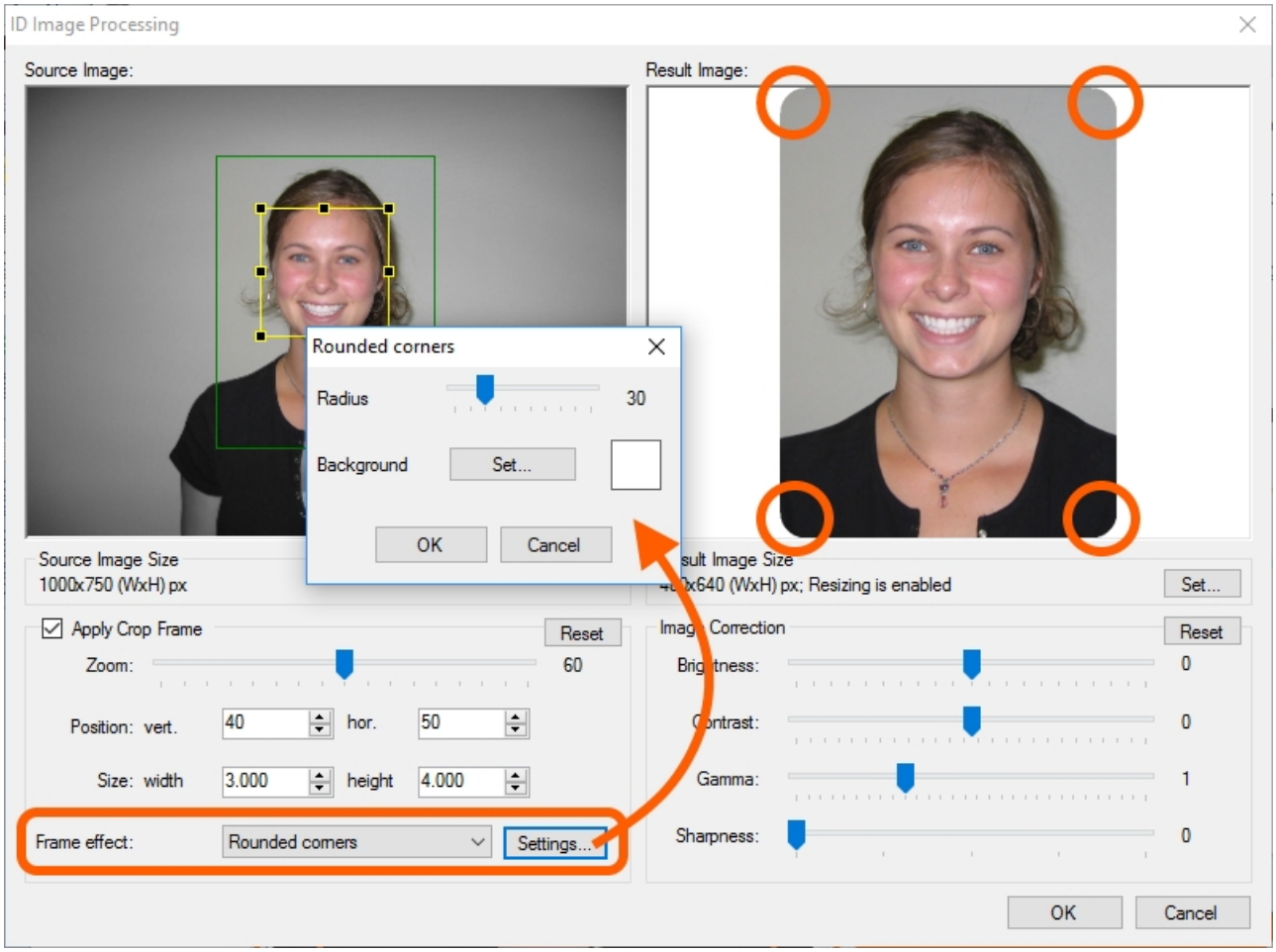
Position: moves the frame cropping box relative to the detected face and so changes place of the person in the image. For instance, such need may arise if it is necessary to move the image of a person and add a company logo on the photo. In such a case, you simply need to move the frame cropping in the required direction. Offset values are given in per cents.



Size: this setting allows specifying the ratio of the frame sides. E. g., with width to height ratio as 4: 4, the frame will have a form of a square.



Frame effect is the list of effects that can be applied to the image frame. There is only one **Rounded corners** effect in the list at present. Click the **Settings** button placed to the right of the list to change the **Rounded corners** settings. In the shown dialogue window, you may set the rounding radius and background colour for the corners.



Reset cancels changes of all the settings in the box and return them to default state.

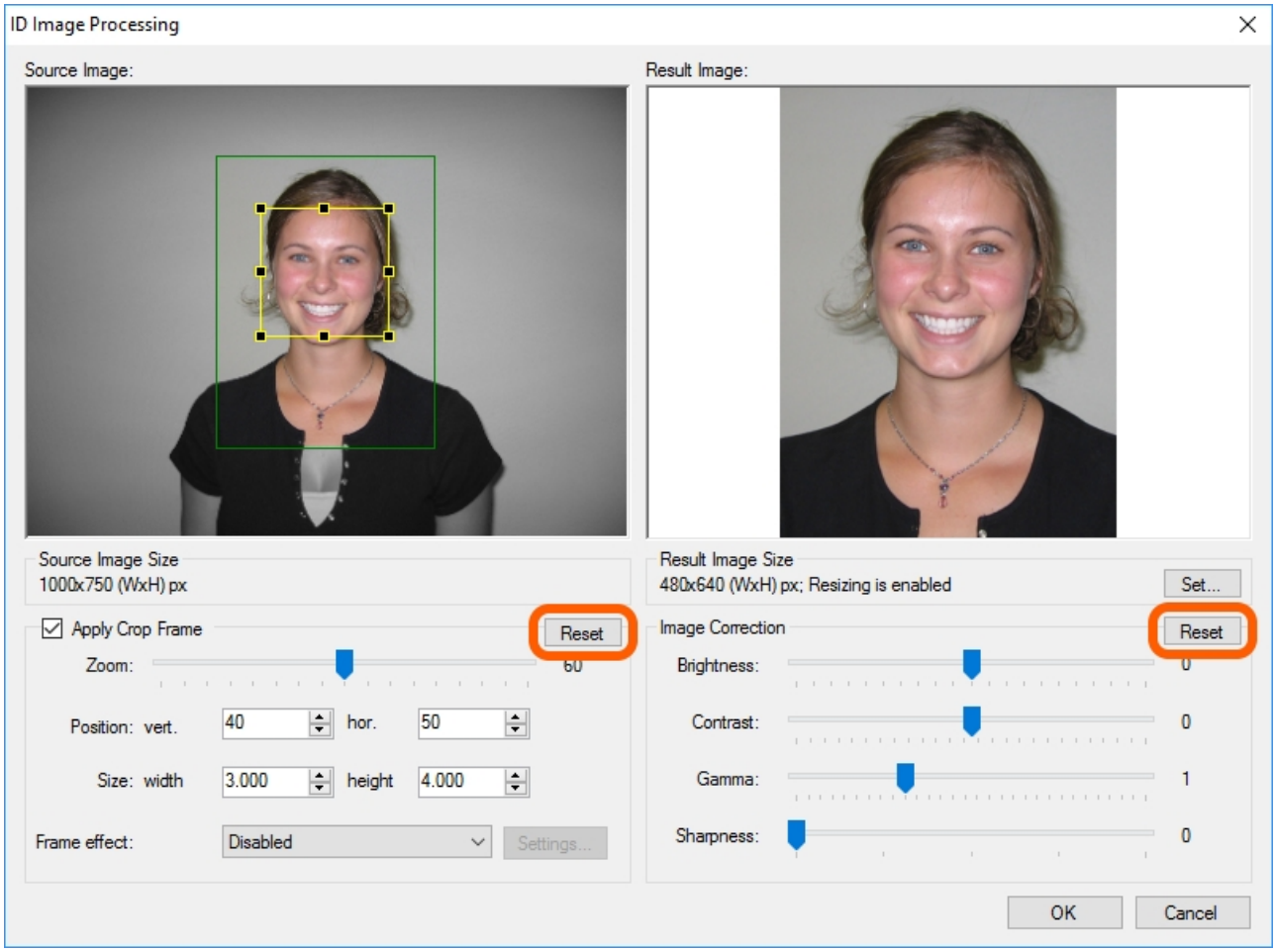
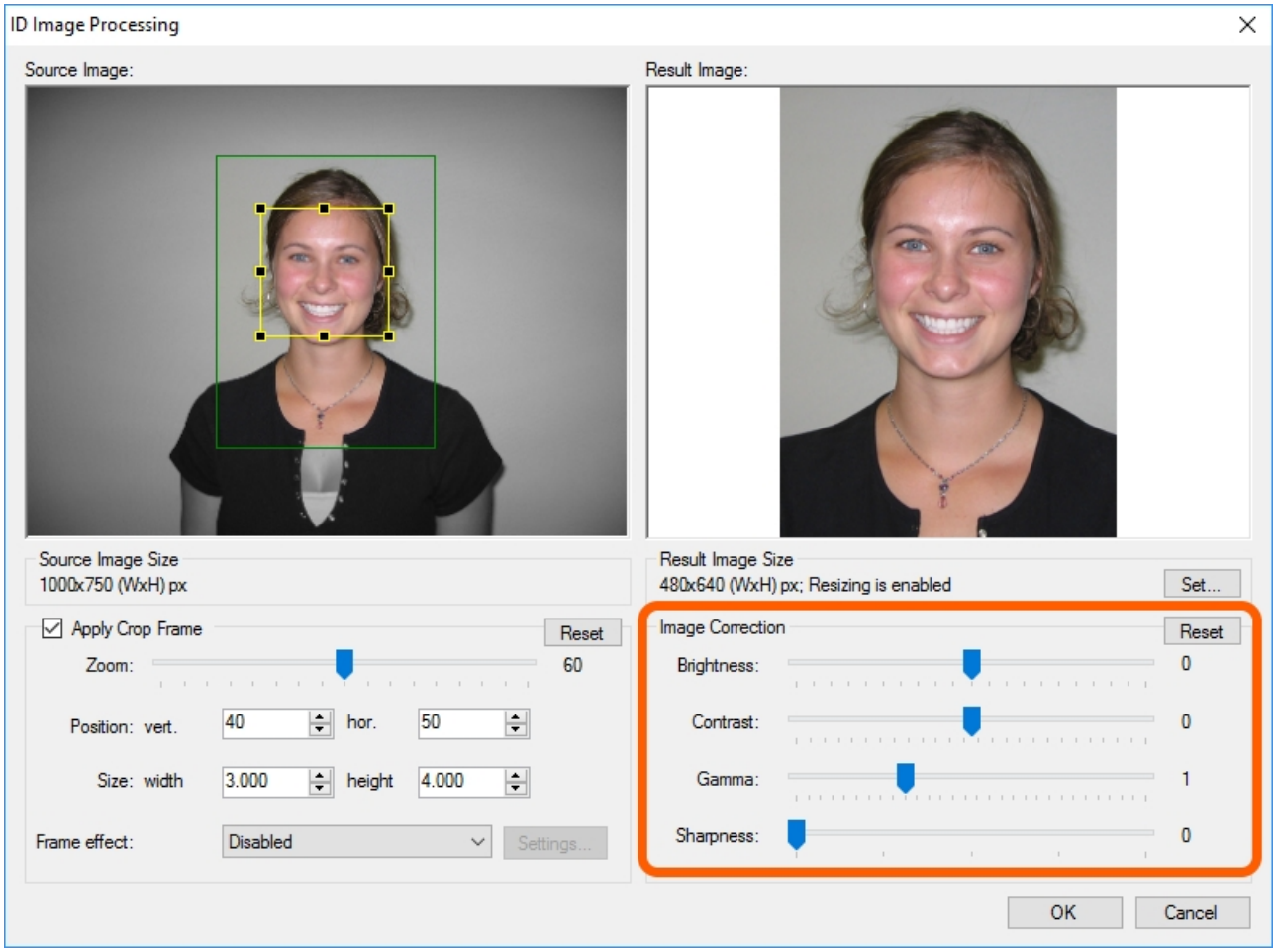


Image Correction

All settings for image correction are placed within the **Image Correction** box.



Here you can set such parameters of photo as brightness, contrast, gamma, sharpness, and greyscale. All changes of the settings will be displayed in the preview.

Brightness *— this parameter indicates how much do image pixel colours differ from the black colour. E. g. the brightness of the photo taken in sunny weather will be significant and visa versa that of the photo taken in the evening or at night will be low. Brightness is set in the range from - 100 to 100.*

Contrast *is one of the main image parameters, it regulates pixel brightness. When increasing the contrast, the light areas (pixels) of the image become lighter, while the dark ones become darker. And visa versa, when reducing contrast, dark pixels become lighter, while the light ones become darker and thereby the number of pixels move to midtones. Contrast is set in the range from - 100 to 100.*

Gamma *— this image parameter allows changing colour intensity of dark pixels to a greater extent than that of light ones. In other words, it is possible to increase contrast, distinctness of the dark areas of the image, while not making light details of the photo too contrast or bright.*

Sharpness *is also one of the main image characteristics; it indicates the quality of reproduction of large fragments on the photo. Increasing sharpness is one of the common ways of improving image quality. Actually, increasing of the sharpness decreases the width of the borders between image areas with different brightness. The narrower the border, the sharper looks the photography. This is reached by lightening lighter pixels on one side of the border and by darkening the darker ones on the other side.*

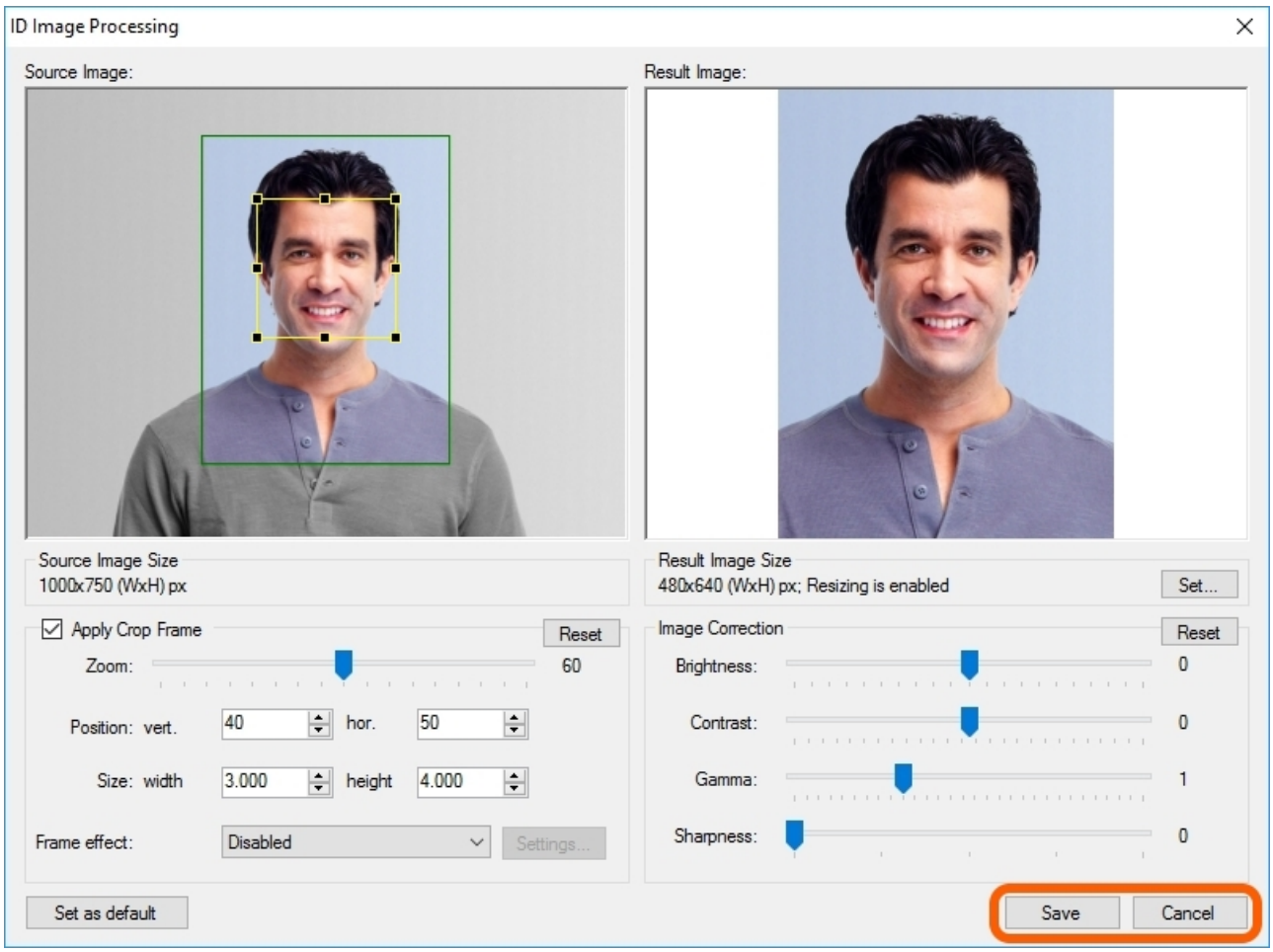
Grayscale — *this option allows making black-and-white photo from the colour one. In the* ***Grayscale*** *mode, all the colours are cancelled for the image and only information on pixel brightness is saved. Furthermore, all the colours on the photo are transferred to the grayscale.*

The **Reset** button makes it possible to cancel changes of all the settings and return them to default state.

Actions

If the processing procedure runs without calling up **ID Image Processing** dialogue, the processing will be completed automatically. In such a case, the user does not need to take any actions.

If during processing, the dialogue will be called up, the user needs to choose complete processing and press the **Save** button or cancel processing and press the **Cancel** button.



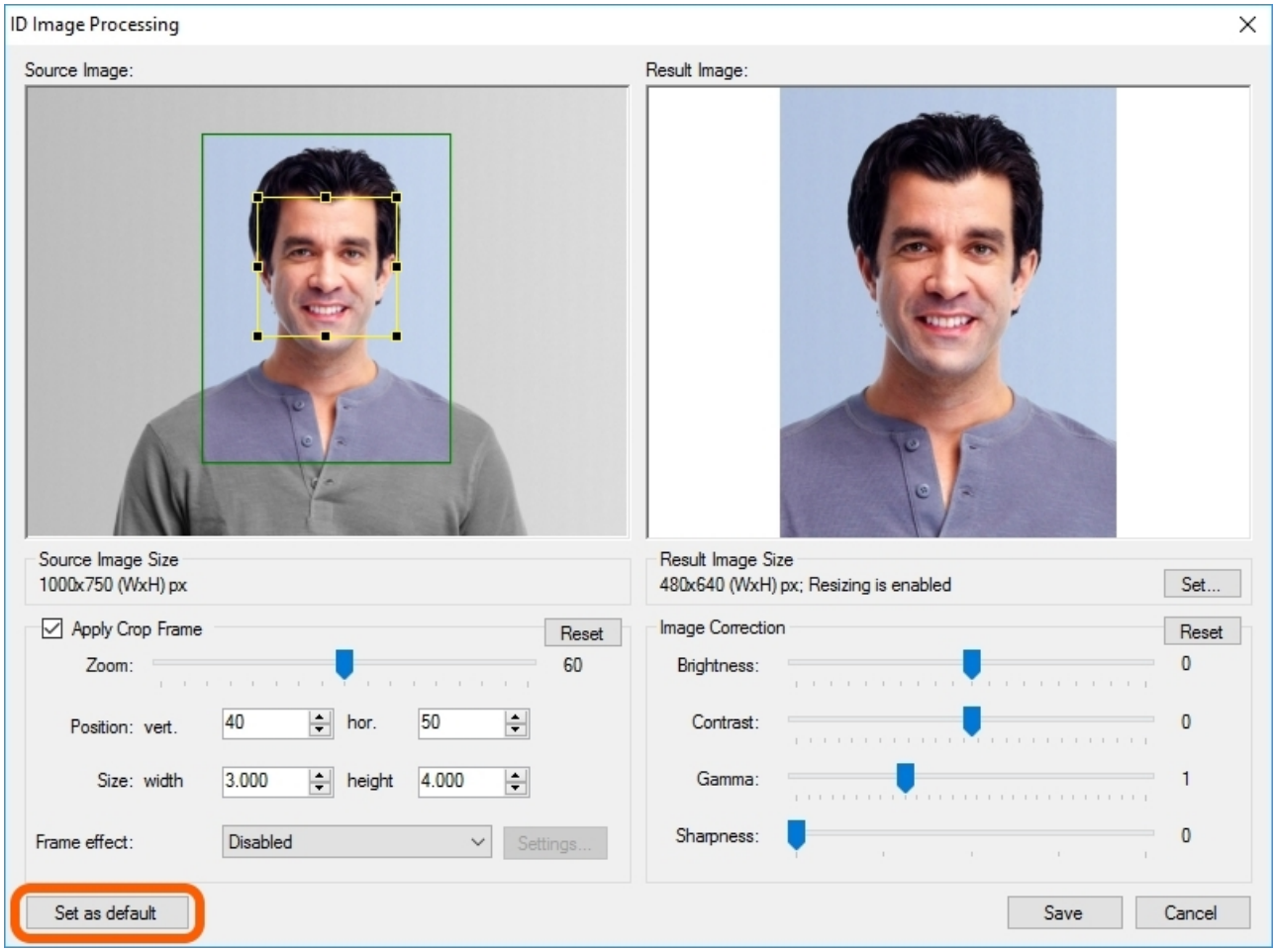
Save saves the photo with the settings set in the dialogue.

Cancel interrupts processing, closes the **ID Image Processing** dialogue and takes the user back to the application main window.

The **Esc** key on the keyboard performs as the **Cancel** command.

Separately from the actions buttons, there is the **Set as default** button in the dialogue. **Set as default** saves settings in the dialogue as settings by default. If you would like further images to be processed with the settings you have applied in this dialogue, press **Set as default** before pressing **Save** or **Cancel**.

Pressing **Set as default** only affects saving settings and does not affect image processing process. After pressing the **Set as default** button, the processing dialogue will remain open and the application will wait from the user for one of the actions of the **Save** and **Cancel** buttons.



Processing Completion

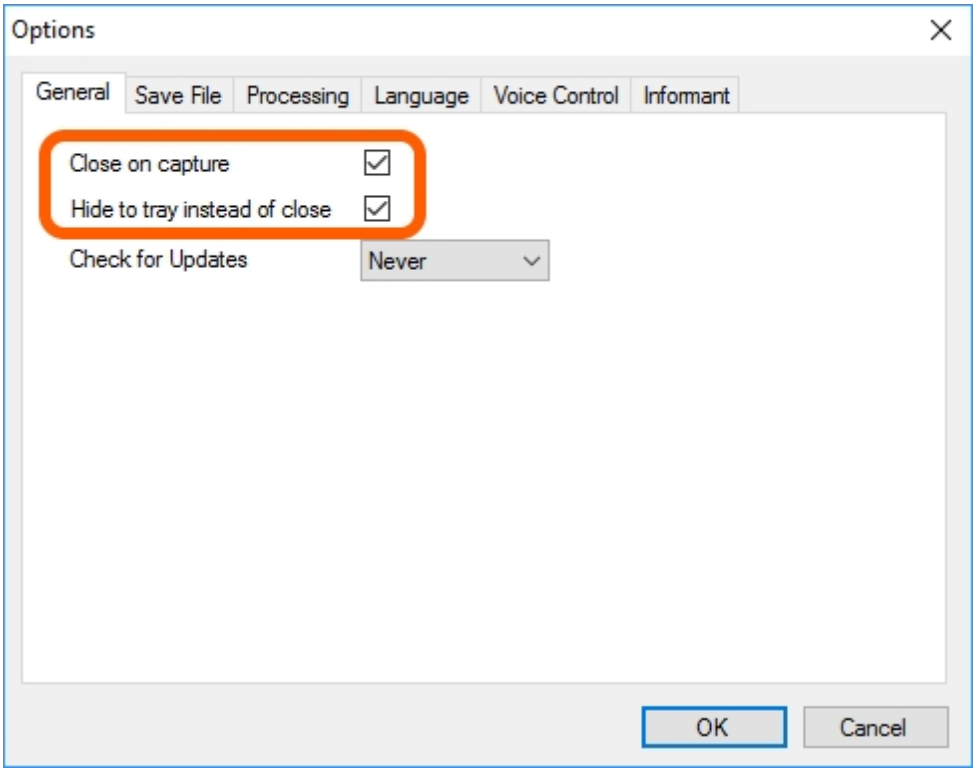
After processing is complete, the application can be automatically closed or minimized to tray. Such behaviour is regulated with the **Close on capture** and **Hide to tray instead of close** settings.

The active **Close on capture** setting closes **inPhoto ID SLR** after processing.

Whether the application to be closed completely or to be minimized to tray depends on the **Hide to tray instead of close** setting.

The active **Hide to tray instead of close** setting changes closing **inPhoto ID SLR** to minimization to tray.

The settings are located on the **File** main menu > **Options** > **Explorer** tab.



Chapter 6. Processing

In the previous chapters, we have described all functions and settings for image processing. Now, it is time to run the process and take a look at how it progresses.

There are two types of image processing in the application: **Capture to TWAIN** and **Capture to File**. In both cases, the capturing process is identical and it is only saving the processed image that differs. **Capture to TWAIN** sends the processed image to the application or to a device through the TWAIN driver. The results transfer through the TWAIN driver will be described below with the **XnView** image viewer taken as an example. **Capture to File** saves an image to the specified folder on the drive.

Let's take a closer look at each capturing method.

TWAIN

Capture to File

TWAIN

Contents of the section:

About TWAIN

Capture to TWAIN

About TWAIN

TWAIN is the software protocol that makes it possible to directly transfer images from image-capturing devices, like scanners and digital cameras, to applications.

Without **TWAIN,** you would first need to save the image to a disc and only after that the user application will be able to open it.

Thanks to **TWAIN,** application software and image-capturing devices can understand each other and interact.

Image-capturing devices work via **TWAIN** data source usually called **TWAIN** driver. Not only a real device, like scanner and digital camera, but a software as well can serve as a data source.

The following **IDPhotoCapture** products support the work as data sources:

- inPhoto ID Webcam
- inPhoto ID PS
- inPhoto ID SLR
- IDPhoto Processor
- inPhoto Capture PS
- inPhoto Capture SLR

TWAIN protocol comes with a data transfer standard and API interface. **TWAIN** drivers are applications for managing image-capturing devices written on the basis of the **TWAIN** interface. Normally, **TWAIN** drivers have a graphical interface and function as a data source control panel. **TWAIN** drivers also allow configuring image settings, such as colour balance, size, gamma range, etc. before the image is received by the application. Sets of settings in **TWAIN** drivers differ depending on a data source device.

Image transfer with **TWAIN** involves user application, supporting **TWAIN** protocol to which the image will be transferred and **TWAIN** driver which serves as an image source. Most applications for image handling are currently supporting **TWAIN**, however please refer to the application supplier or to the documents to find out about such a possibility.

Only application can initiate an image transfer, so it is from this that the **TWAIN** call have to start.

Various applications have their own commands for receiving files from a data source. Normally, these commands are found in the **File** menu and labelled as **Acquire** or **Import**. In some applications, you need to previously indicate a data source. For this purpose, a **TWAIN source** command is used which is also normally found in the **File** menu.

Diagram of image transfer via **TWAIN**.

1. A user selects and starts the **TWAIN** driver from the application to which the image is to be transferred.
2. After a **TWAIN** driver call, the application enters the standby mode and waits for response of the driver on the image readiness for being transferred. The application may be locked in standby mode. In reality, the behaviour of each application may differ and depends on the features included into it by developers.
3. While the application is waiting, the driver becomes a main controlling unit. The user manages a data acquisition device and captures an image.
4. After the image is captured, the driver transfers it to the waiting application.
5. After the transfer process is finished, the application may demand to close the driver. Further transfer via **TWAIN** is impossible with closed driver. For re-transferring the image, you need to start the procedure from the very beginning, calling out the driver from the application again.

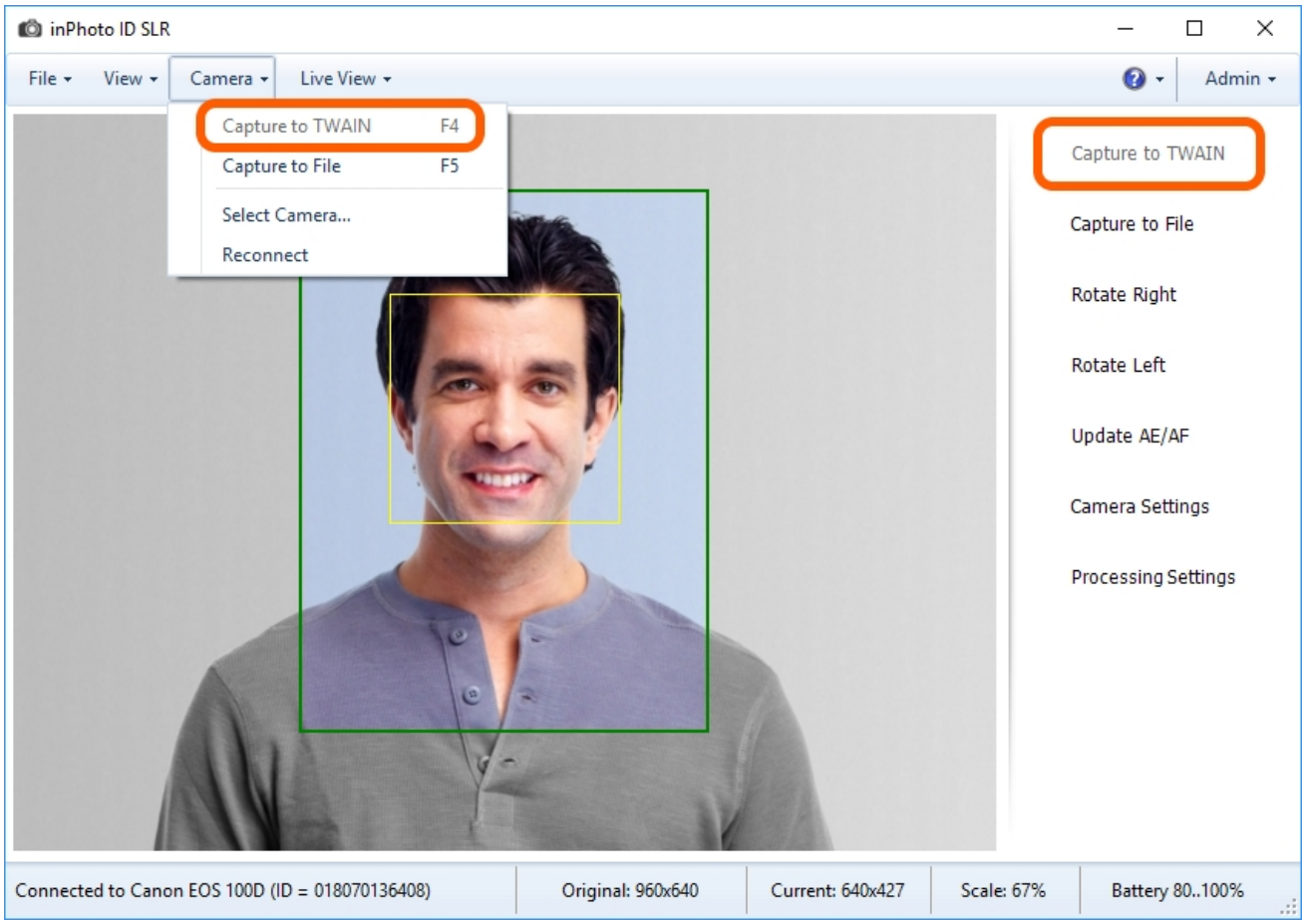
Capture to TWAIN

The **Capture to TWAIN** command executes snapshot, its processing and transfers them to external application which connected to **inPhoto ID SLR** via **TWAIN** protocol. As an application in which processed photo will be transferred we use image viewer **XnView**.

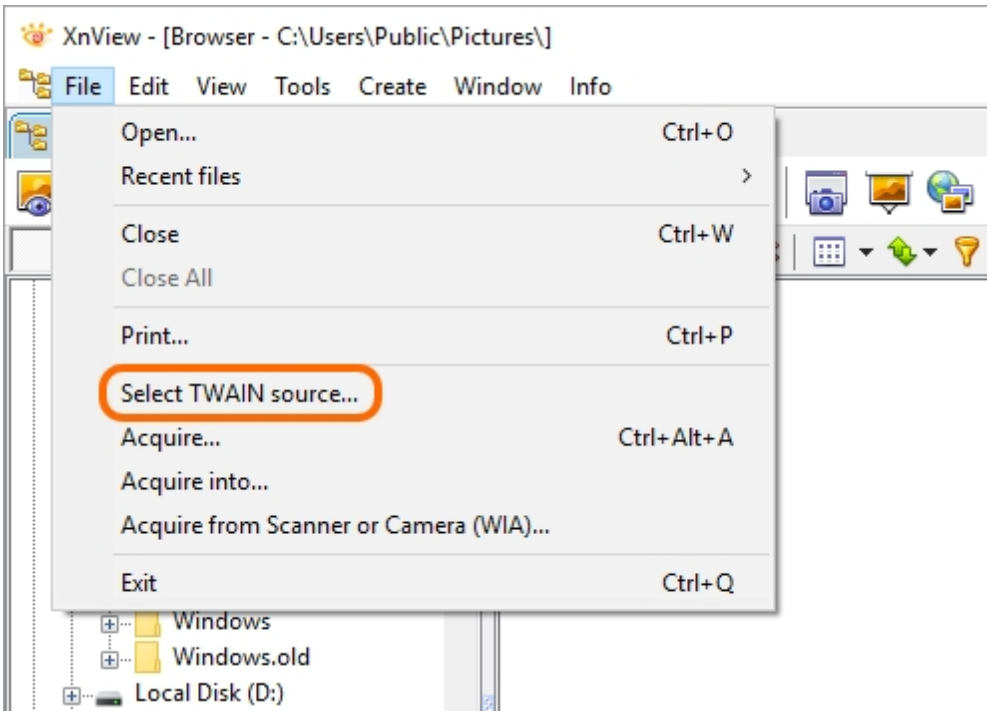
It should be reminded that **inPhoto ID SLR** is an image source in **TWAIN** connection.

So, turn on the camera and start **inPhoto ID SLR**.

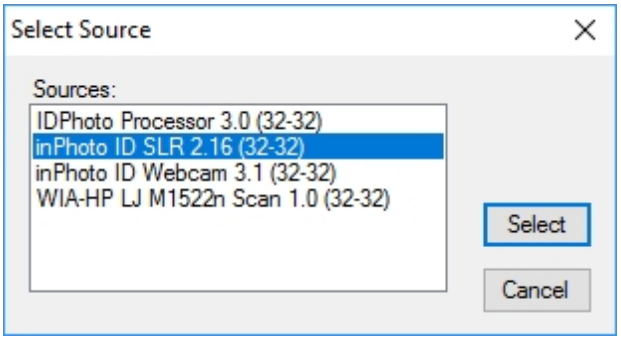
Unlike the rest of the program functions, the **Capture to TWAIN** button and the menu item are disabled. This is right. The possibility to transfer images via **TWAIN** driver will arise when **inPhoto ID SLR** receives a request from the third-party application for opening **TWAIN** connection. By this moment, the **Capture to TWAIN** elements will be disabled.



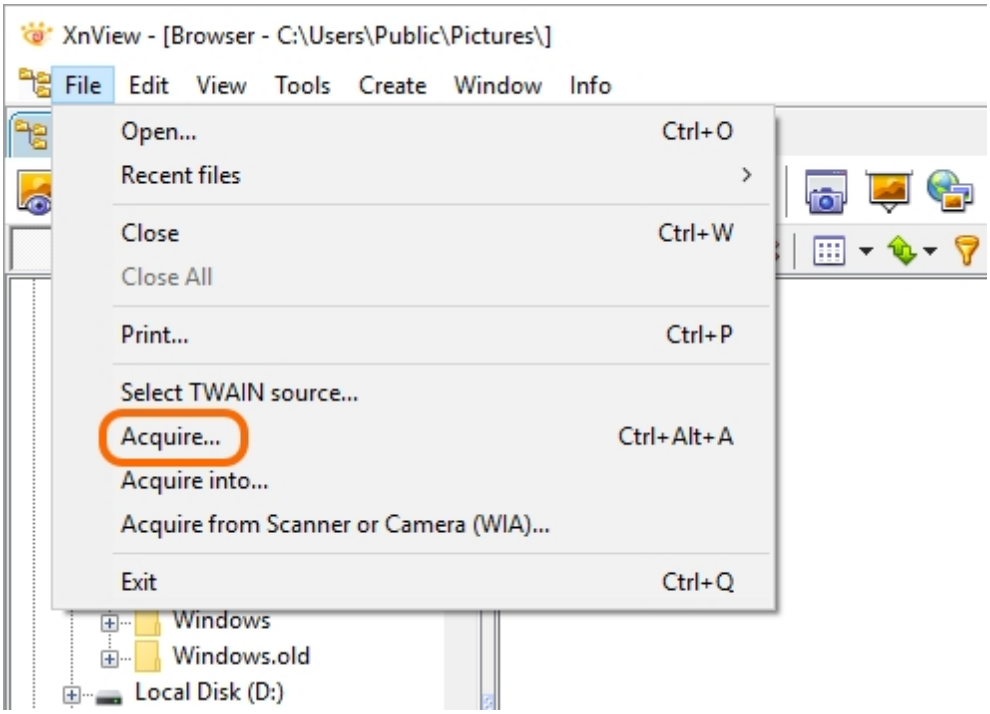
Let's open **TWAIN** connection and enable **Capture to TWAIN** function. For this purpose, start **XnView**, enter **File** main menu and select **Select TWAIN source**.



In the appeared **Select Source** dialogue, select **inPhoto ID SLR** from the source list.



Then, in the same **File** menu, select **Acquire**.

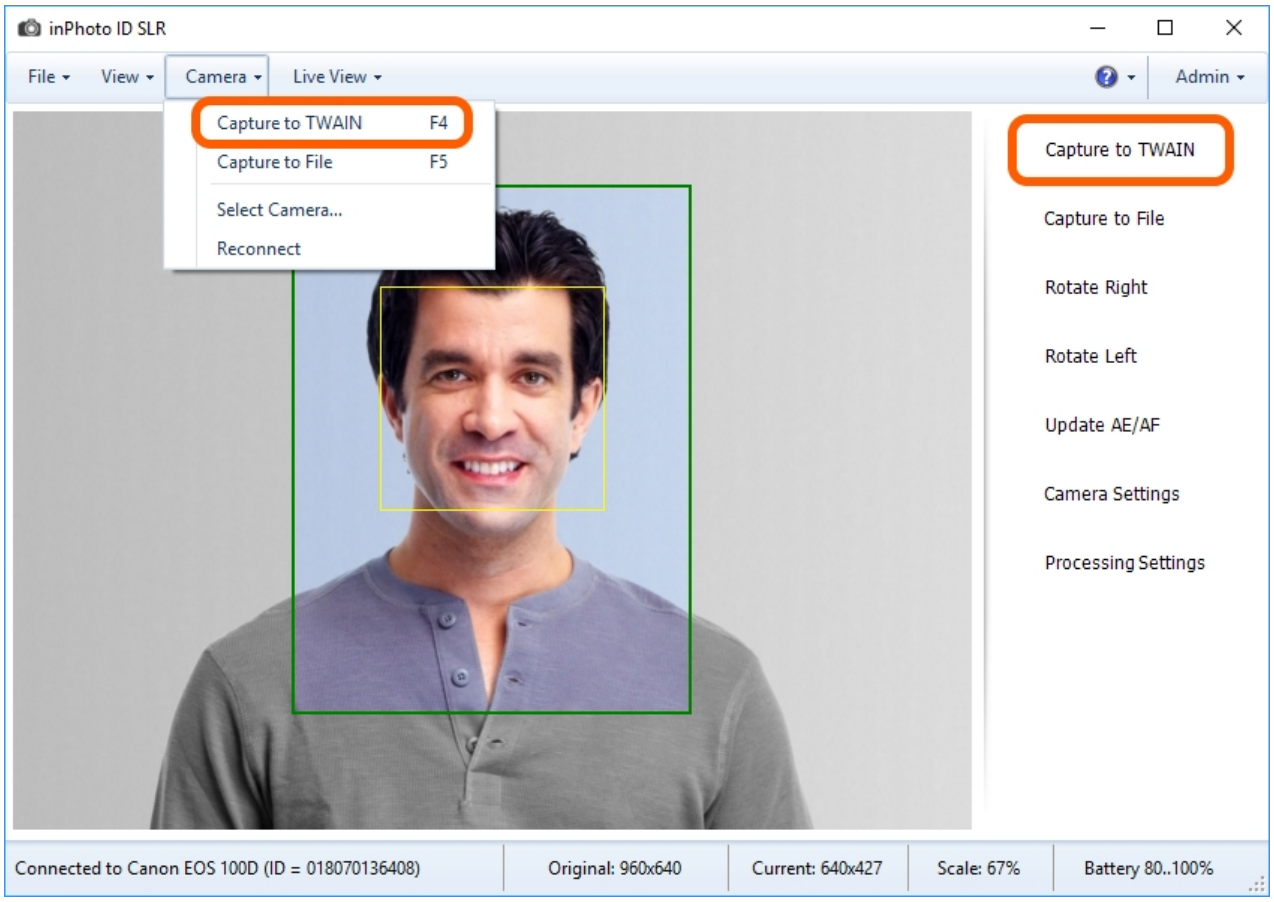


If by that moment, **inPhoto ID SLR** has been closed or minimized to a tray, now it will be started.

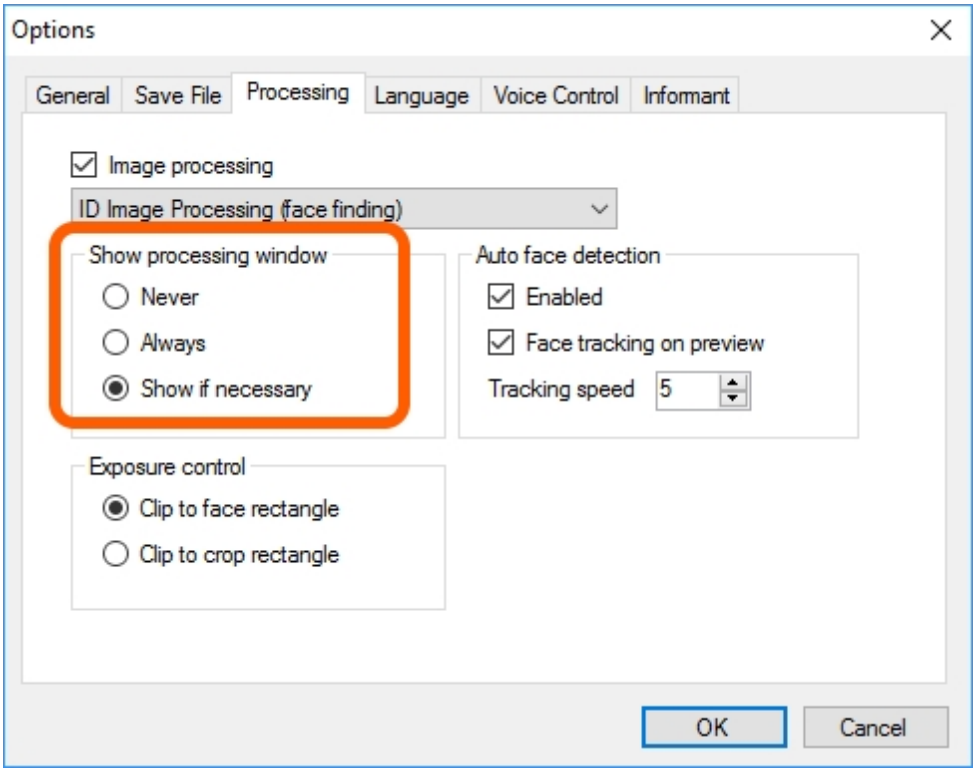
So, we connected **XnView** to **inPhoto ID SLR** via **TWAIN** protocol. Now we move to **inPhoto ID SLR** - **Capture to TWAIN** menu item and button now have been enabled.

Next, run **Capture to TWAIN**. The command can be started from the **Camera** main menu > **Capture to TWAIN** or from the side menu by pressing the **Capture to TWAIN**.

When a picture is taken, the program's preview stops. This is a normal behaviour, because when you are capturing an image the camera's preview stops too.



Further course of processing depends on the **processing settings** set by the user. Please note that the key processing settings are located in the **File** main menu > **Options** > **Processing** tab.



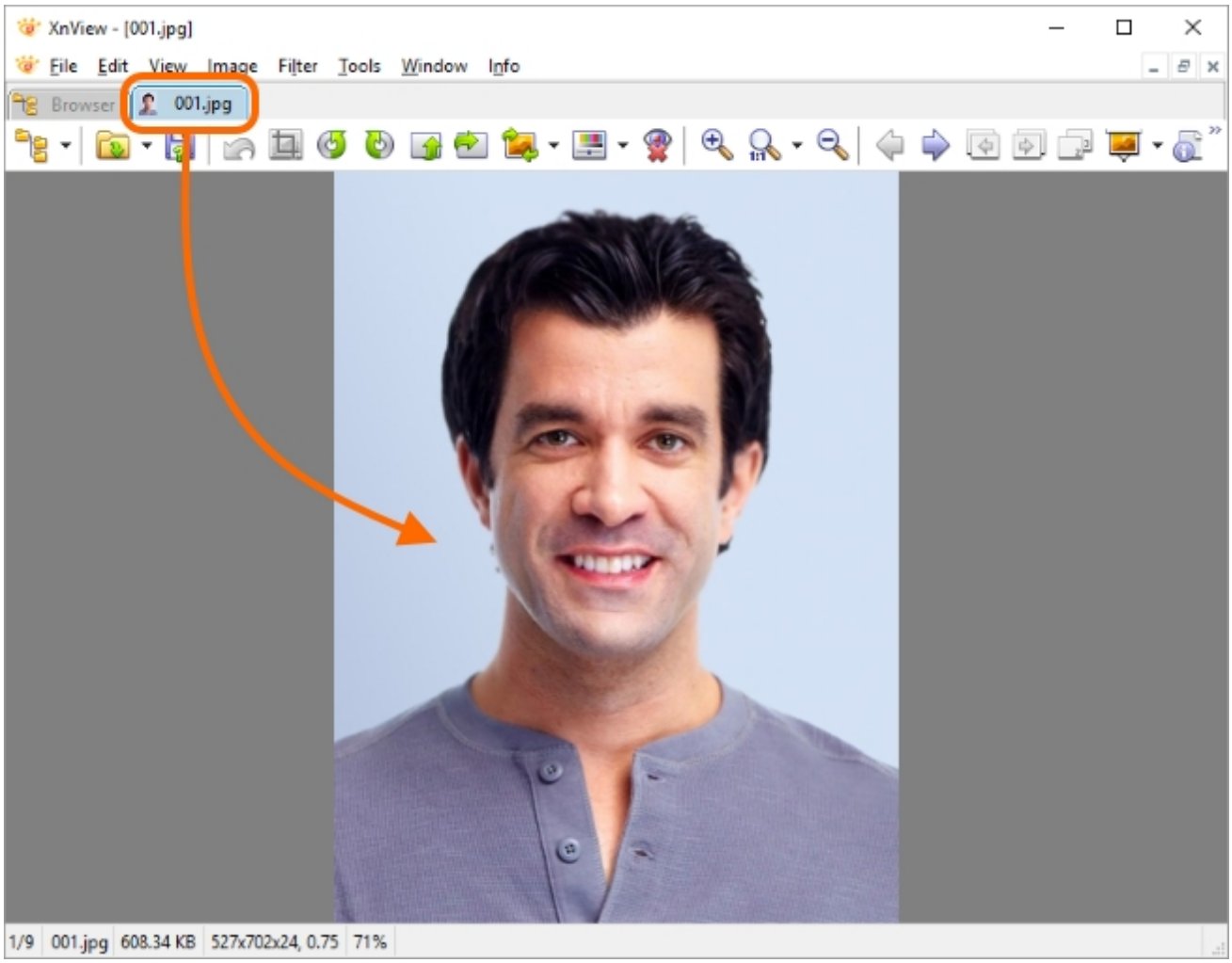
If the **Show processing window** option is set the **Always** value, then the **ID Image Processing** dialogue will be called up for image being processed.

If the dialogue opening setting is set to the **Show if necessary** value, the dialogue will be opened only if a user's participation is needed for processing the image. The dialogue will not be opened for successfully processed photos.

If the **Never** option is selected, processing will be carried out without opening the **ID Image Processing** dialogue. Images that cannot be processed automatically will remain unchanged.

You can read more details on processing settings and the **ID Image Processing** dialogue in the **General Settings**, **ID Image Processing dialogue**, and **Actions** sections.

After completing the processing procedure, we return to **XnView** and look at the result of the command **Capture to TWAIN**. As can be seen on the picture, the image are successfully captured, processed and transferred to **XnView**.



The process of connecting to other applications via **TWAIN** driver is similar to that, exemplified by **XnView**. It is noteworthy that applications may close the channel for **TWAIN** driver after image transfer is completed. Because of the channel closure, the **TWAIN** connection will be lost and the **Capture to TWAIN** button will be disabled. To enable it, you need to repeat the process of selecting a scanner.

Please note that **inPhoto ID SLR** is set by default as to be minimized to tray after processing completion. More details on settings regulating processing completion may be found in the **Processing Completion** section.

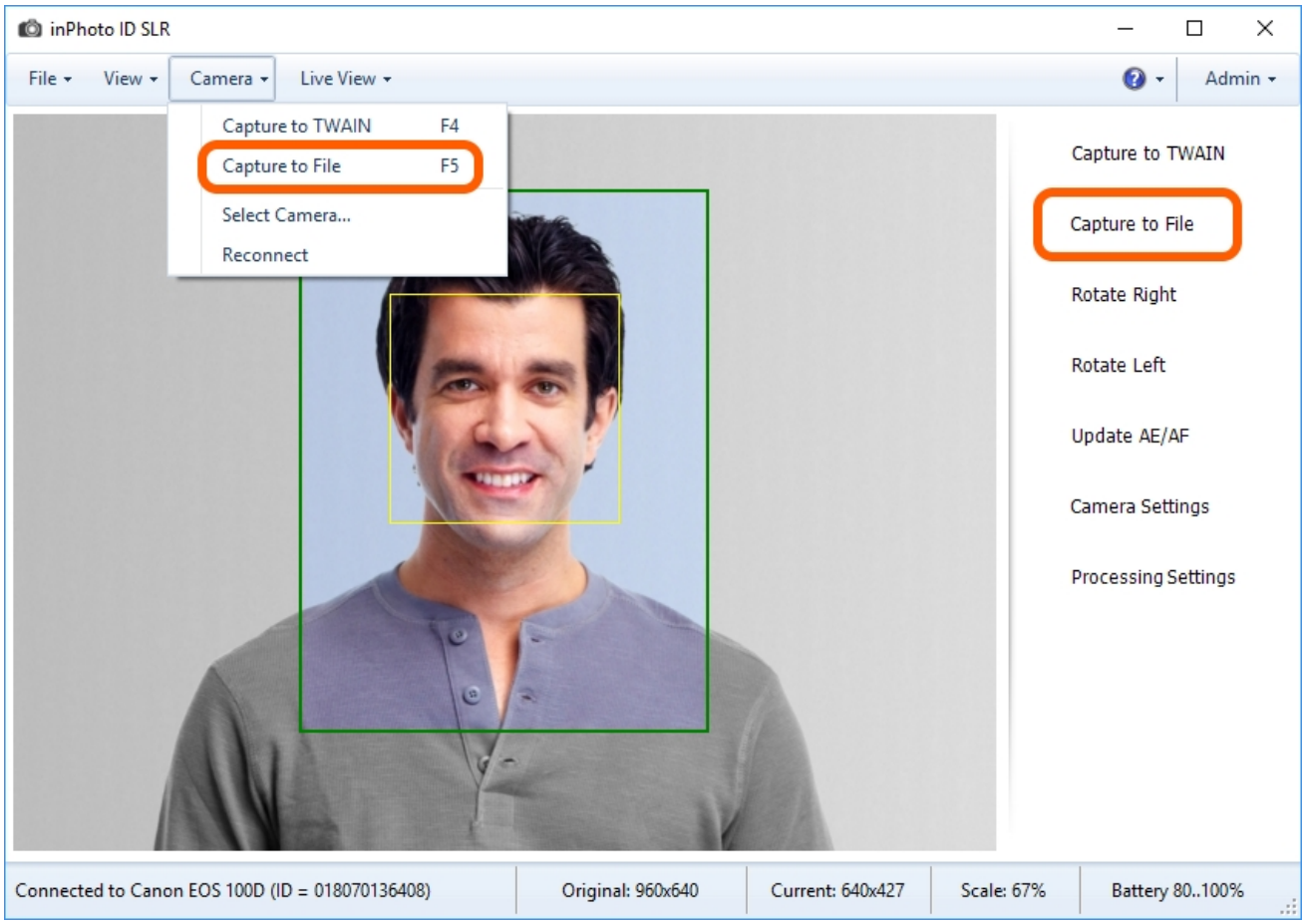
Capture to File

The **Capture to File** command executes snapshot, its processing and saving to the specified place on the drive.

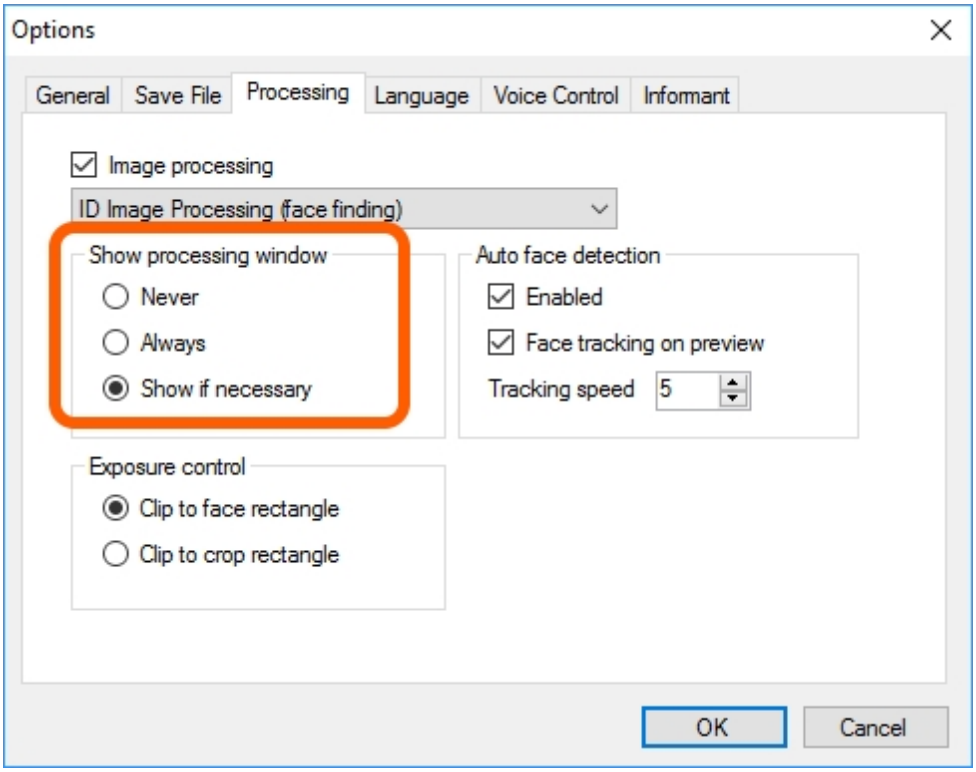
The command can be started from the **Camera** main menu > **Capture to File** or from the side menu by pressing the **Capture to File** button.

So, let's run the **Capture to File** command and take a look at how it works.

When a picture is taken, the program's preview stops. This is a normal behaviour, because when you are capturing an image the camera's preview stops too.



Further course of processing depends on the **processing settings** set by the user. Please note that the key processing settings are located in the **File** main menu > **Options** > **Processing** tab.



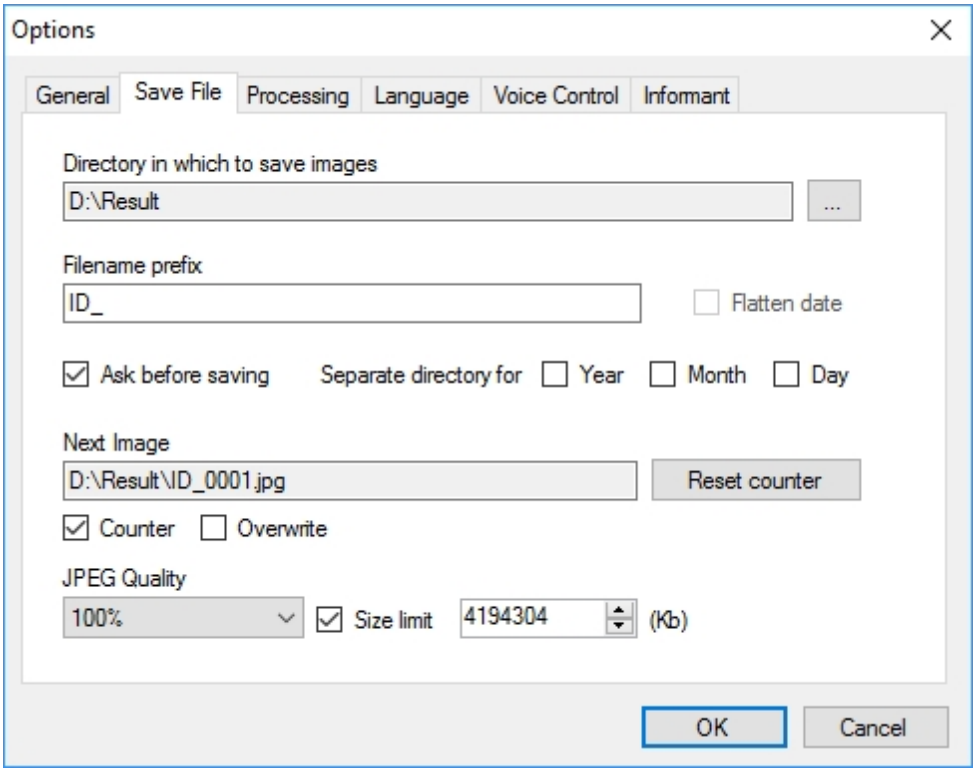
If **Always** is selected in the settings, then the **ID Image Processing** dialogue will be called up for image being processed.

If the dialogue opening setting is set to the **Show if necessary** value, the dialogue will be opened only if a user's participation is needed for processing the images. This value is set by default. The dialogue will not be opened for successfully processed photos.

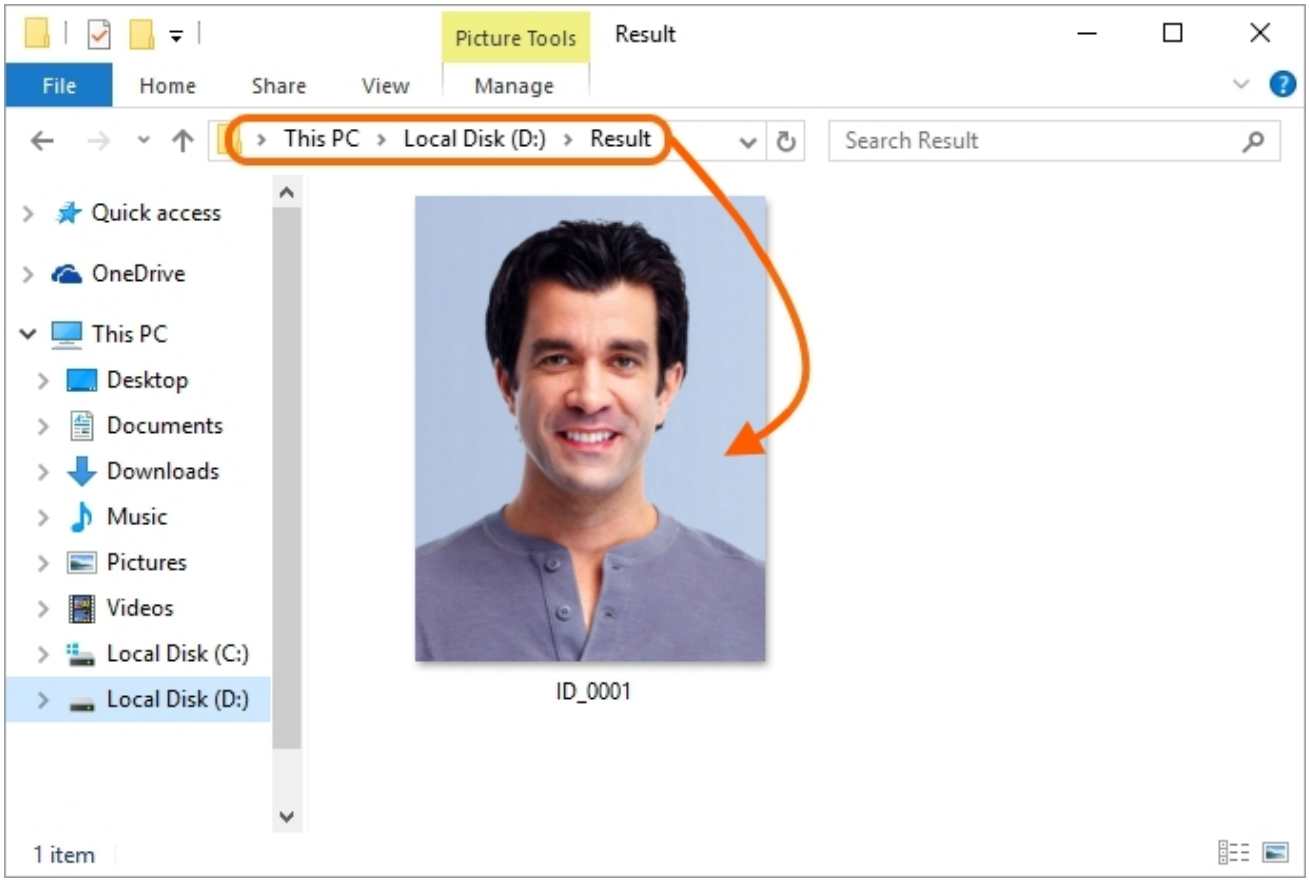
If the **Never** option is selected, processing will be carried out without opening the **ID Image Processing** dialogue. Image that cannot be processed automatically will remain unchanged.

You can read more details on processing settings and the **ID Image Processing** dialogue in the **General Settings**, **ID Image Processing dialogue**, and **Actions** sections.

Then, to see the processed images we enter the **folder indicated** in **saving settings**. Please note that the saving settings are located in the **File** menu > **Options** > **Save file** tab.



The result looks like this. You can see in the picture that photo have been successfully captured, processed and saved to the specified folder.



By default, **inPhoto ID SLR** is set as to be minimized to tray after processing completion. More details on settings regulating processing completion may be found in the **Processing Completion** section.

Chapter 7. Voice Control

inPhoto ID SLR provides the following voice features: process control using voice commands and voice message indication before shooting.

This features are described in details in the following sections:

Voice Control

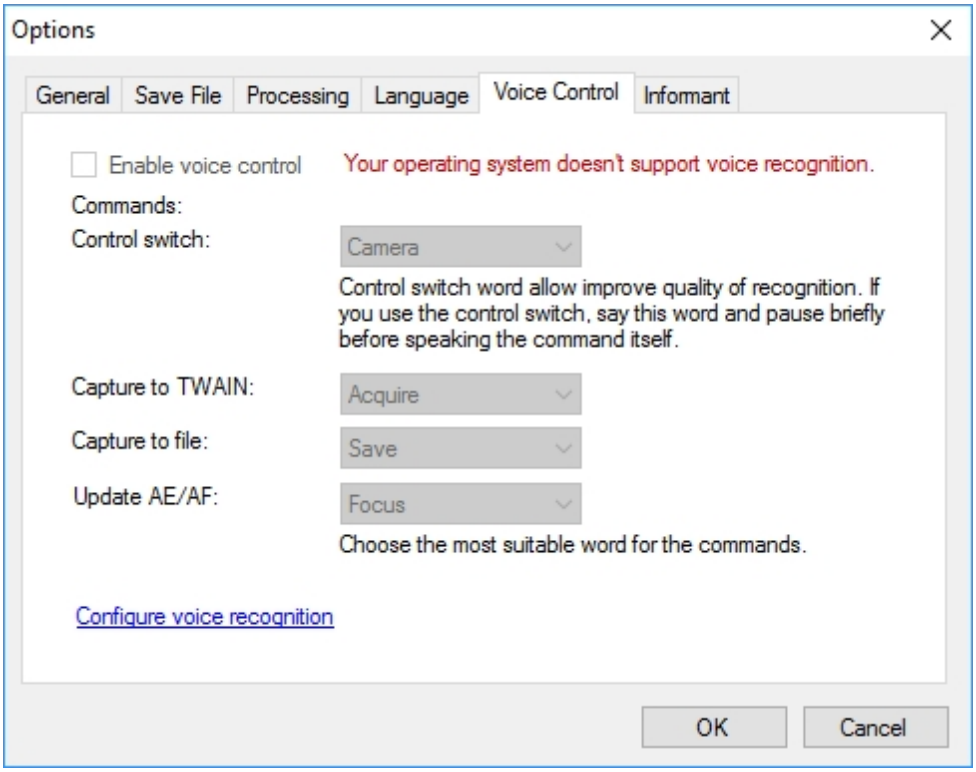
Voice Informant

Voice Control

The voice features allow user to manage image shooting and processing remotely. In other words, after frame setting you can freely move giving voice commands and **inPhoto ID SLR** will recognize and execute them.

To use voice features, connect a microphone to your PC.

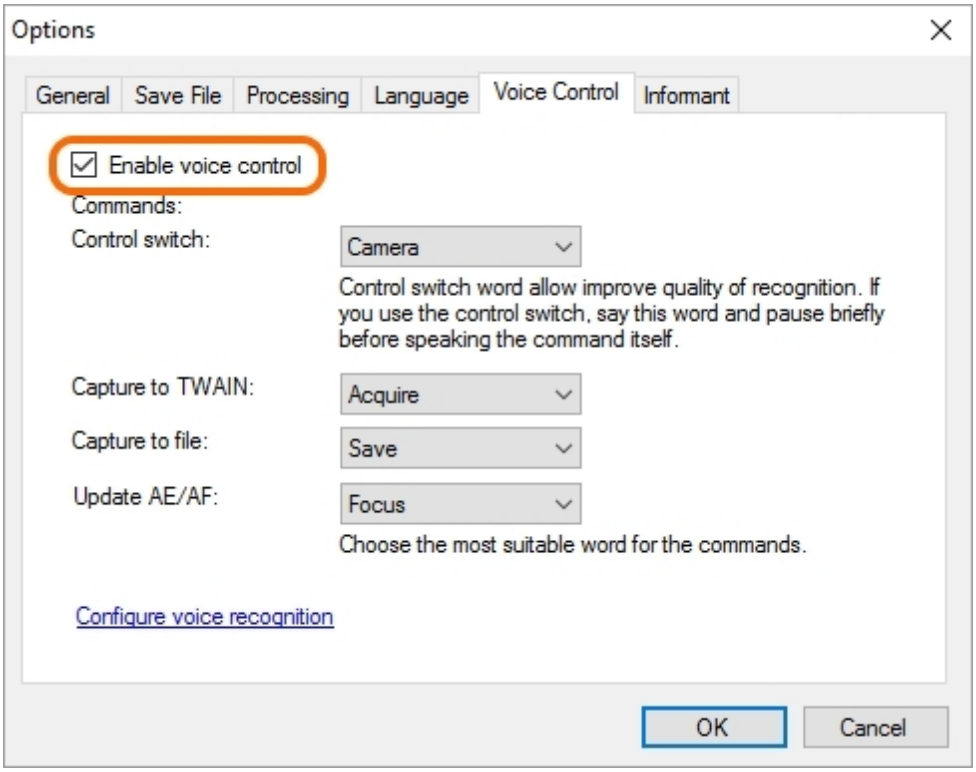
Please note that the voice features are only available if the language your system locale is English. The Microsoft Windows system doesn`t support speech recognition for other languages. If your system locale is not English, you will see the follow message **"Your operating system doesn`t support voice recognition"** opposite to the **Enable voice control** setting and the setting itself will not be activated.



At the time of writing of the User Guide, English is included in the **Windows Enterprise** and **Windows Ultimate** packages. You can add English In **Windows 10** for any operating system modifications. How to identify the language of your system locale and how to change, it you can find it out on the Microsoft website by clicking on the following links: http://windows.microsoft.com/en-us/windows/change-system-locale#1TC=windows-7 - for **Windows 7**, http://windows.microsoft.com/en-us/windows/change-system-locale#1TC=windows-vista - for **Windows Vista** and http://windows.microsoft.com/en-us/windows-10/how-to-add-an-input-language-to-your-pc#v1h=tab01 - for **Windows 10**.

Then, we are describing how to use voice features step-by-step.

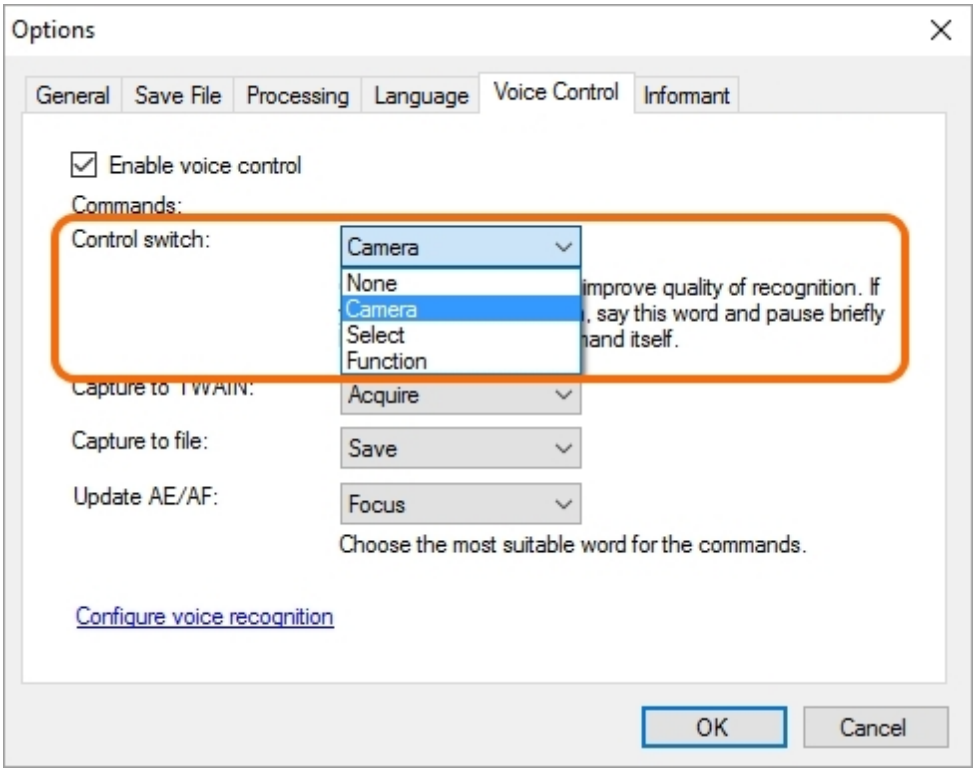
Step 1. Switch on the **Enable voice control** setting. After that, all fields of the tab are activated.



Step 2. The tab contains the possible commands. There are a list of command launching words against each command.

The **Control switch** command helps to improve recognition of other commands. So, if a control switch is on, the words specified for other commands will be recognized by the program only after the control switch word sounding. If you say the launched word and don`t say the control switch before it in everyday speech, the word will not be considered by the program as the voice command.

If you are not convenient to use the control word you can select the **None** value. In this case, you just have to say one word to launch the corresponding command.



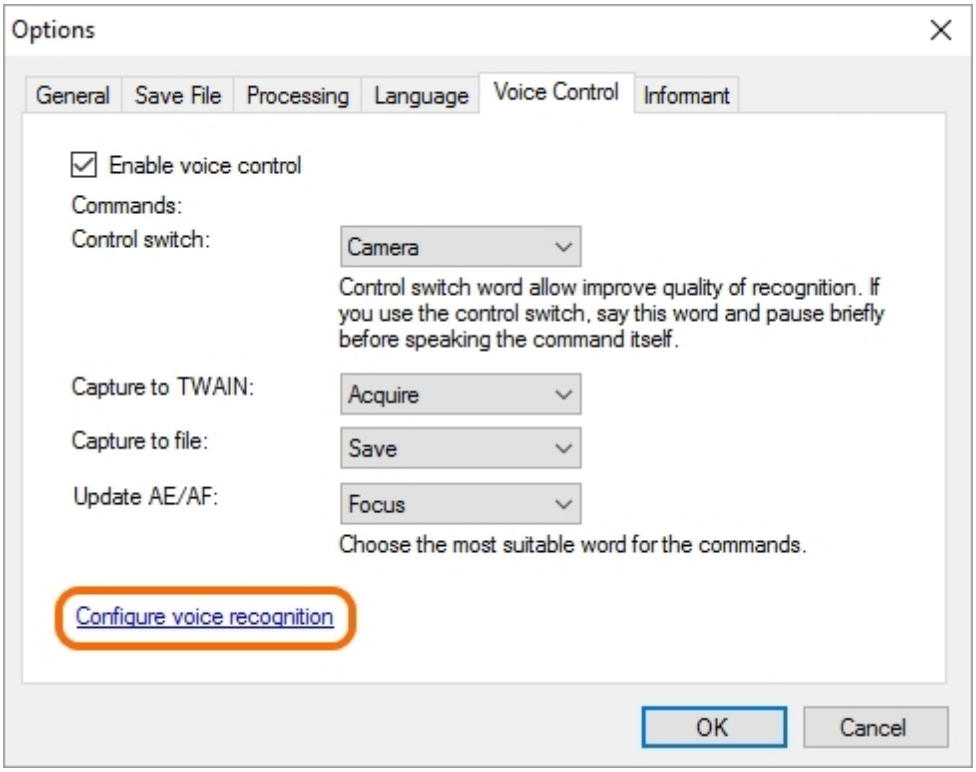
More details on the **Capture to TWAIN** and **Capture to File** commands you may be found out in the **Processing** chapter, the **Capture to TWAIN** and the **Capture to File** sections.

The **Update AE/AF** command is described in the **Camera** chapter, the **Update AE/AF** section.

Then, select a launching word for each command that you intend to use. For this reason, say the launching word and evaluate how it is convenient to use.

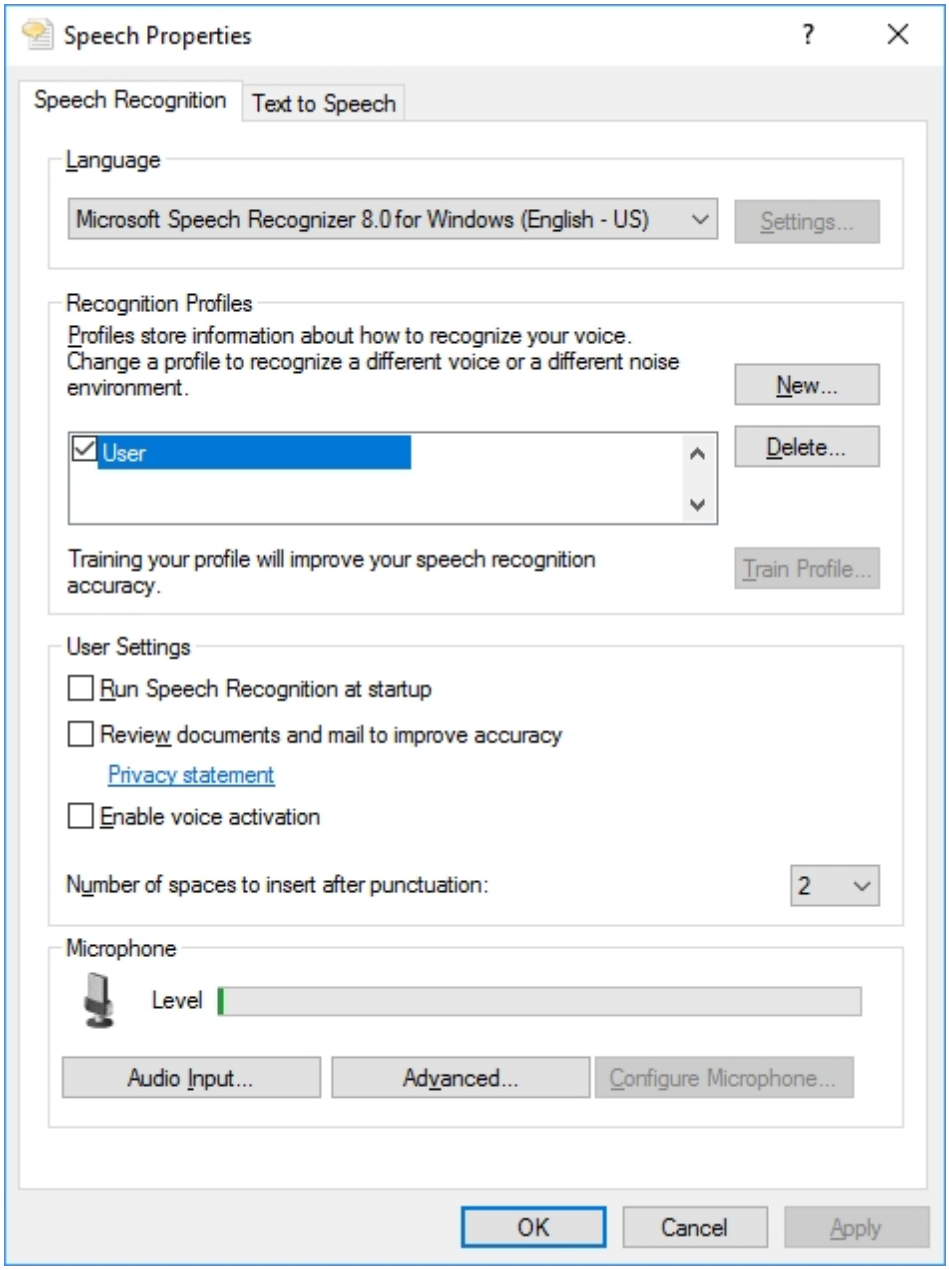
Step 3. At this step, we are describing how to configure and test your microphone.

The **Configure voice recognition** link located at the bottom of the tab opens the **Speech Properties** dialogue.



You can select the desired microphone in the dialogue (if several devices are connected) to check that it works properly, to listen to your message recorded through the selected device, to change the microphone settings.

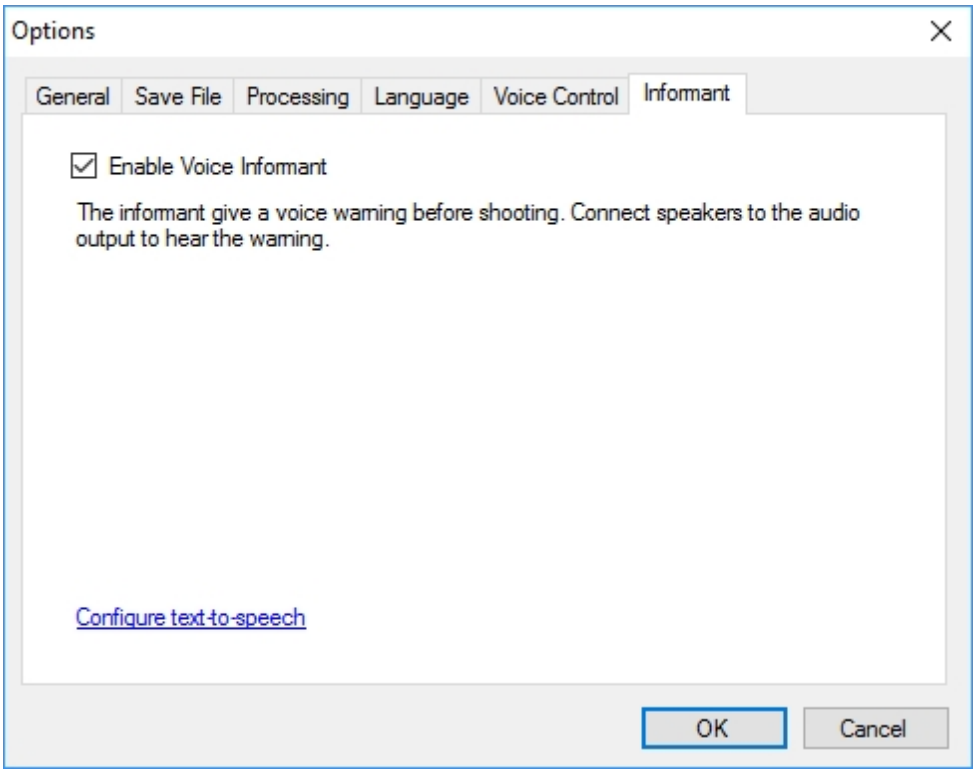
So, change the microphone settings if required, make sure the microphone transfers your voice messages to the operating system and then proceed to the next step.



Step 4. To be sure the voice command has been recognized and implemented, it is convenient to use the voice commands together with the voice informant. The voice informant displays a countdown panel for shooting and transfers the "**Attention! Look in to the camera. Shooting!**" voice message to the playback device. Thus, if the voice informant is counting down, it means your voice command is implementing.

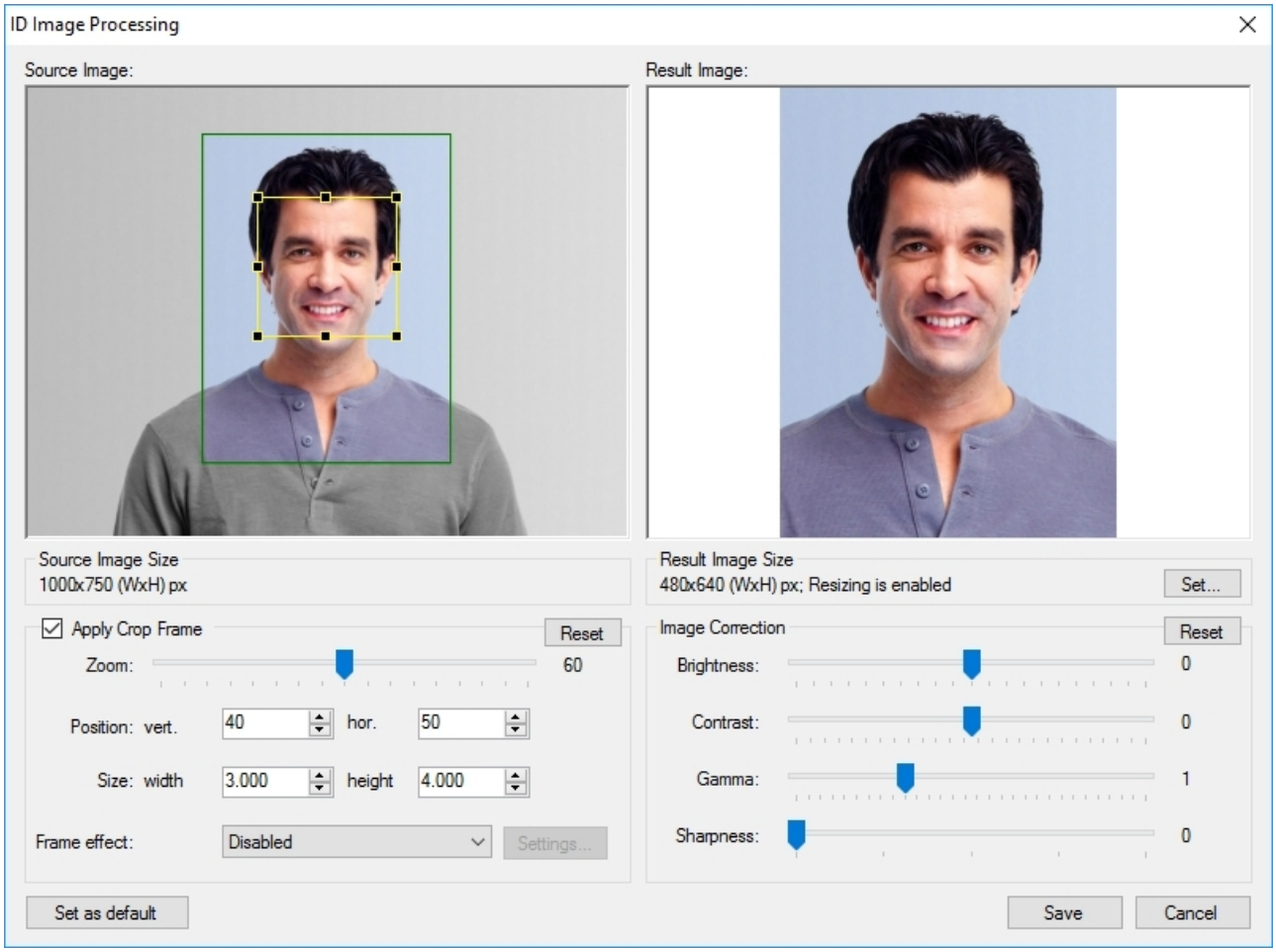
*The informant is launched only just before shooting. It will therefore be active during implementation of the **Capture to TWAIN** and **Capture to File** commands. Please note that the informant will not be applied to the **Update AE/AF** command.*

More details on the voice informant may be found in the **Voice Informant** section. At this stage, you are recommended to read about it and switch it on. However, switching on isn`t a mandatory action for use of the voice commands.



Step 5. When your microphone is ready, the launching words are selected, the voice informant is on, say your voice command and check out the result of its implementation.

So, say one of the launching words loud and clear, for example, **Save**. If the voice informant is on, you will hear a message and see a countdown timer in the program window; after that, the image will be captured and then processing will be launched. The program can open the dialogue of image processing during processing. That cases the dialogue will be called up and that actions you can select therein are described in more details in the **General Settings**, **ID Image Processing dialogue** and **Actions** sections.

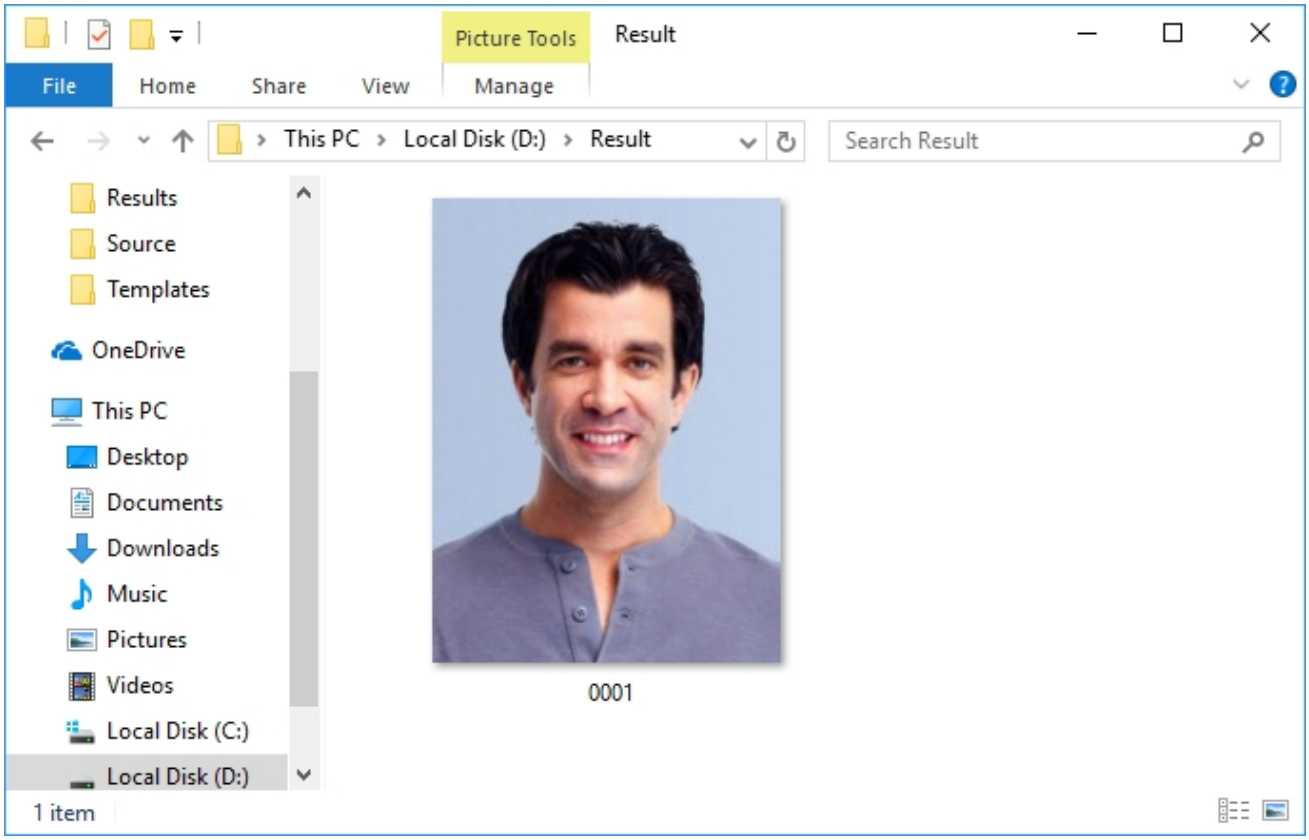


If your voice command has not been recognized, use an alternative launching word or correct the microphone settings.

Step 6. Let`s check the command execution result. We have said the **Save** word that launched the **Capture to File** command, therefore the image should be captured, processed and saved in the specified folder on the disk.

*The folder into which the program will save processed images you may be entered in the main menu: **Options** > **General** > **Save file** > **Folder to save images**.*

The command has been successfully executed as shown in the picture below: the processed image is located in the folder.

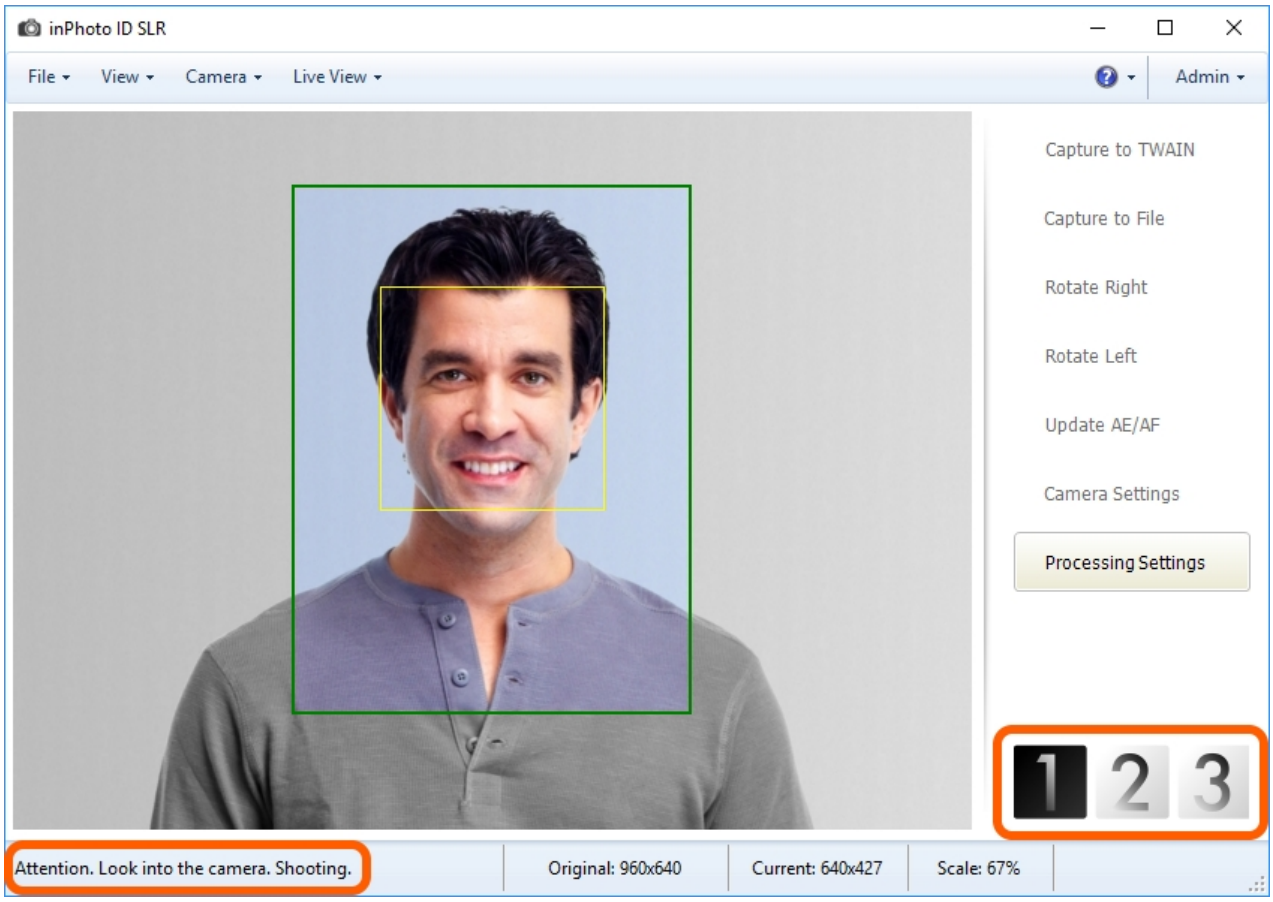


Voice Informant

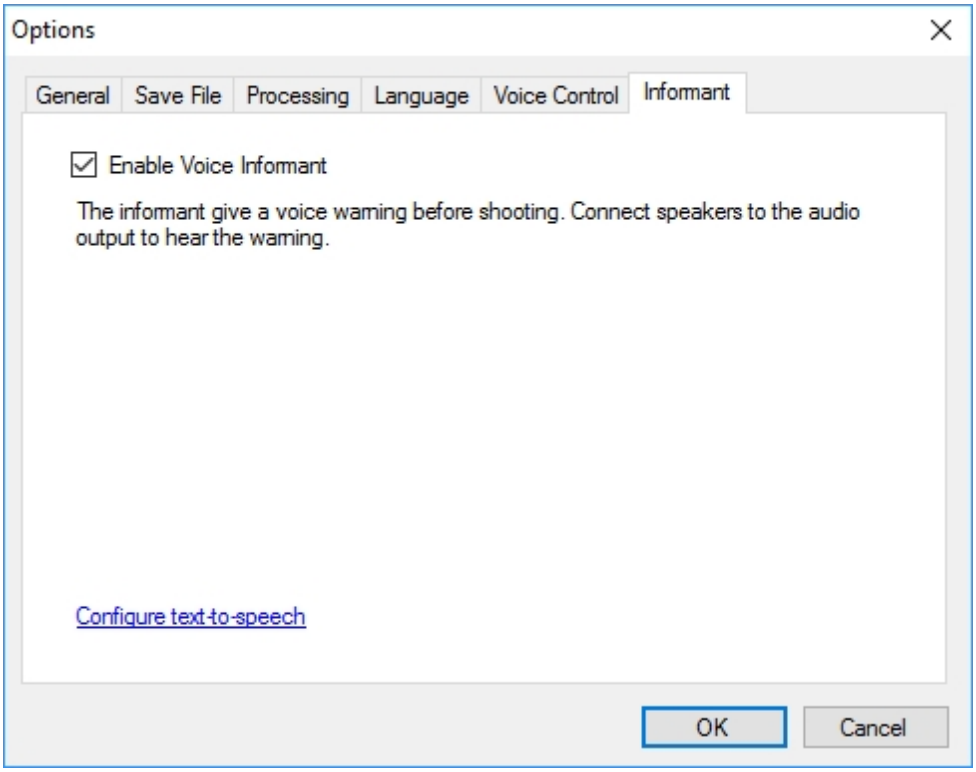
The function of the voice informant is to transfer a message to the playback device before shooting.

If the informant is on, the user will hear the "**Attention! Look in to the camera. Shooting!**" voice message before shooting. In parallel with the message sounding text of the message is displayed in the status bar and a counting down timer is displayed in the preview.

To hear the message make be sure the sound device of your PC (speakers, a headset etc.) is on.

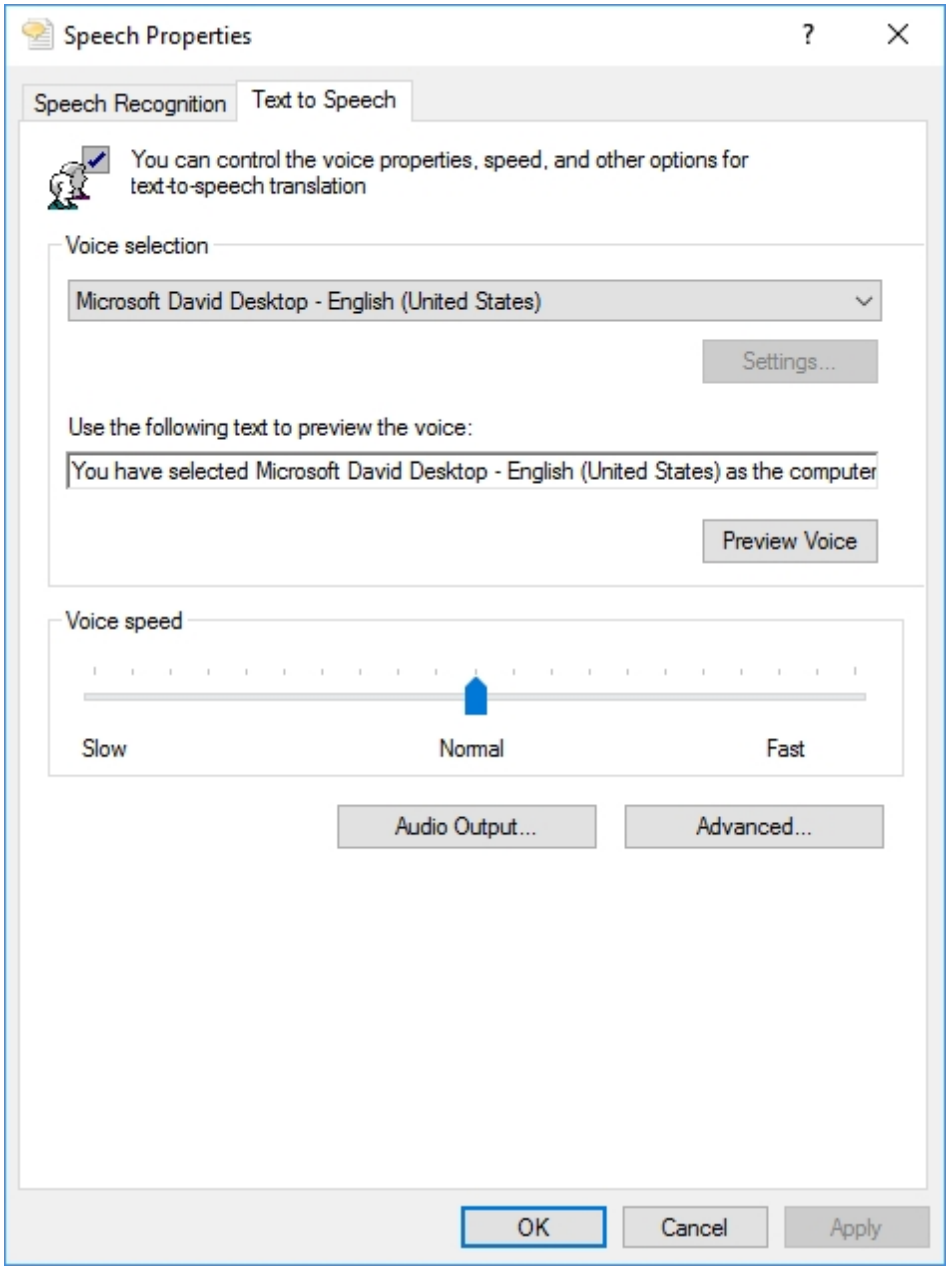


The informant settings are located in the **File** main menu > **Options** > the **Informant** tab.



The **Enable Voice Informant** setting switches on/off a voice message indication before shooting.

The **Configure text to speech** link launches a dialogue to set the speech. The dialogue is open on the **Text to Speech** tab. On the tab, you can select and listen to the voice that will sound the message, set the voice speed, define the audio output device.



To see how does the voice informant work, switch on the **Enable Voice Informant** setting and launch processing using the **Capture to TWAIN** or **Capture to File** commands. After that, a timer will be displayed on the preview. In parallel with counting down of the timer, the voice message will sound. Then image will be captured.

Chapter 8. Locking

The possibility is provided for **inPhoto ID SLR** to lock certain functions of the program.

Locking allows to protect the settings of the camera and the application from undesirable changes; the shooting and processing functions remain accessible in this case.

Locking activation limits access to the following functions of the application:

- **Options** located in the main menu **File** -> **Options**.
- **Processing settings** located in the main menu **File** -> **Processing settings**, as well as in the side menu.
- **Camera settings** located in the main menu **View** -> **Camera settings**, as well as in the side menu. The **Camera settings** window is opened in the "read only" mode. An user can view current settings but cannot change them.
- The main window resizing.
- Image rotation.
- The **Admin** menu.
- The **Set** and the **Set as default** buttons located in the **ID Image Processing** dialogue that appears during processing are locked. The **Set** button opens **Resizing Options** dialogue, the **Set as default** button saves the settings set in the dialogue as by default settings.

The following application functions remain accessible:

- **Capture to TWAIN** and **Capture to File** located in the main menu **Camera** and in the side menu.
- **Select camera**, **Reconnect**, **Update AE/AF** located in the main menu **Camera**. **Update AE/AF** is also located in the side menu.
- The tools for working with the preview: **Grid**, **Cross-Hair**, **Exposure control**, located in the main menu **Live View**.
- **Preview window** is located in the main menu **View**.
- The commands of scale changing are located in the main menu **View**.

- All commands in the menu: **Help**, **Send Error Report**, **Check for Updates**, **About**.
- The **Frame** and **Correction** settings located in the **ID Image Processing** dialogue when the dialogue is showed during processing. It should be remind that you cannot call the dialogue using the **Processing settings** command if the locking switch on.

The contents of the chapter are as follows:

Scheme of Working with Locking

How to Set Password

Locking

One-Time Access

Unlocking

Scheme of Working with Locking

Step 1. The administrator sets the application settings, e.g.: camera settings, processing settings, file saving settings, frame and image correction settings...

Step 2. When the **inPhoto ID SLR** setting is complete, the administrator enters the password and activates the locking. After that, the application settings will be inaccessible for changing.

Step 3. As long as the locking is activated, the user can only use the application functions that are not locked. Please remember the locking limits access for the users to the camera and application settings, shooting and processing commands remain accessible.

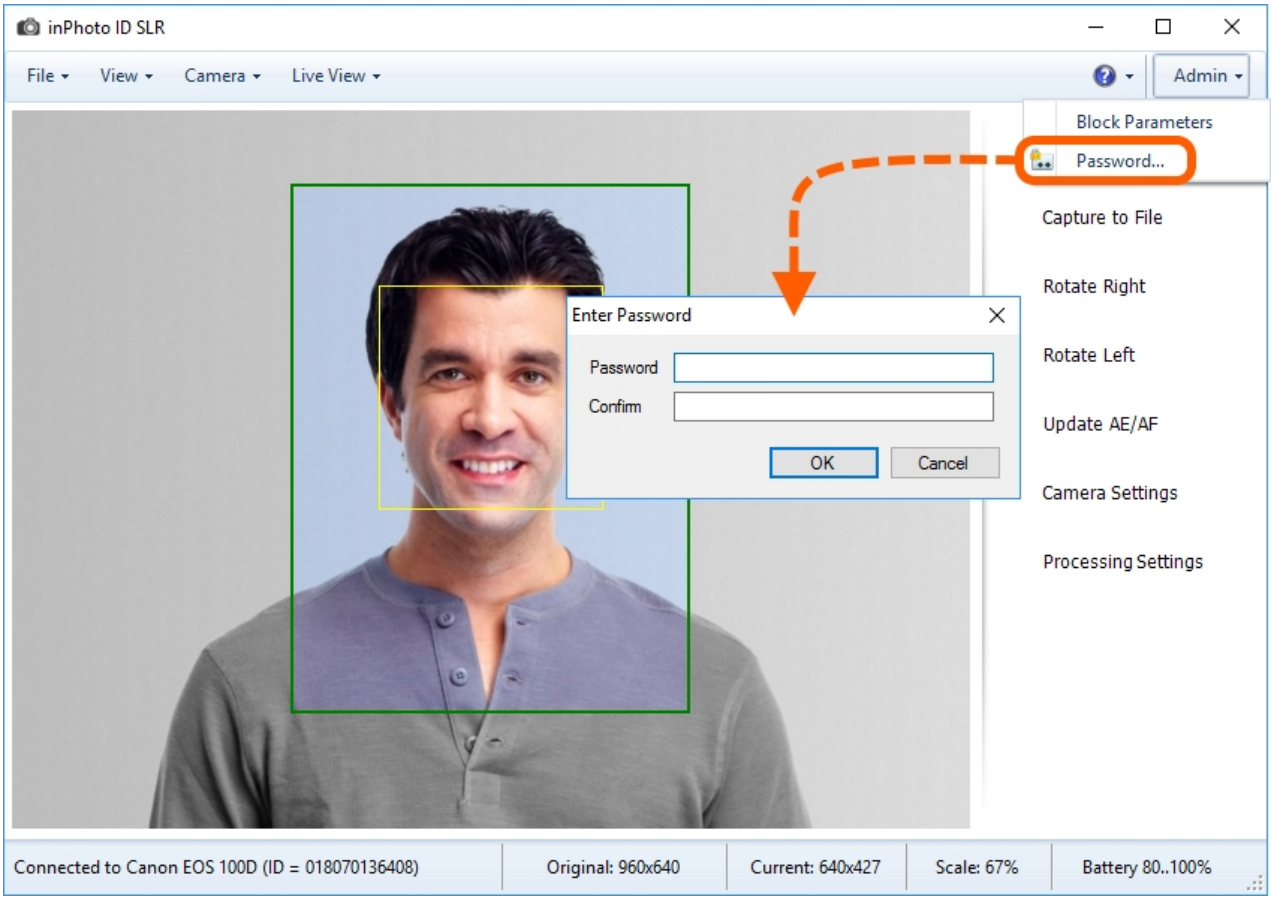
Step 4. When the administrator need to change some settings, he may use one-time access to locked function or deactivate locking.

In the first case, after the administrator has changed the settings the application automatically lock them again.

In the second case, all the application functions become accessible.

How to Set Password

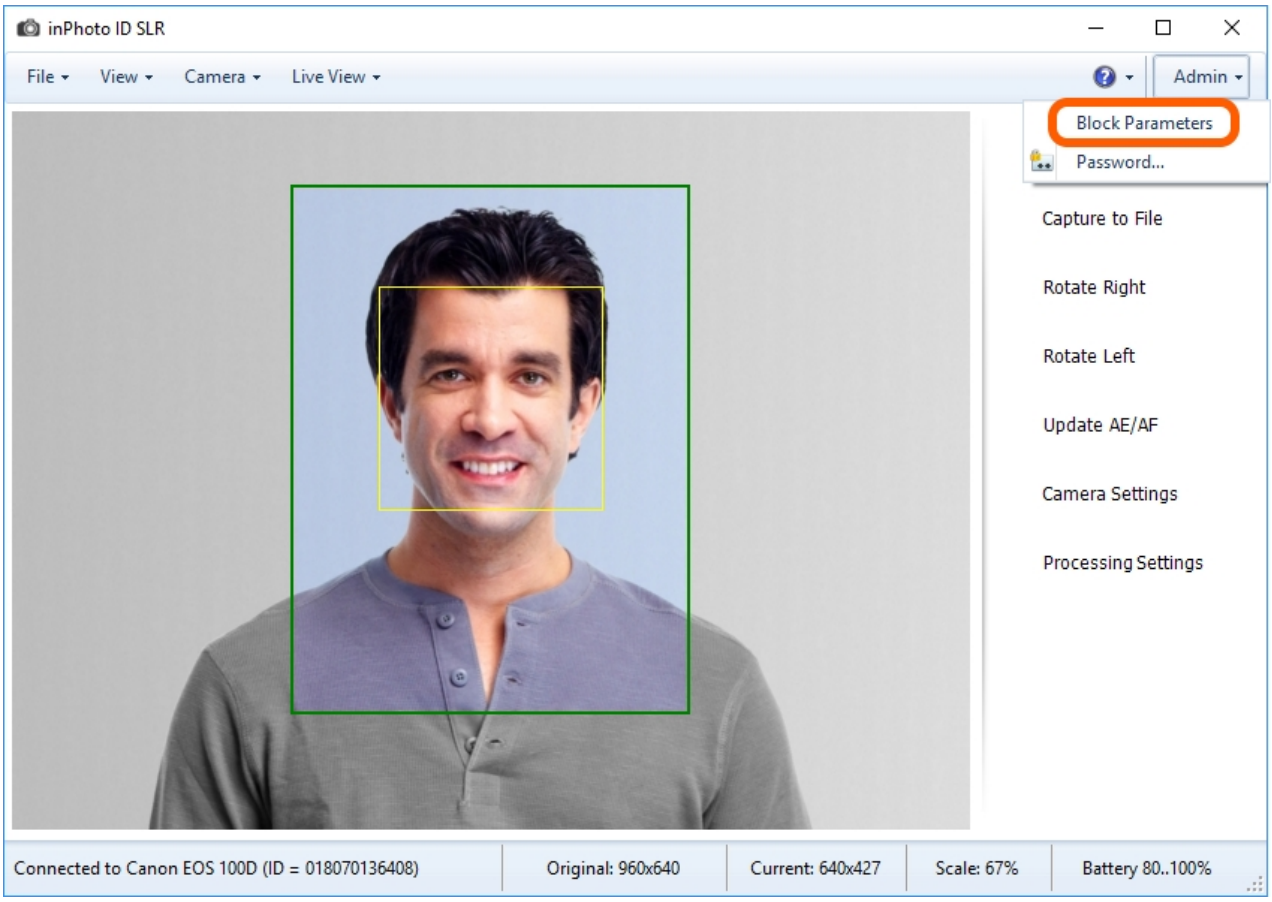
To set password open the **Admin** menu and select the **Password** item, in the appeared window, enter password in the **Password** field, re-enter password in the **Confirm** field, close the window by pressing the **OK** button.



To change password, **deactivate locking** if it is activated, then set new password.

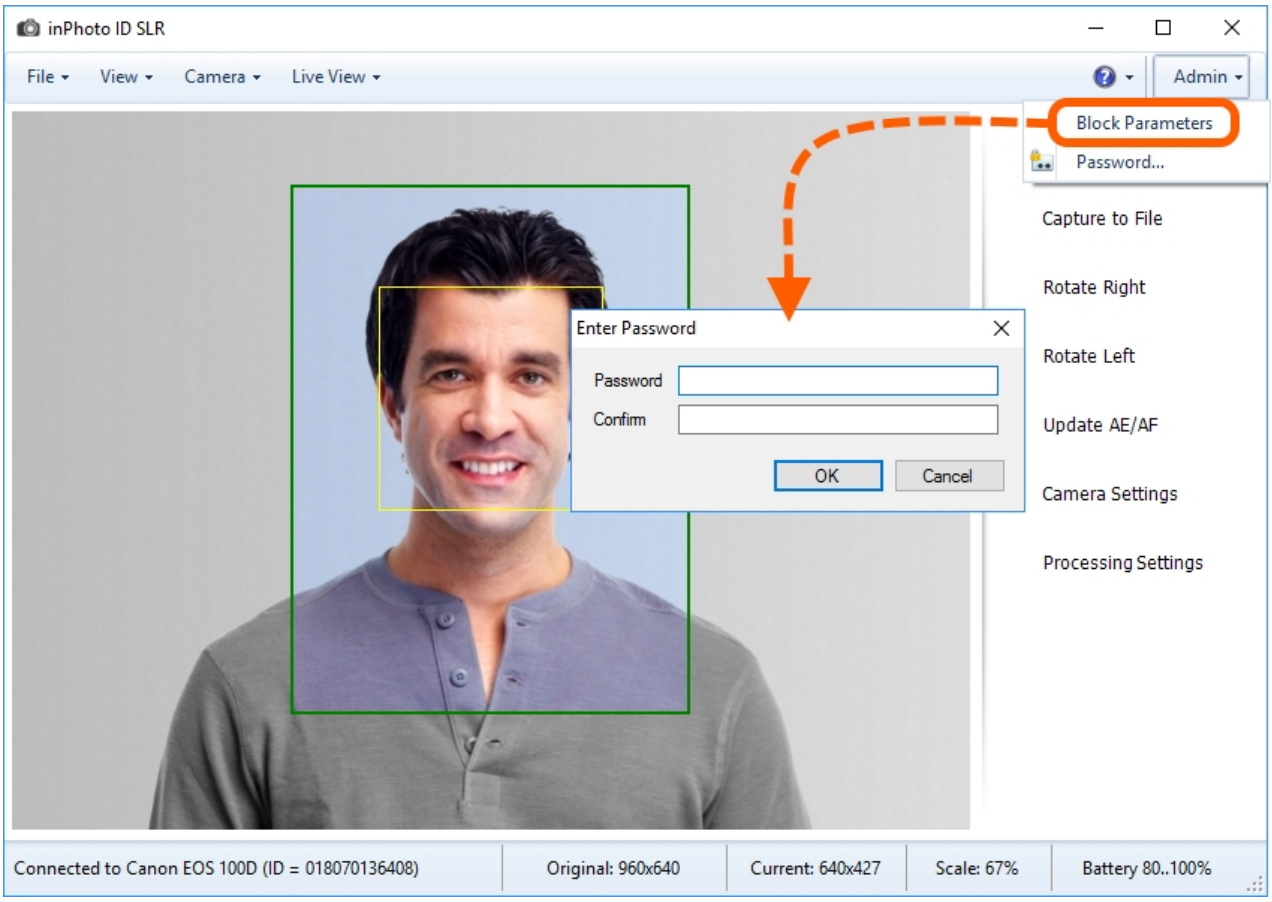
Locking

To activate locking open the **Admin** menu and select the **Block Parameters** item.

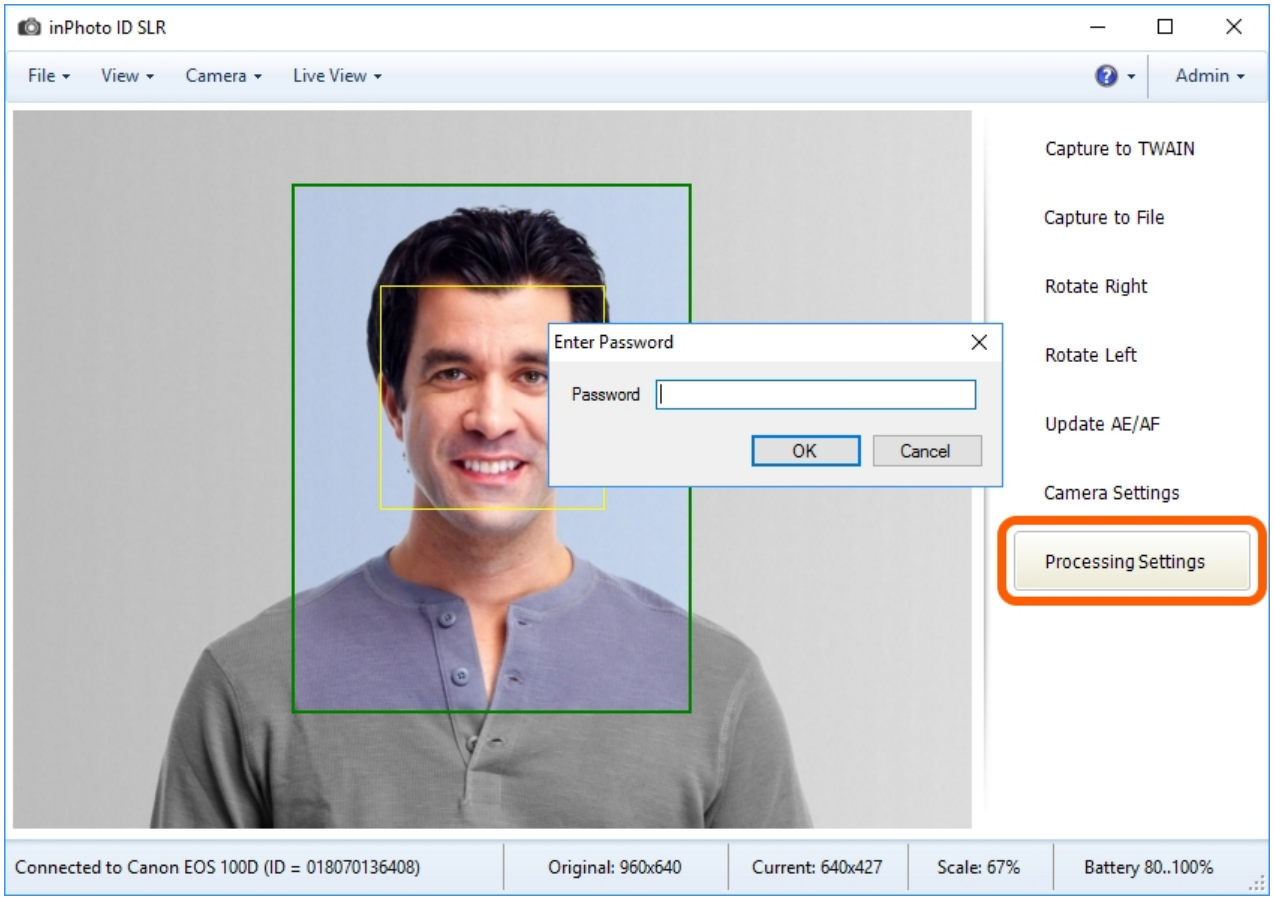


If you press the **Block Parameters** item after you have set password locking will be simply activated.

If you press the **Block Parameters** item but you have not set password the application will open the password window. In appeared window, enter password in the **Password** field, re-enter password in the **Confirm** field and close the window by pressing the **OK** button. After that, locking will be activated.



Now if you call the locked function the application will request the password.



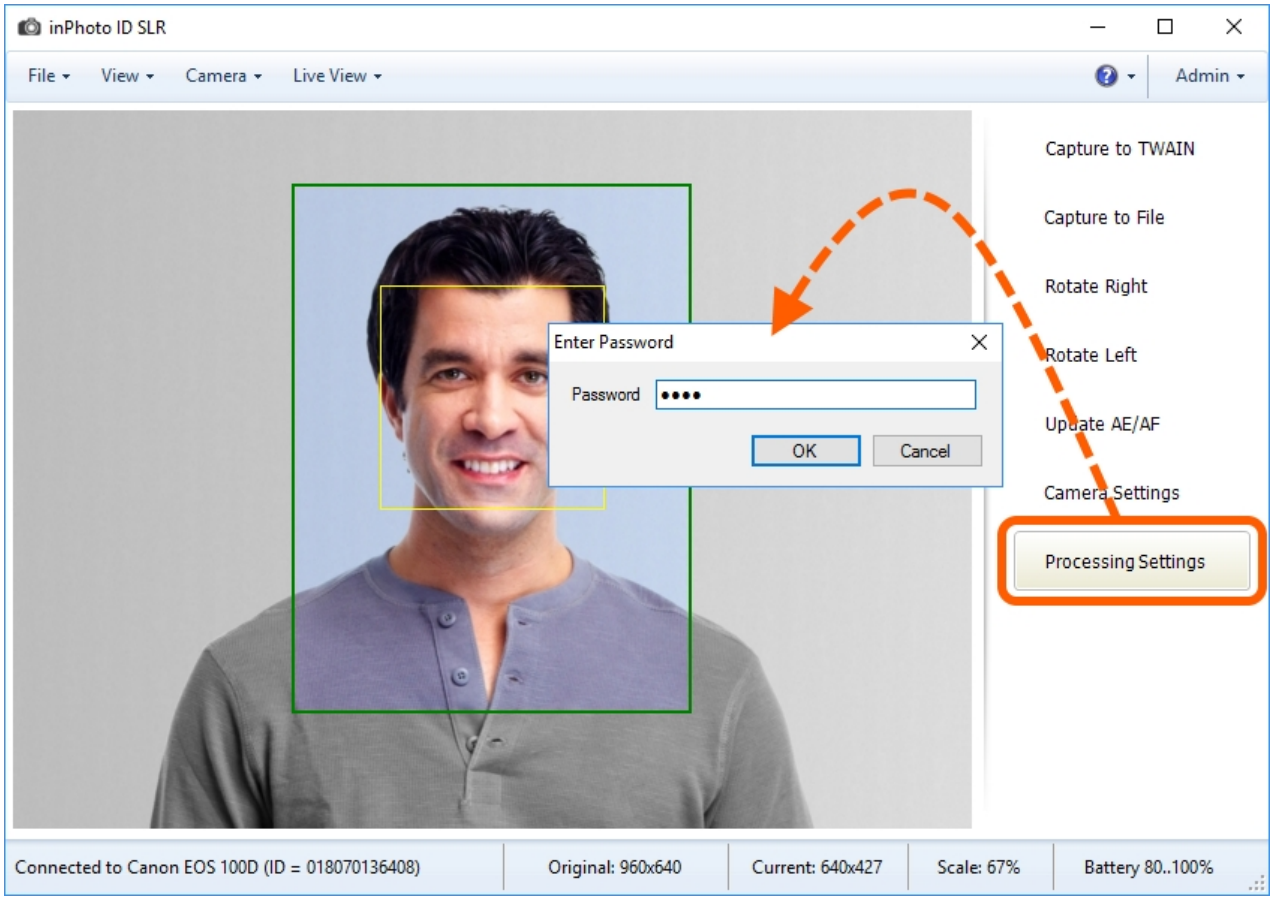
How to get one-time access to locked function, please see **One-Time Access**.

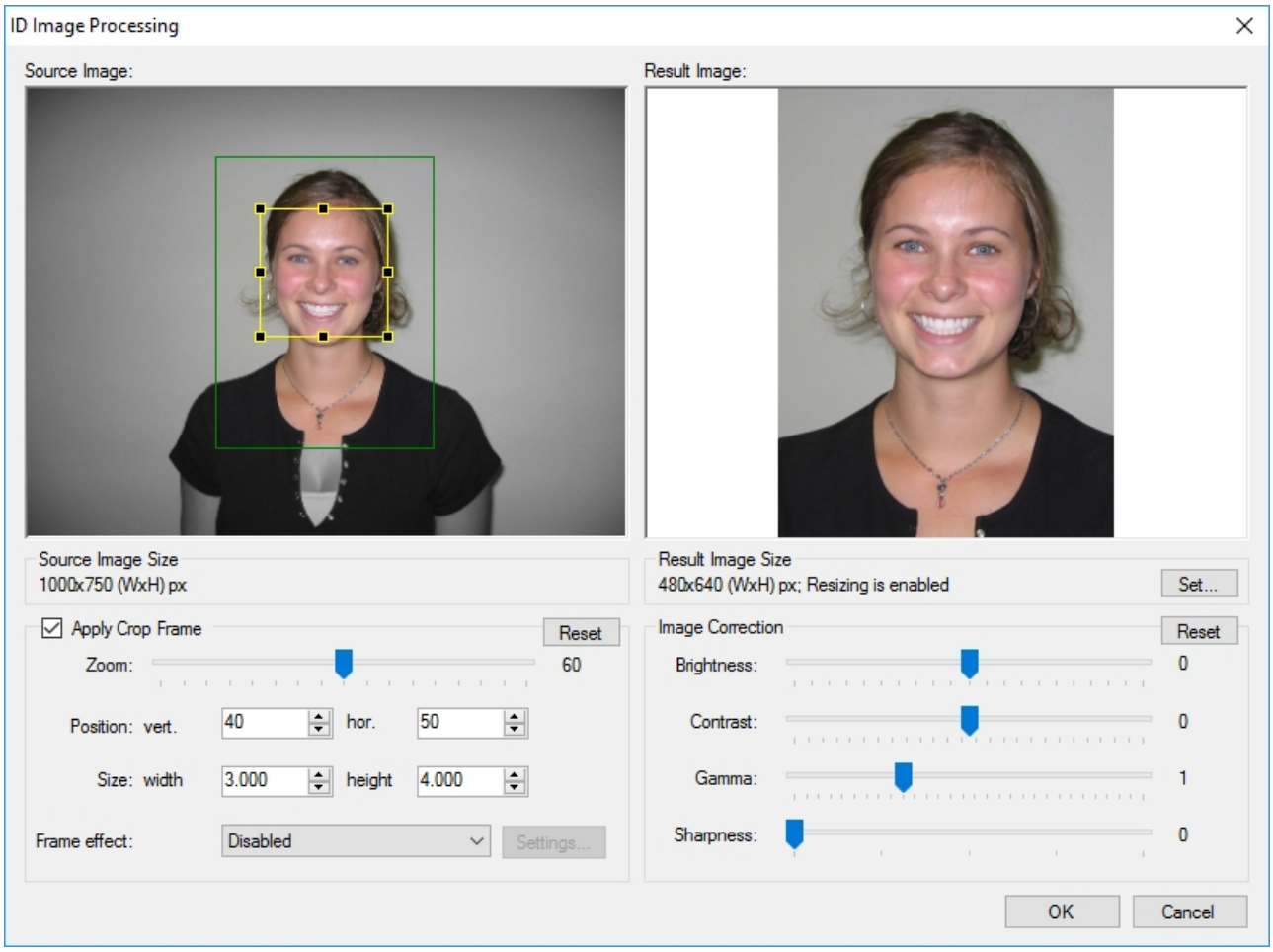
How to deactivate locking, please see **Unlocking**.

One-Time Access

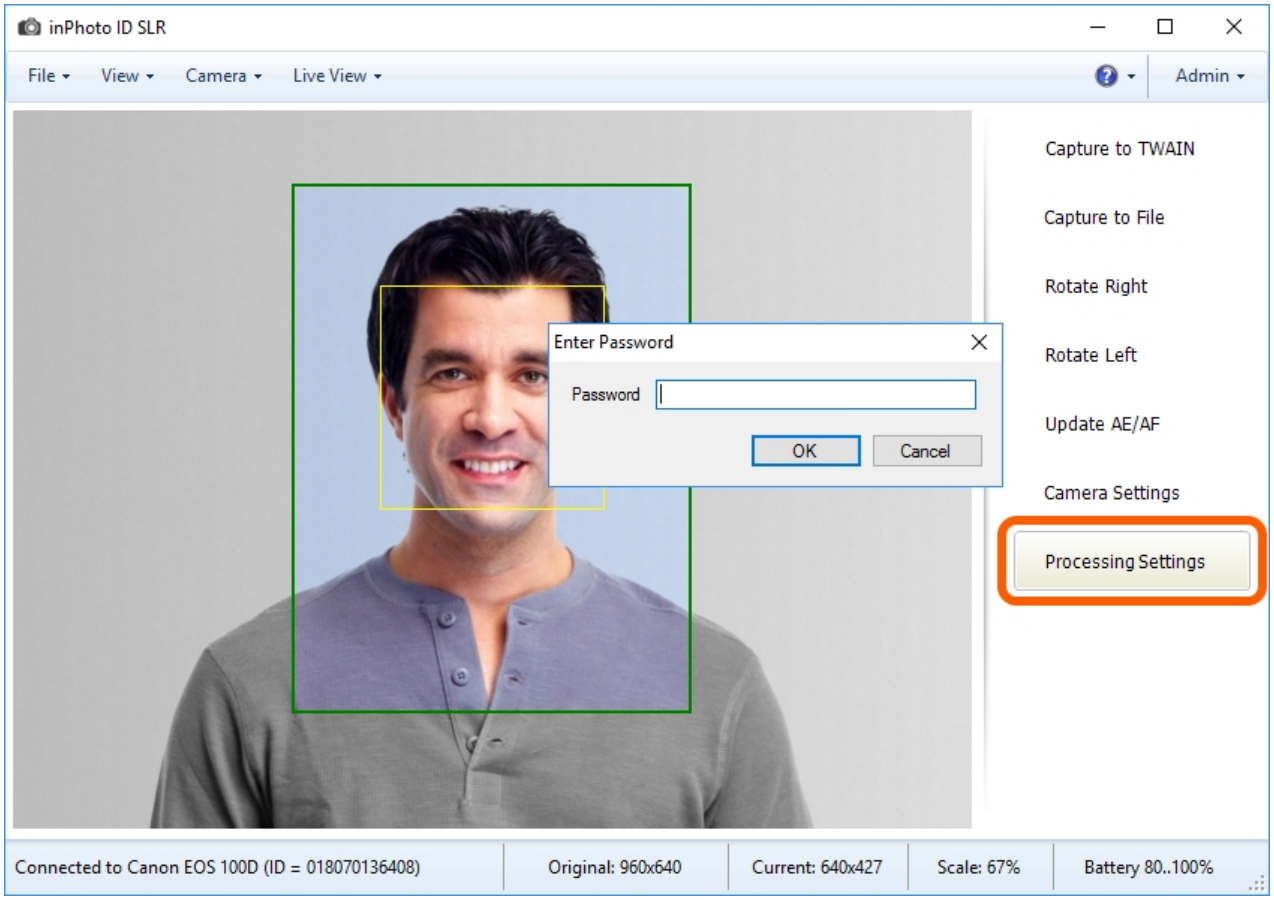
You can get the access to any locked function without unlocking.

For this purpose, press the menu item or the button of the required function then, in the appeared window, enter the password and press **OK**. After that, you can use the function.



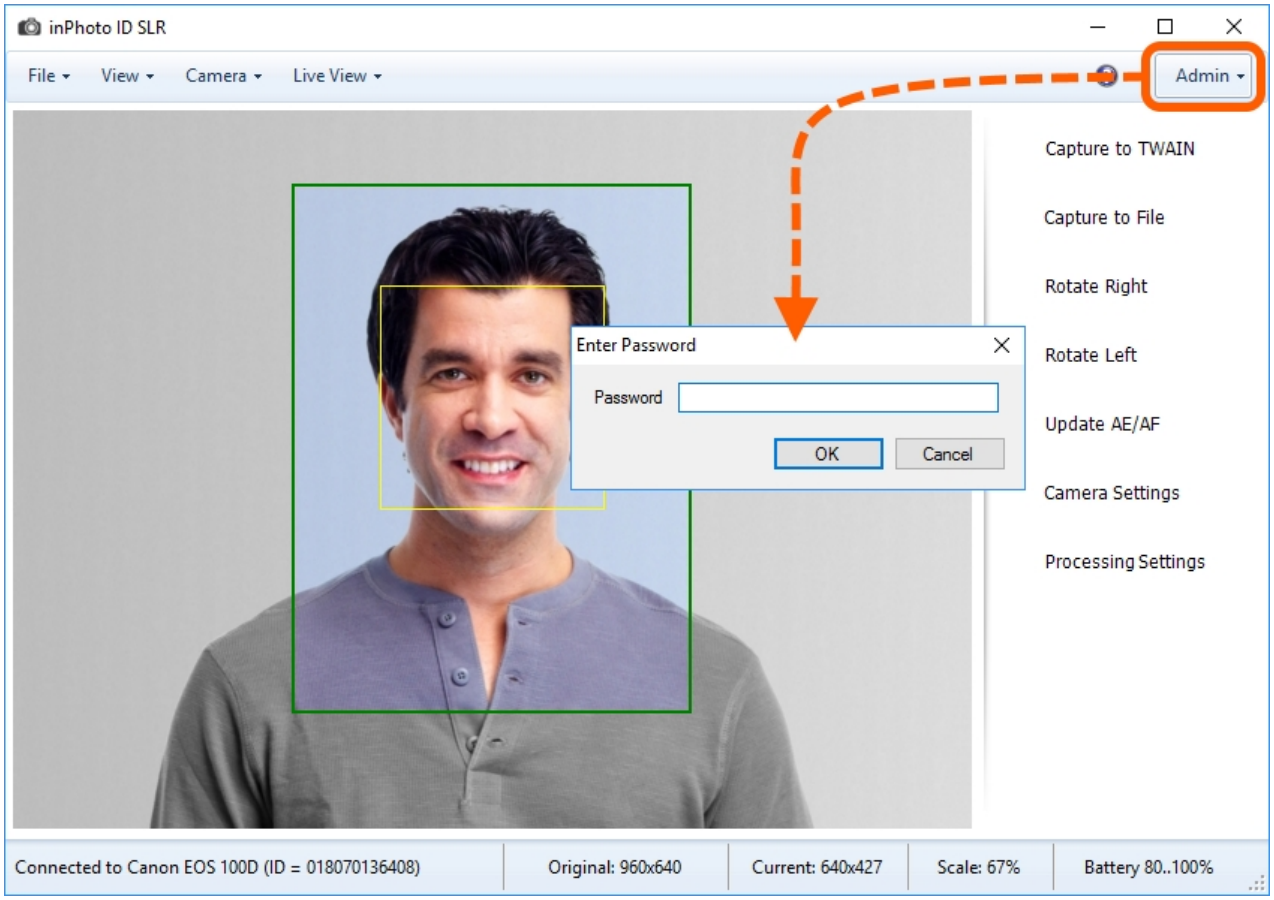

ID Image Processing
Source Image:
Result Image:
Source Image Size
1000x750 (WxH) px
Result Image Size
480x640 (WxH) px; Resizing is enabled
Set...
Apply Crop Frame
Reset
Zoom:
60
Position: vert.
40
hor.
50
Size: width
3.000
height
4.000
Frame effect:
Disabled
Settings...
Image Correction
Reset
Brightness:
0
Contrast:
0
Gamma:
1
Sharpness:
0
OK
Cancel

Please note that such access is one-time. Every time you call a locked function the application will request the password as long as locking is activated.



Unlocking

To deactivate locking press the **Admin** menu, in the appeared window, enter the password that you have set and press the **OK** button.



Chapter 9. Version Upgrade

inPhoto ID SLR developers regularly add new options to the application, optimize the current features and fix the bugs identified.

For keeping the user always updated on a new version release, the application has a feature of checking for updates. The check can be set to the automatic or to the manual mode. In the automatic mode, the application checks availability of a new version itself and informs on it during the next start-up.

In the manual mode, the user can check for availability of a new version at his/her convenience.

It should be reminded that all the custom settings of the user from the previous version remain unchanged when installing updates.

So, let's take at look at how to check and install updates in each of the modes:

Automatic Mode

Manual Mode

Updates Installation

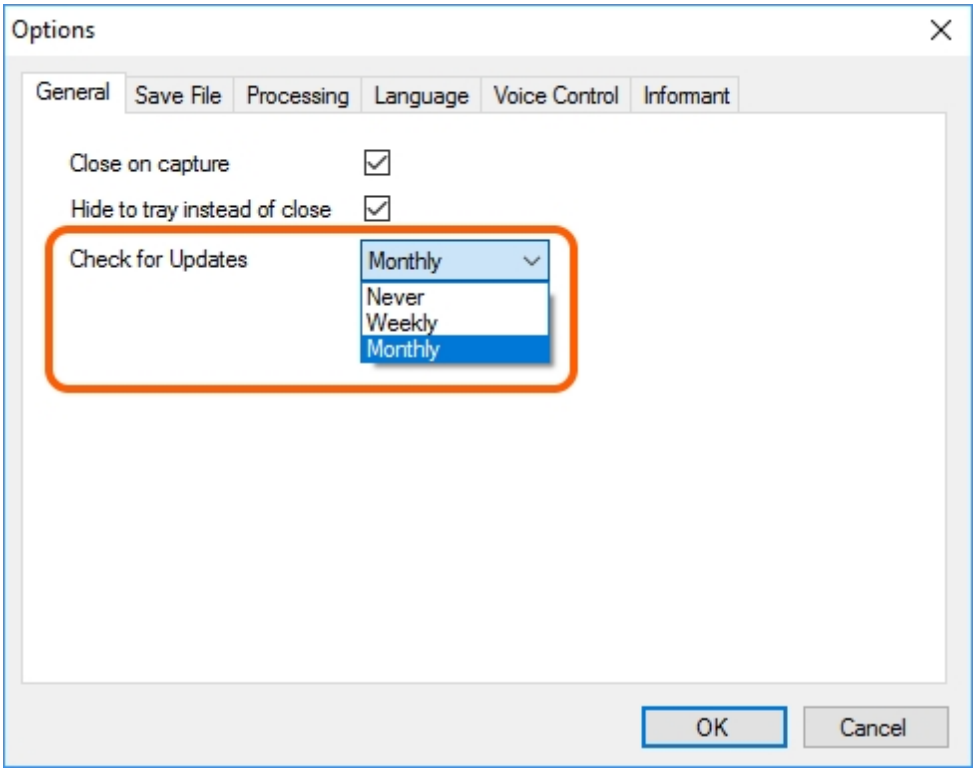
Automatic Mode

To enable the updates check in the automatic mode, enter the **File** menu > **Options** > **General** tab. Then, select the required value for the **Check for Updates** setting.

If you choose the **Weekly** value, the application will check for availability of a new version each week, if **Monthly** is selected — each month.

If you set the **Never** value the application will neither check for updates nor inform the user on release of a new version.

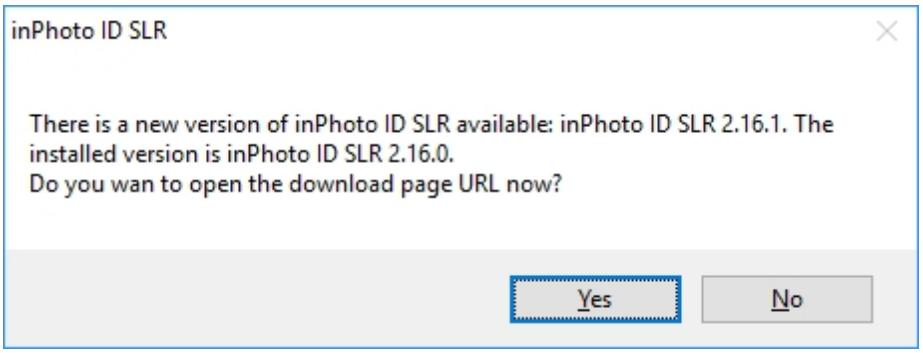
This option may be useful if the user prefers to check for updates manually.



After having set the required value, close the **Options** window with the **OK** button.

If you set **Weekly** or **Monthly**, the program will check for updates after clicking **OK**.

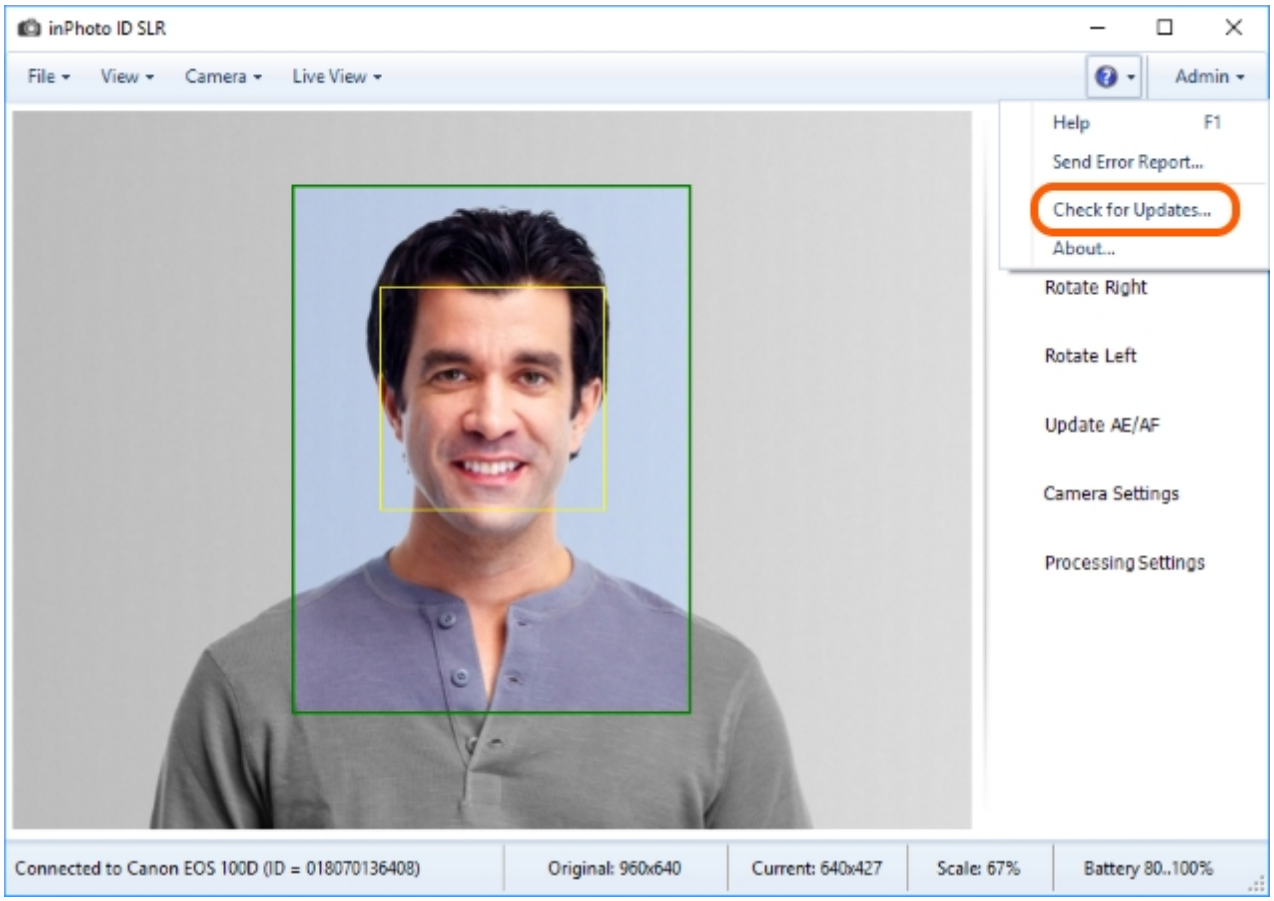
If any updates are available, the program will inform you about it with the following message.



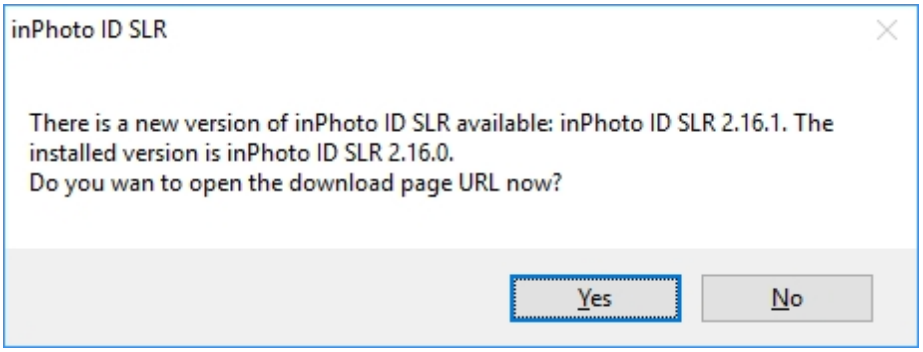
To update version of the program, click the **Yes** button in the message. You can read more details on downloading new version in the **Updates Installation** chapter. To continue working with the current version, click the **No** button in the message.

Manual Mode

You can manually check for updates using the **Check for Updates** command located in the **Help** menu.



If a new version has been released, as in the automatic mode, the application will inform you about it with the following message.

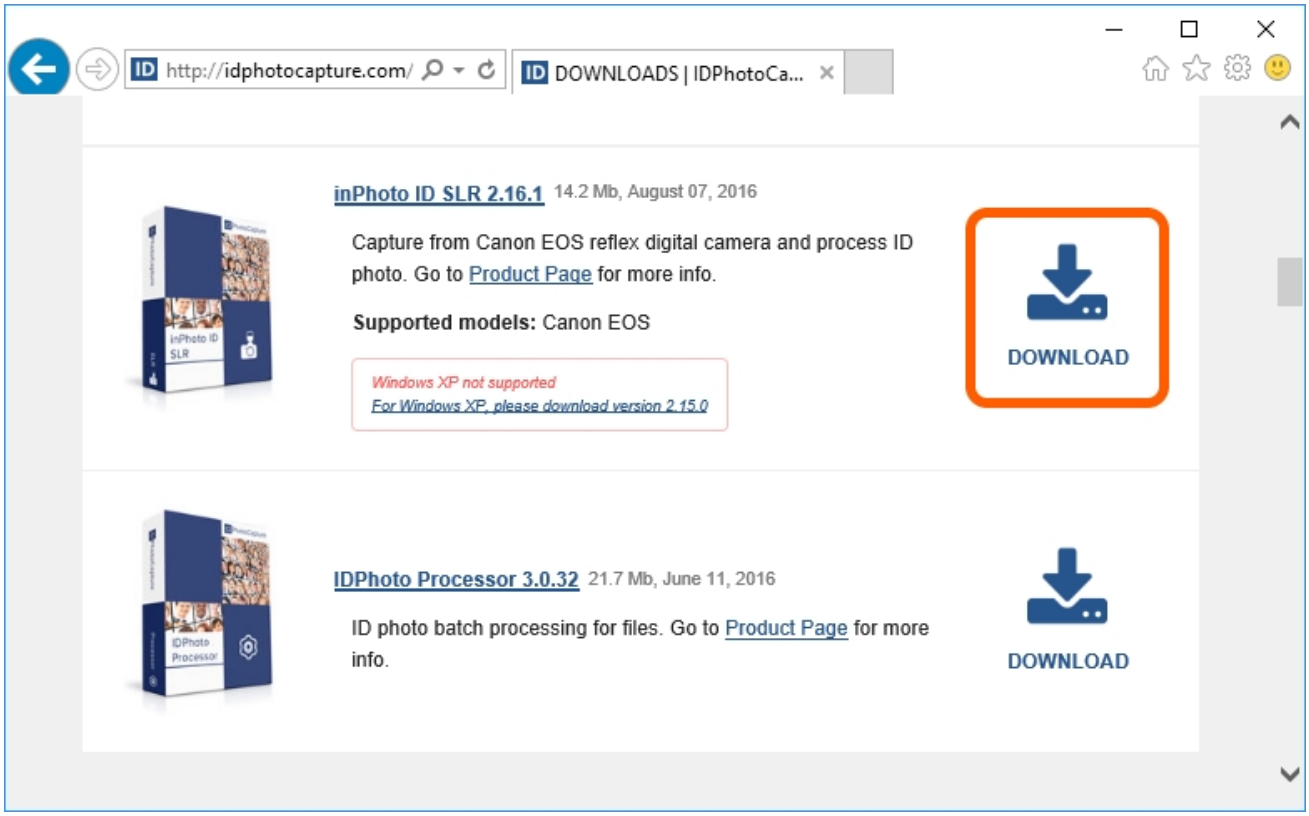


To update version of the program, click the **Yes** button in the message. You can read more details on downloading new version in the **Updates Installation** chapter. To continue to working with the current version, click the **No** button in the message.

If updates have not been released, the application will inform you that you have the latest version.

Updates Installation

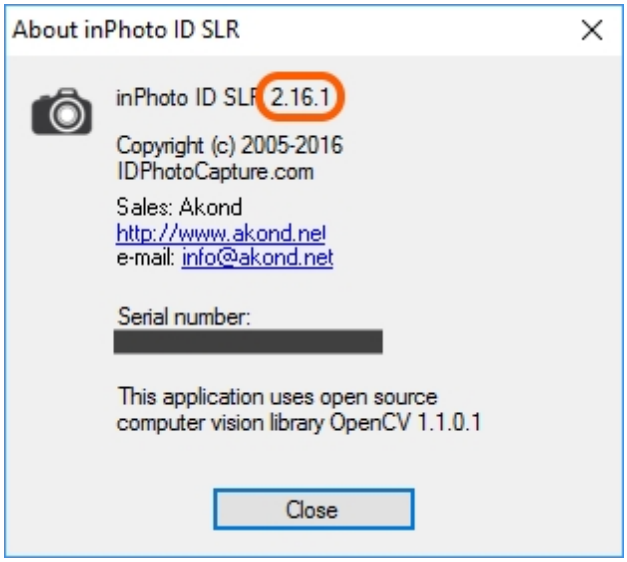
If the application, in the manual or in the auto mode, has announced a new version release and you have pressed the **Yes** button to install it, the application passes you to the developer's website where the link for downloading the new version of the application is available.



Download and install the application.

*More details on installing **inPhoto ID SLR** may be found in the **Installation** chapter.*

You can see that the version of the application has been upgraded in the **About inPhoto ID SLR** information window which is called up from the **Help** menu > **About**.



If you have any questions or suggestions regarding the work of the application, please write us. Please refer to the **Support** chapter to find out how to do it.

Chapter 10. Support

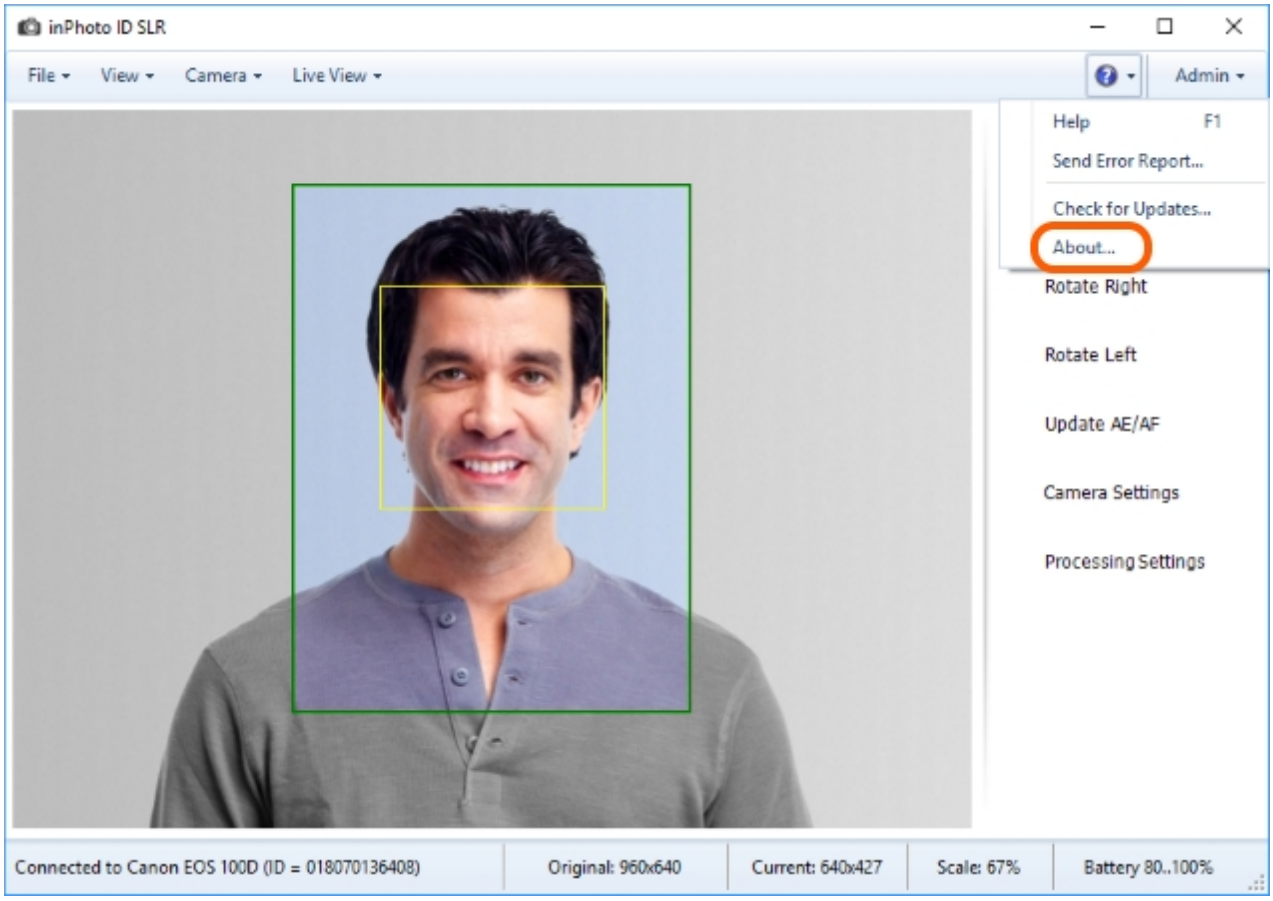
This chapter will describe where the main data on the application are located, how to call up background information, how to send an error report to the developers, how to create a request in the users support system and where to find additional information on the work with **inPhoto ID SLR** and with our other products.

The contents of the chapter are as follows:

- About the Application
- Help Topics
- Send an error report
- Contact technical support service
- Useful Information

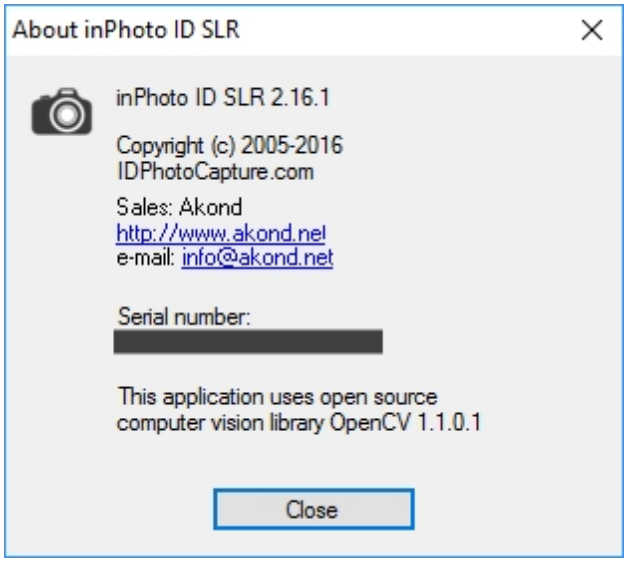
About the Application

The basic information on the **inPhoto ID SLR** is located in the main menu > **About**.



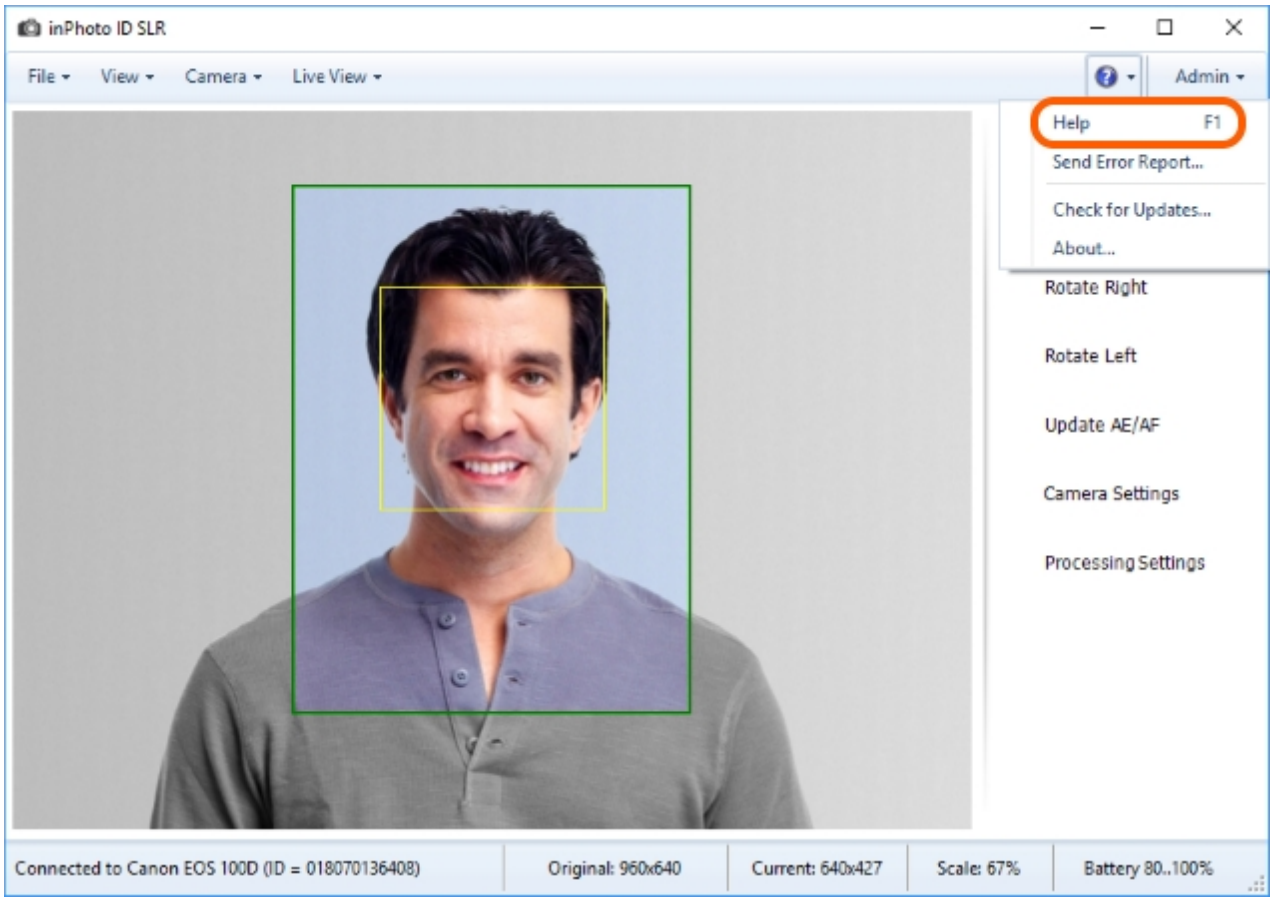
The **About inPhoto ID SLR** window indicates:

- the title of the application
- its current version
- the name of the development company
- the company's website and email address
- the serial number of the product



Help

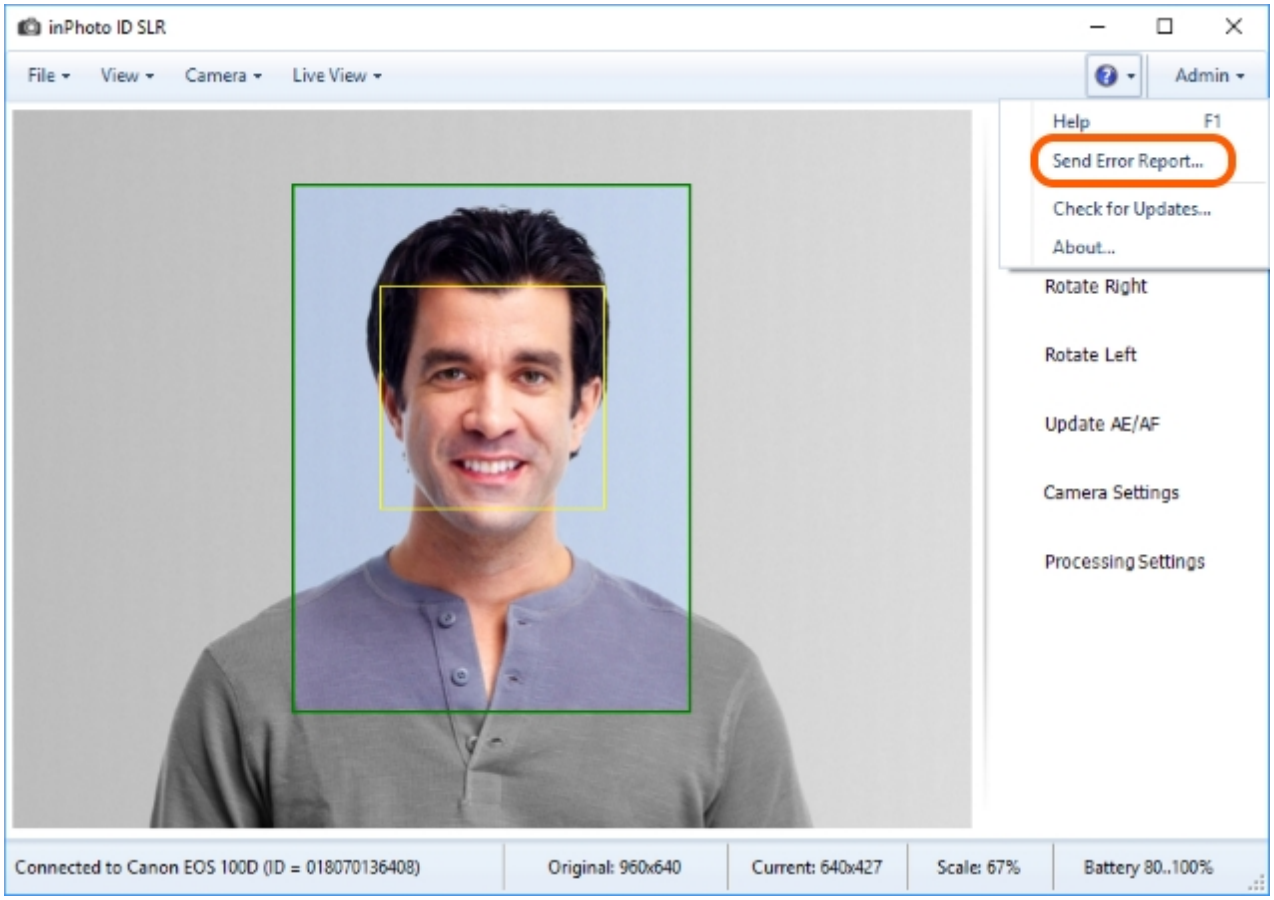
To get the necessary information at any moment of working with **inPhoto ID SLR**, use the help guide. The help guide is located in the main menu > **Help**.



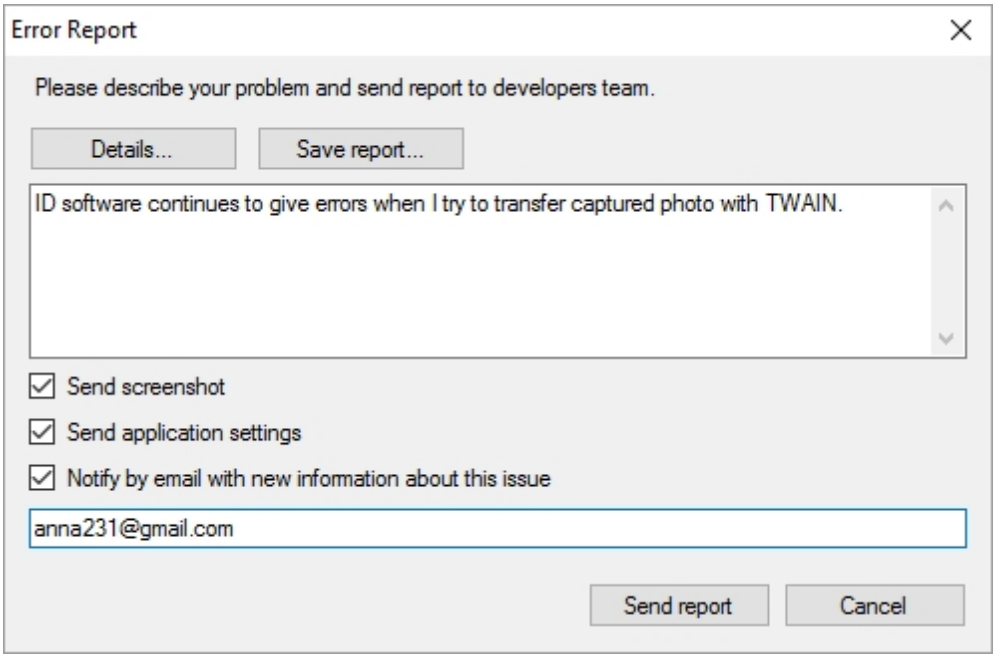
Send an Error Report

If you experience a problem with **inPhoto ID SLR**, you can send a report to the developers. The report contains the data in the application state it was when there was the problem.

To send an error report to the developers, please access main menu > **Send Error Report**.



In the opened form, please fill in the fields. They are described further.



The **Details** button opens a log file with the description of the application status at the moment of the error and the preceding events list.

The **Save Report** button allows you to save the report sending data in the text format.

The **Add comment** field is designated for describing the error. For example, on the picture above, it contains the comment **"ID software continues to give errors when I try to transfer captured photo with TWAIN.".** Please note that the more detailed description is provided in the field, the quicker the developers are able to correct the error.

Send screenshot allows to take a screen shot and attach it to the report.

Send application settings sends application setting status together with the report.

If the option **Notify by email with new information about this issue** is enabled, the information regarding the error will be received onto the specified e-mail address. Please indicate your e-mail address in the report, this will help the developers to better and quicker solve problems that may arise. The address may be indicated in the field below.

After the problem has been described and the required options have been set, please press the **Send Report** button and the report will be sent.

Contact Technical Support Service

We provide users of all our products with full technical support.

You may ask a question or write about an issue using one of the following options:

- Create a request in the support support service: **http://idphotocapture.com/support/**. This way is preferable as the request system allows to save, organize and easily track data. The algorithm of creating a request in the support system is described below in **Creating a request in the support system** section.
- Via the feedback form on our website: **http://idphotocapture.com/supports/**
- Write an e-mail to the developers to the address: **support@idphotocapture.com**

The contents of the section are as follows:

Creating a request in the support system

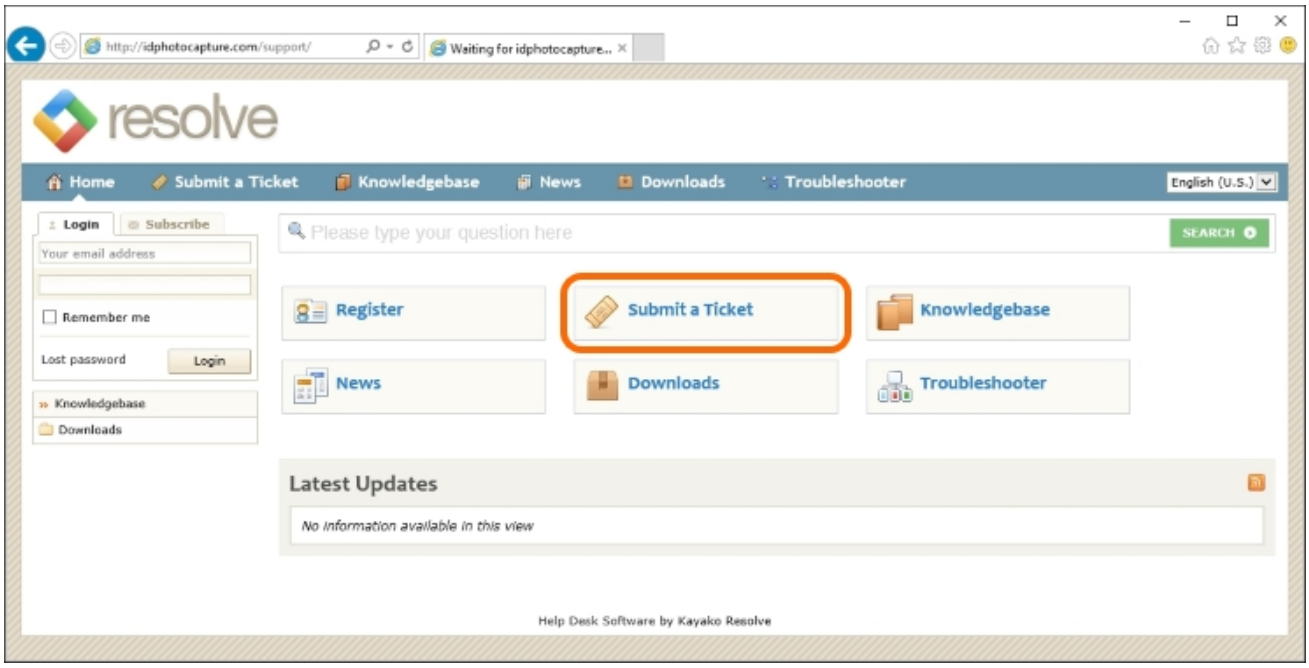
Registration in the support system

Requests created

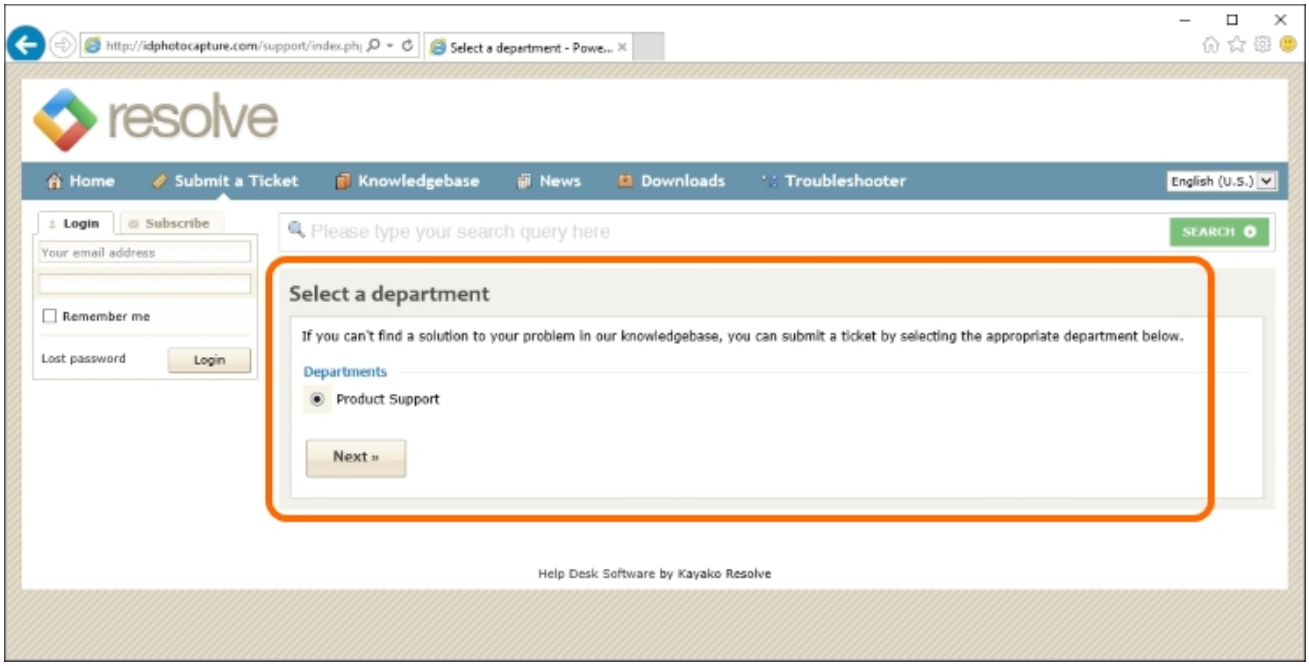
Creating a Request in the Support System

To create a request, please click the link: http://idphotocapture.com/support/

Then select the **Submit a ticket** button.



At this stage, check the **Product Support** box and press **Next**.



In the appeared form, fill in the fields with your data. The data on the picture are given by way of example.

Full Name — enter your name

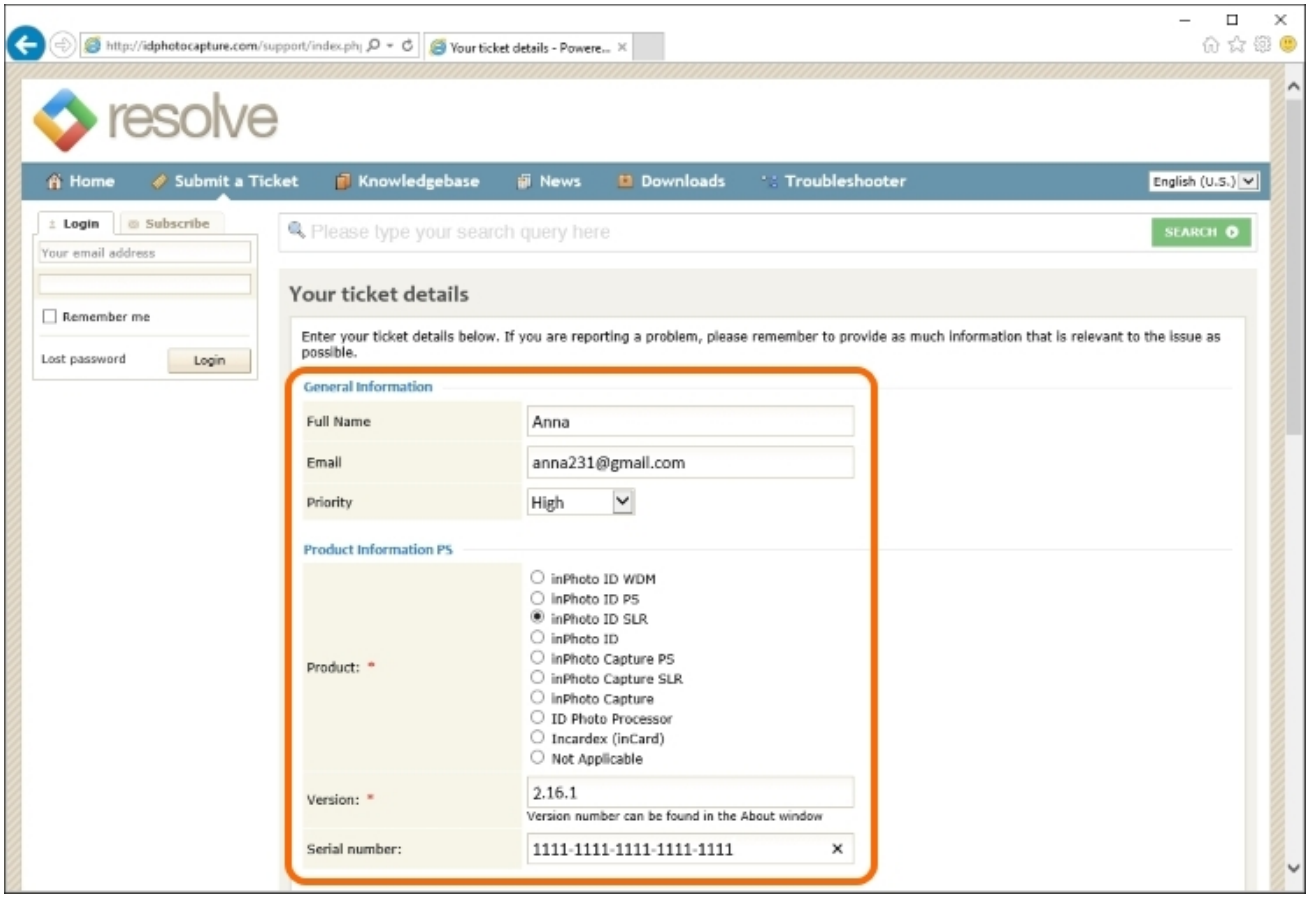
Email — enter the e-mail address to which you wish to receive information on this request

Priority — select request priority level

Product — select the name of the product in question.

Version — indicate the product version

Serial Number — enter the serial number of the product. It should be recalled that the Serial Number is indicated in the application information window located in main menu > **About**.



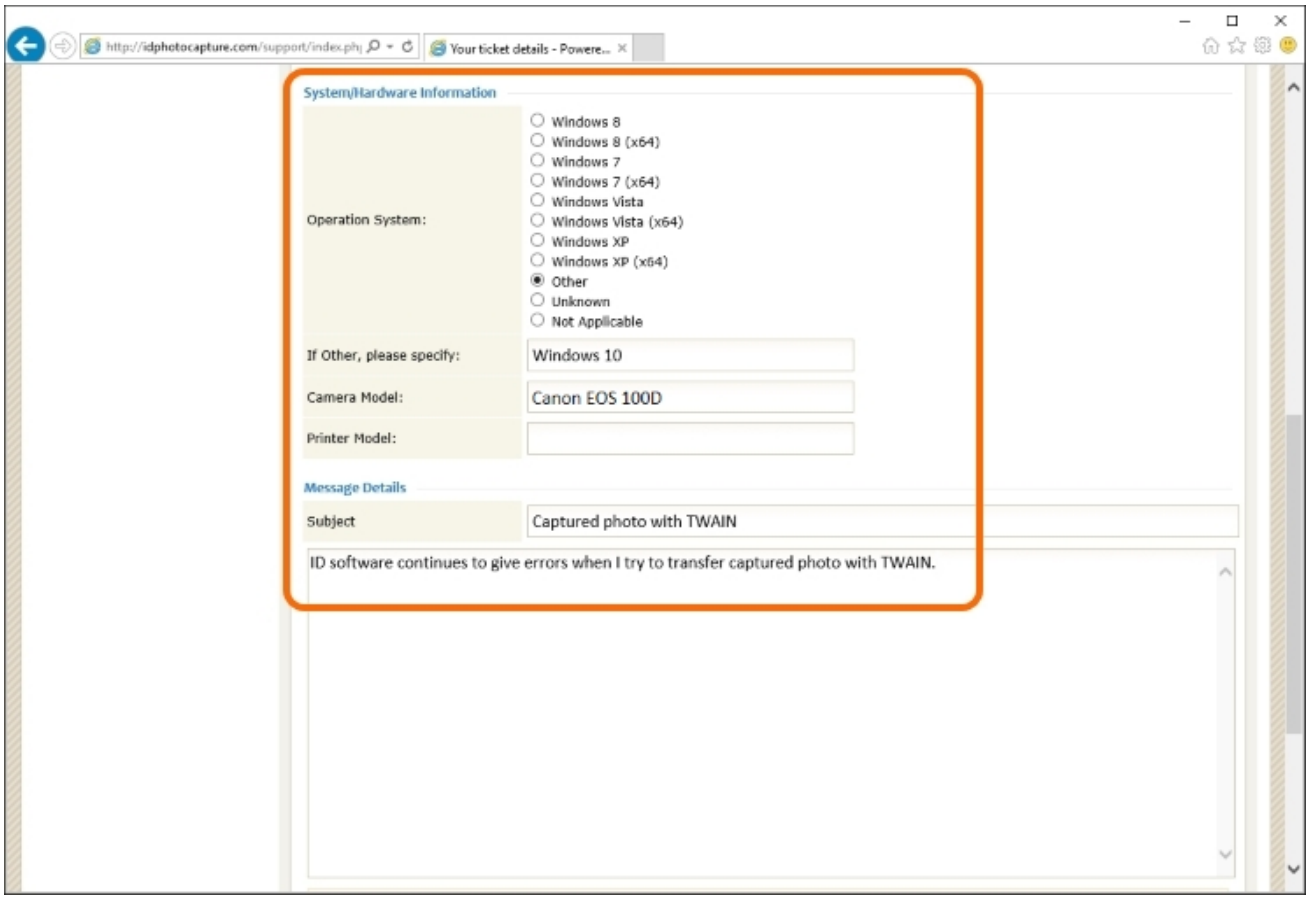
Operation System — choose the operation system of the PC **inPhoto ID SLR** is installed on.

If Other, please specify — if your operation system is not in the list provided, specify its name in this field. Also you need to indicate here other technical data which developers may need to answer your request.

Camera Model - please state the model of the camera you have used with **inPhoto ID SLR**.

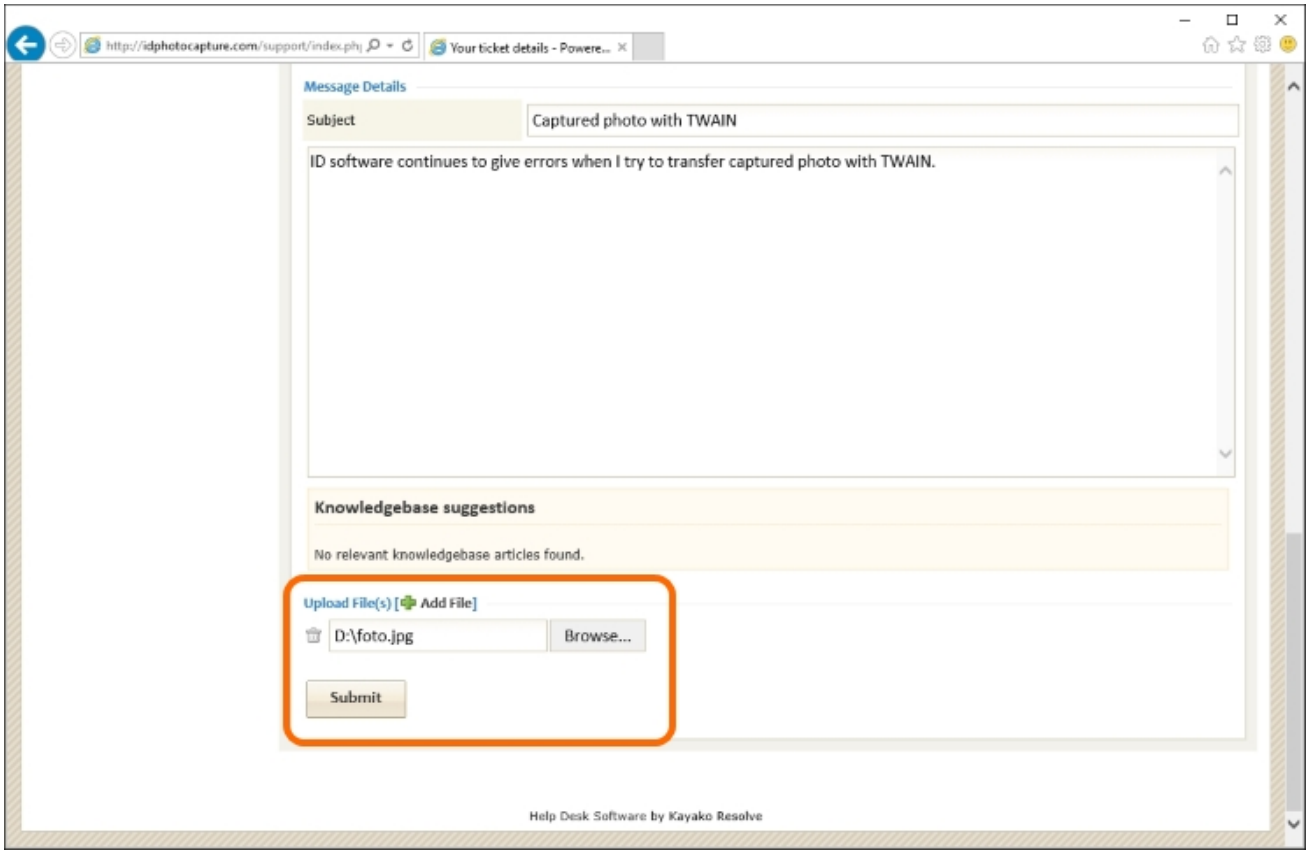
Printer Model - please state the model of the printer you have used with **inPhoto ID SLR**.

Subject — indicate the request subject. In the text field below, please provide a detailed description of the question or the issue.

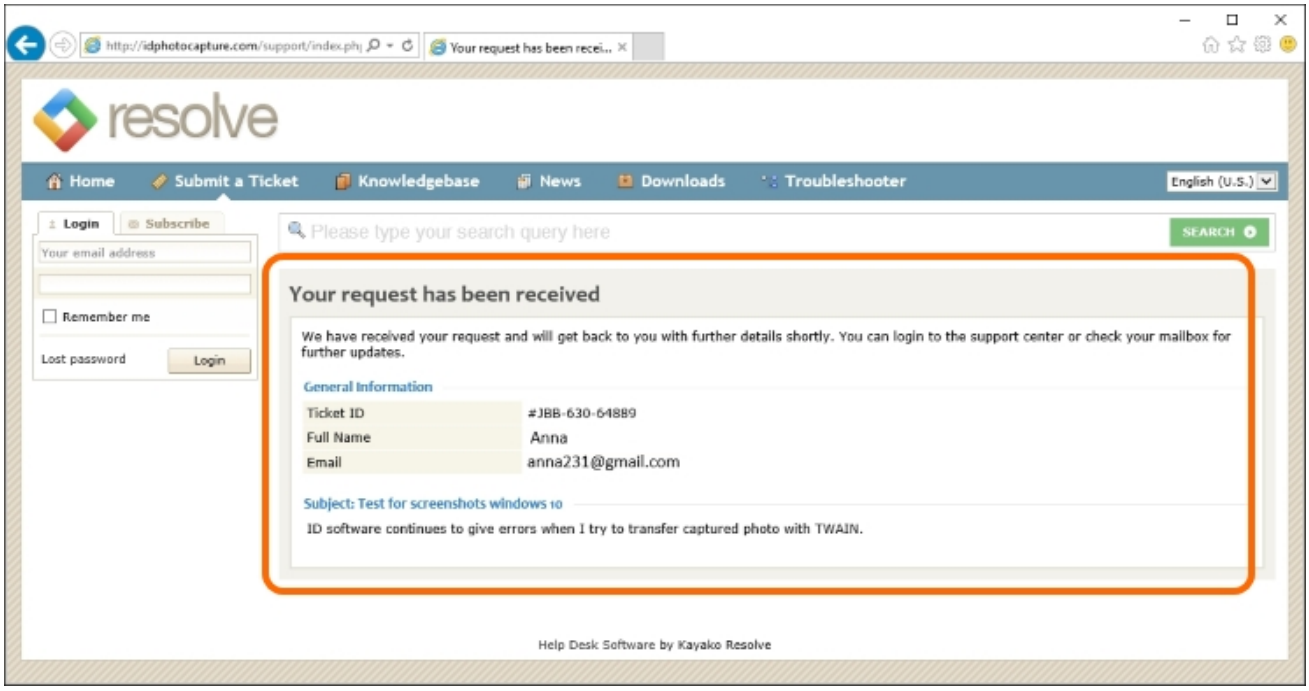


Add File — allows to attach screen shots or other files to the request

After having completed the input, please check the data correctness and press **Submit**.

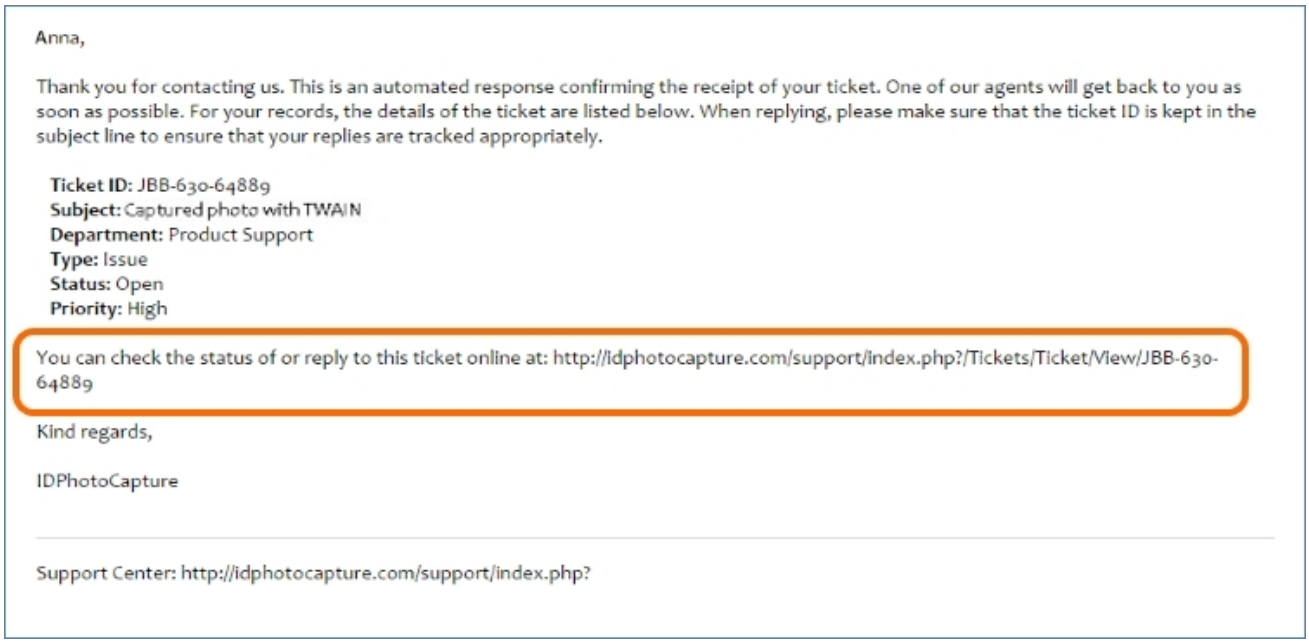


After that, the request will be accepted.



You will receive an e-mail onto the specified address, that is to confirm registration of your request. The letter will contain a link, click it and you'll be able to view the request status.

Please note that to access the request information, you need to be registered in the support system. The registration procedure is described in more details below in the **Registration in the support system**.



Anna,

Thank you for contacting us. This is an automated response confirming the receipt of your ticket. One of our agents will get back to you as soon as possible. For your records, the details of the ticket are listed below. When replying, please make sure that the ticket ID is kept in the subject line to ensure that your replies are tracked appropriately.

Ticket ID: JBB-630-64889
Subject: Captured photo with TWAIN
Department: Product Support
Type: Issue
Status: Open
Priority: High

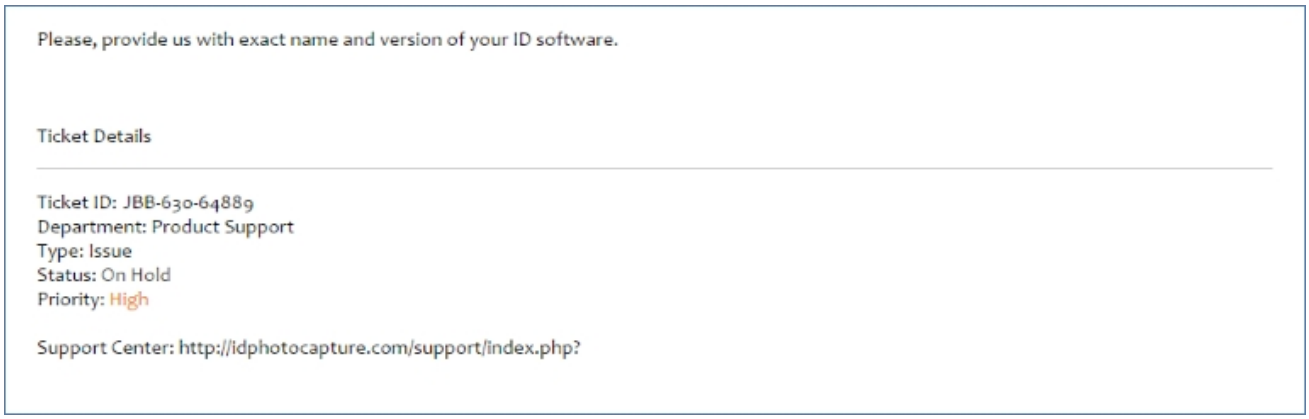
You can check the status of or reply to this ticket online at: http://idphotocapture.com/support/index.php?/Tickets/Ticket/View/JBB-630-64889

Kind regards,

IDPhotoCapture

Support Center: http://idphotocapture.com/support/index.php?

After you have received a letter that your request has been received, please wait for response from our support service specialists.



Please, provide us with exact name and version of your ID software.

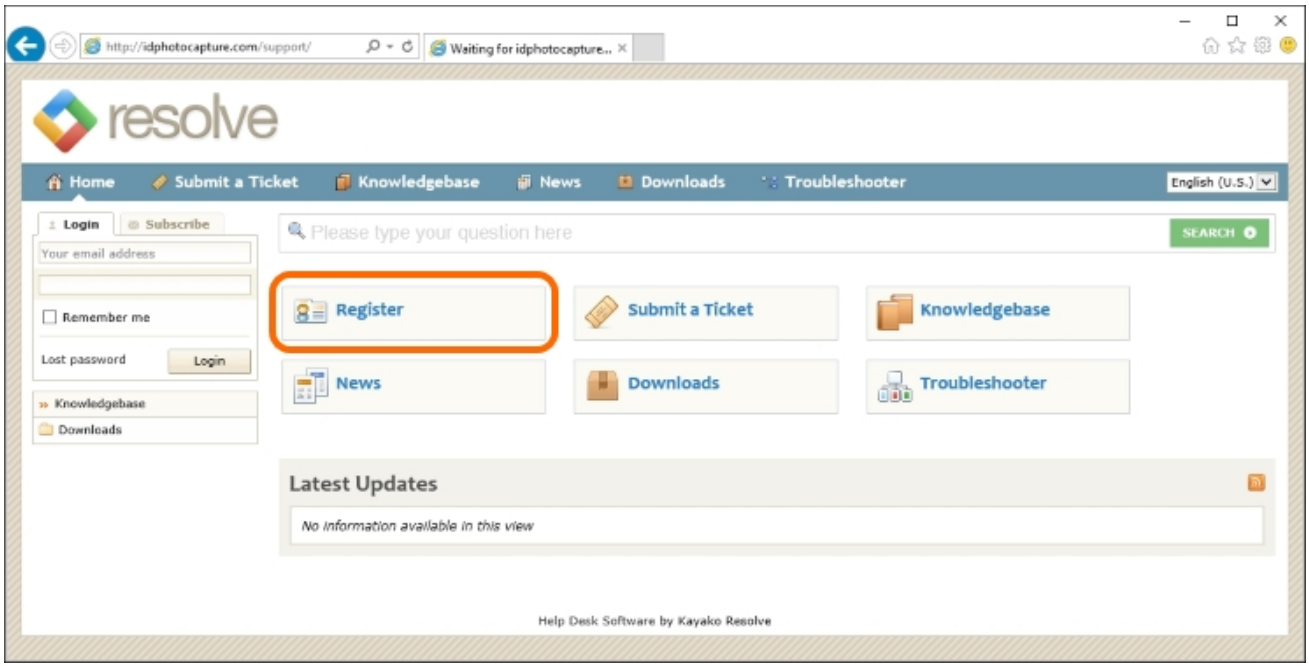
Ticket Details

Ticket ID: JBB-630-64889
Department: Product Support
Type: Issue
Status: On Hold
Priority: High

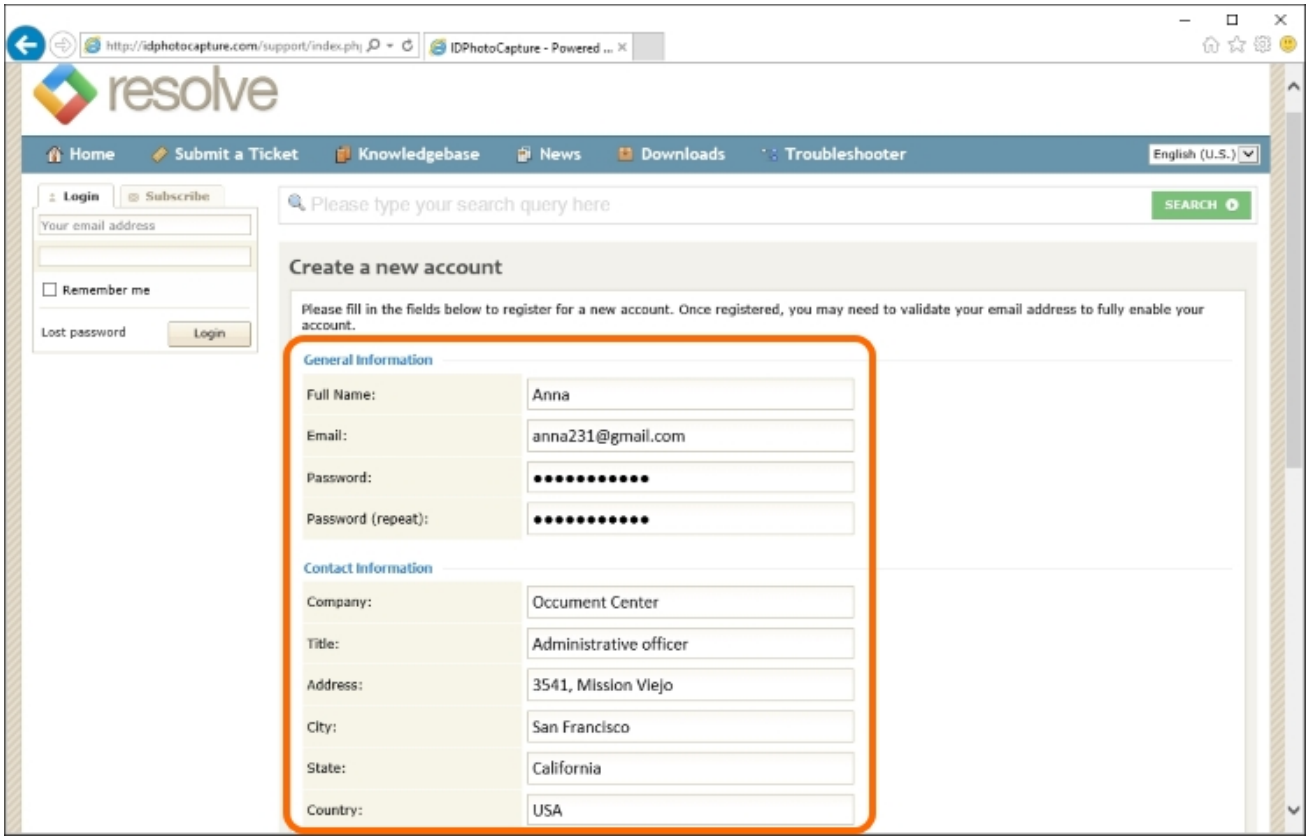
Support Center: http://idphotocapture.com/support/index.php?

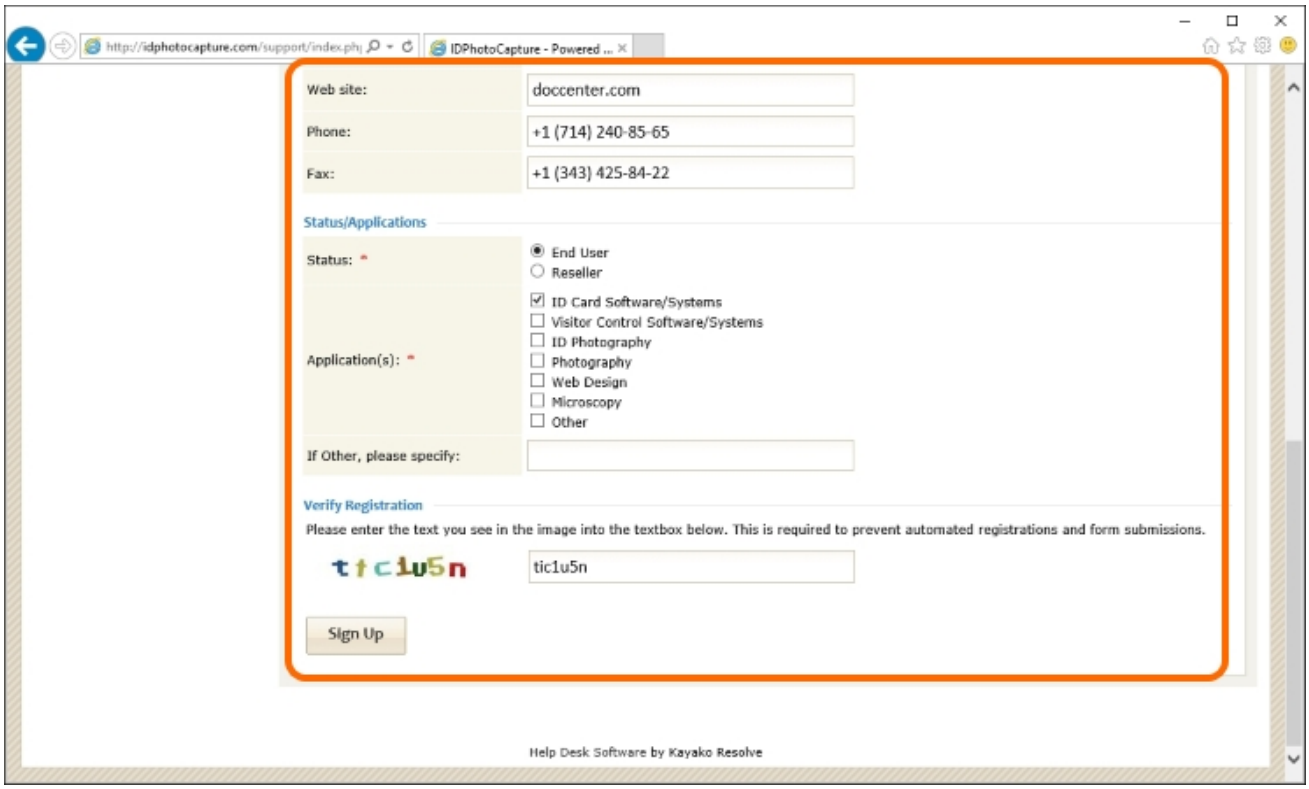
Registration in the Support System

To register in the support system, please click the link http://idphotocapture.com/support and press the **Register** button.

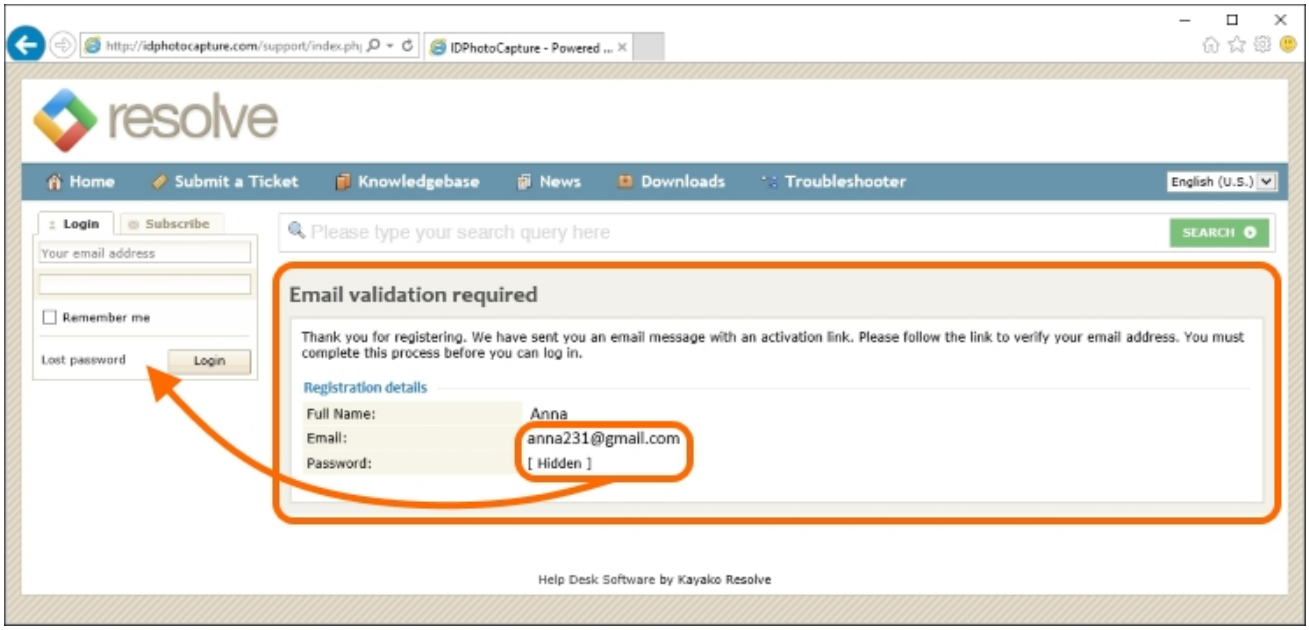


In the appeared registration form, fill in the fields with your data. The data on the picture is given by way of example. After having completed the input, please check the data correctness and press **Sign Up**.

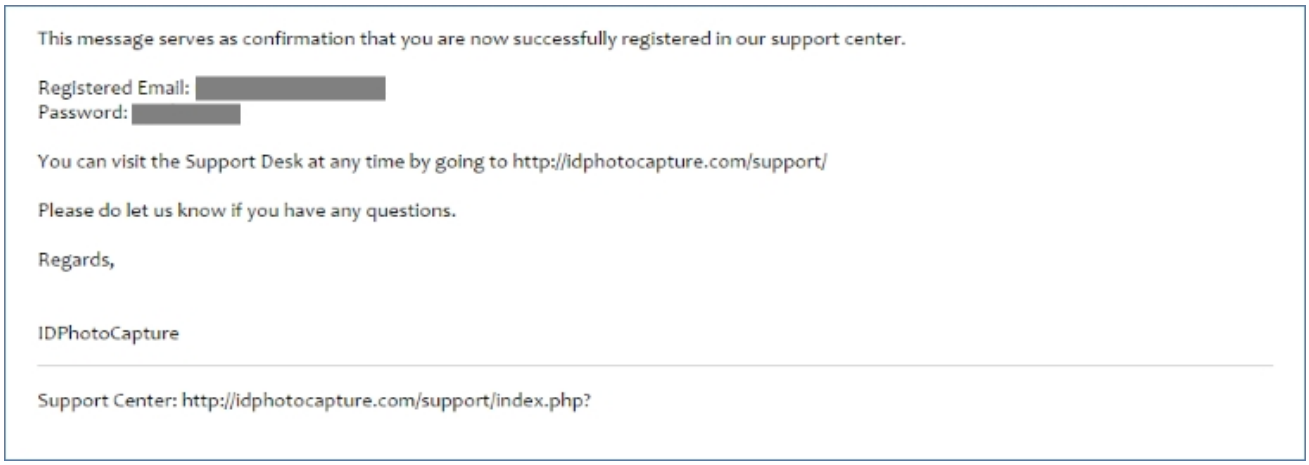



http://idphotocapture.com/support/index.php
IDPhotoCapture - Powered ...
Web site:
doccenter.com
Phone:
+1 (714) 240-85-65
Fax:
+1 (343) 425-84-22
Status/Applications
Status: *
End User
Reseller
Application(s): *
ID Card Software/Systems
Visitor Control Software/Systems
ID Photography
Photography
Web Design
Microscopy
Other
If Other, please specify:
Verify Registration
Please enter the text you see in the image into the textbox below. This is required to prevent automated registrations and form submissions.
tic1u5n
Sign Up
Help Desk Software by Kayako Resolve

The registration is successfully completed. Then, to enter the support service system, please enter your e-mail address and password in the login form, then press **Login**.



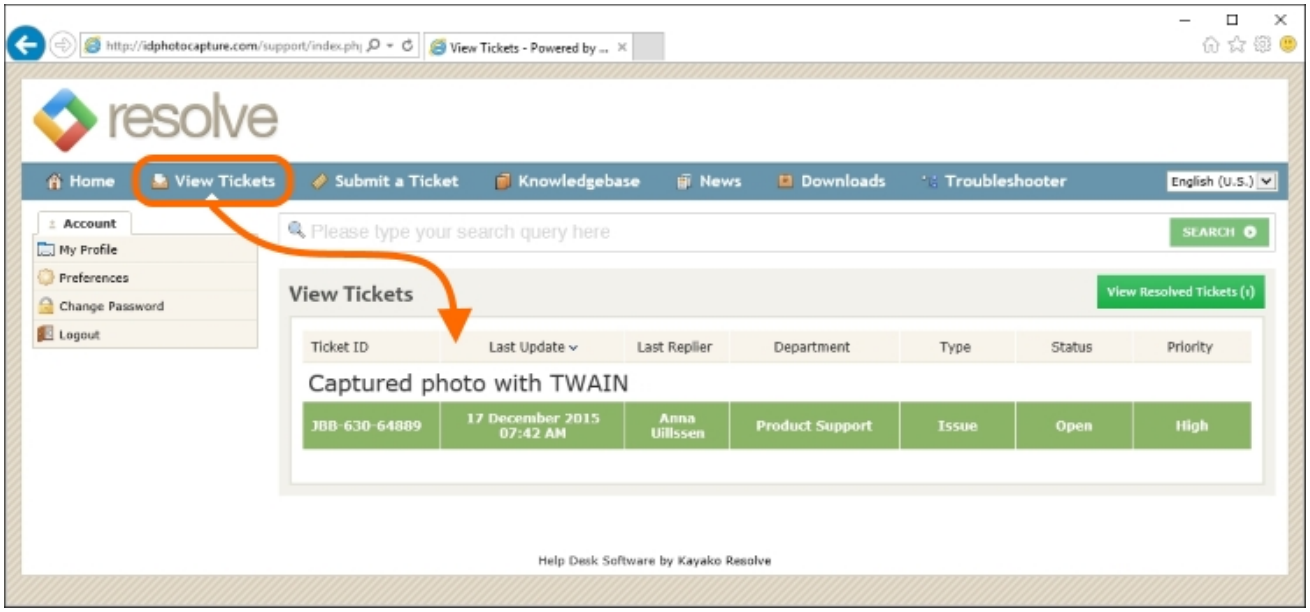
After that, a message confirming your signing up will be sent to the specified e-mail address.



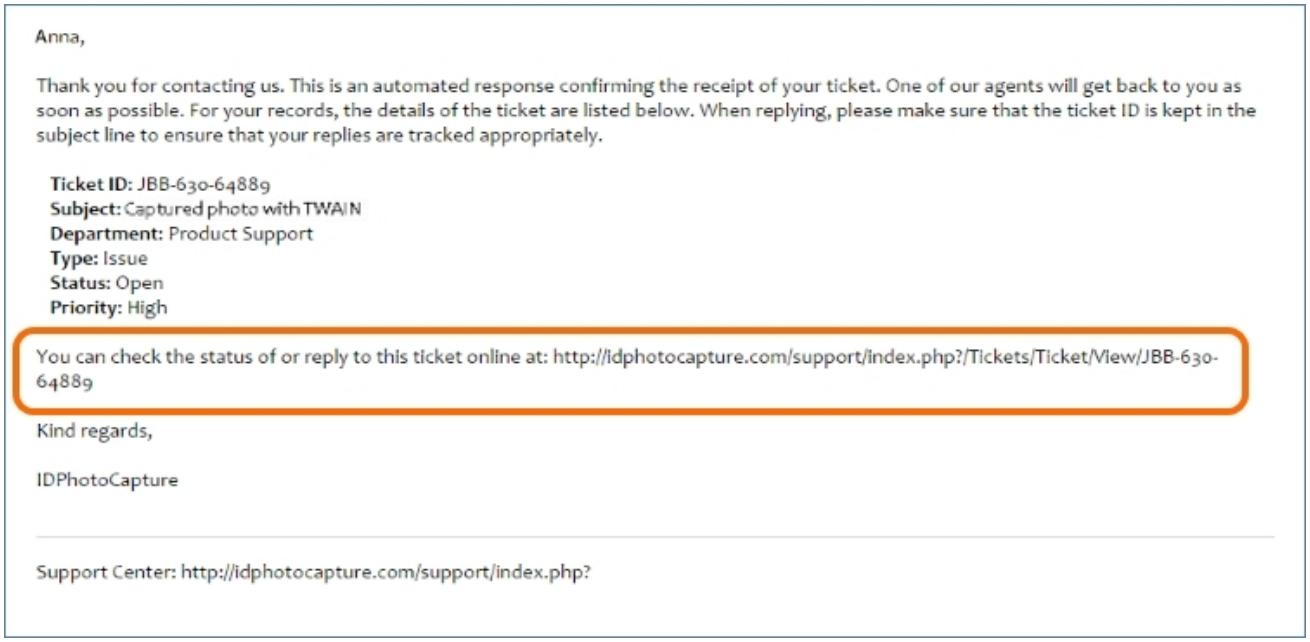
Requests Created

To access request information, you need to be registered in the support system.

To view, edit or check status of the request created, enter the system with **your login and password**. Then open the **View Tickets** section containing all data on requests.

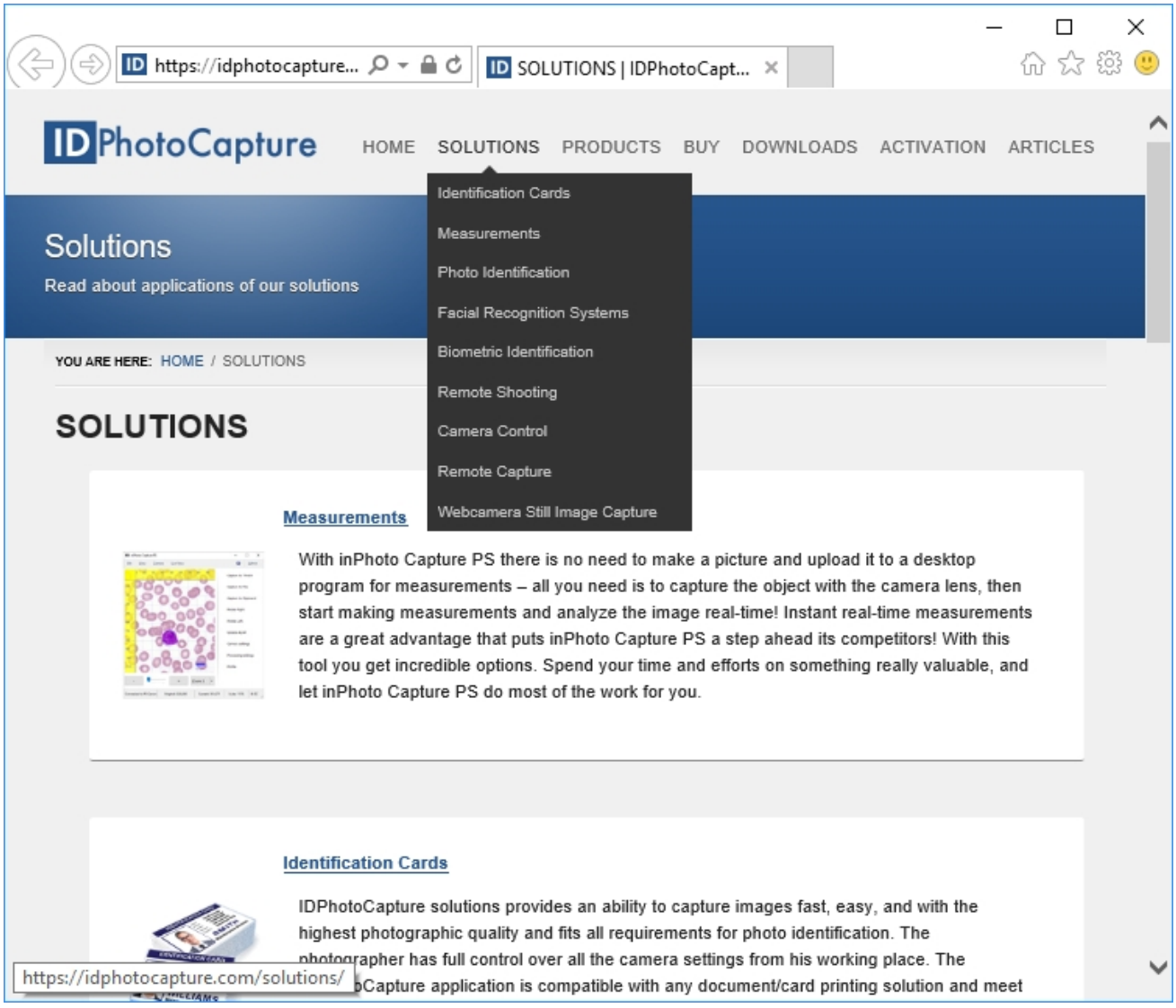


You can also get access to a request via the link from the e-mail which the system sends to your e-mail address right after creating a request.



Useful Information

Additional information that can be useful when working with identification photos as well as answers to frequently asked questions can be found on our website in the **Solutions** menu by following this link: http://idphotocapture.com/solutions/.



We recommend the users of **inPhoto ID SLR** to start from the following topics:

Identification card

Describes the systems of identification card creation.

Photo identification

Gives examples of the identification cards requiring identification photos. Also the main requirements to the photos for documents are provided.

Facial Recognition Systems

Describes the way of facial recognition and the criteria that an image must meet in order to you receive high-quality processing results.

Biometric Identification

This topic is about biometric methods of personal identification in images and video. Also, the examples of tasks that may be solved with such an identification are provided.

Remote Shooting

The article describes how the Remote Shooting process is organized. In addition, you can read here about application of the Remote Shooting option in such cases as Identification Photo, Studio Photography, Microscopy, Hard-to-access places, Light-box Shooting, Jewelry Photography, Astrophotography and Copy Stand and Macro Imaging.

Camera Control

This article describes remote control of a digital camera from a PC. We also describe here such camera options as Shooting mode, Image format, Zoom, White balance, ISO value, Focus mode, Flash mode and Flash compensation.

Conclusion

We hope that working with **inPhoto ID SLR** will be comfortable and productive for you.

Please contacts us if:

- you experience problems with the **inPhoto ID SLR** operation
- you have questions, comments or suggestions in the process of using the application
- you need advice on choosing a software and a hardware for working with images

We are always here to help you.

IDPhotoCapture.com

e-mail: info@idphotocapture.com

http://idphotocapture.com