



Operating Document Authenticity Verification Device Regula 4205M

with Regula Forensic Studio

RFS Version 5.6

User Guide

RGVI.141.00.00 SU

REGULA

2026

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2 GENERAL INFORMATION

Document authenticity verification device Regula 4205M is intended for advanced authenticity verification of passports, identity cards (hereinafter – ID) and other identity documents, visas and entry stamps, banknotes, driver's licenses, vehicle documents and other security documents with means of protection against forgery.

The device is operated via the **Regula 4205M** software. Autonomous device operation is impossible.

3 SOFTWARE INSTALLATION AND UPDATES

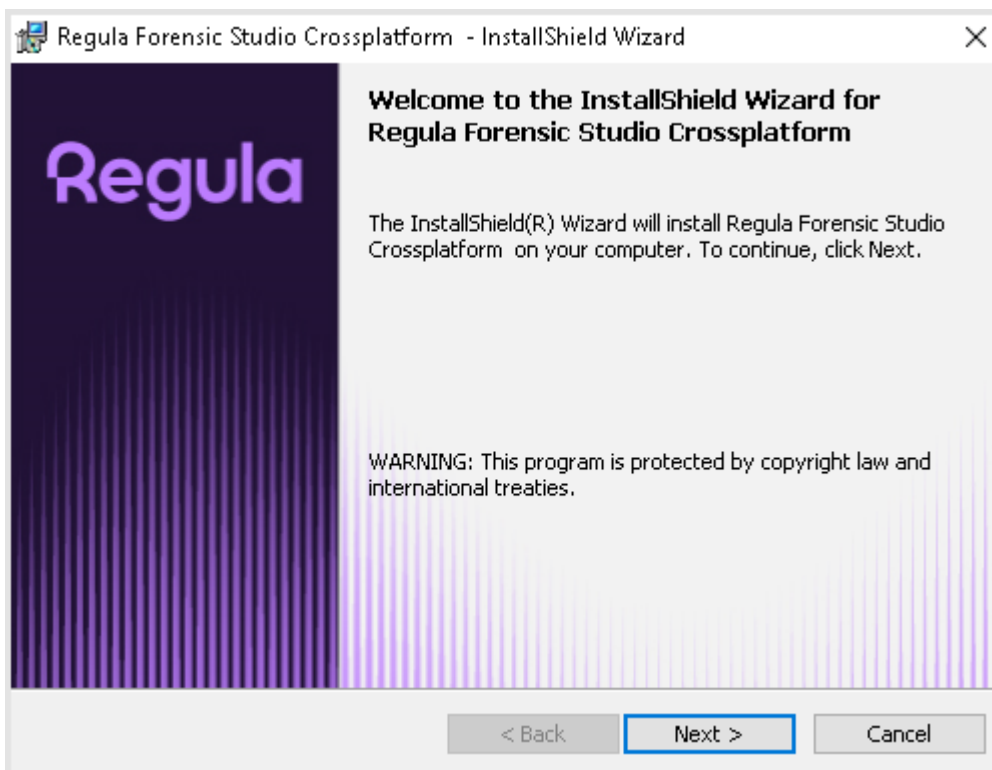
The device is supplied with Regula 4205M software preinstalled. However, if necessary, the software can be downloaded and installed manually.

To download the Regula 4205M device software, follow these steps:

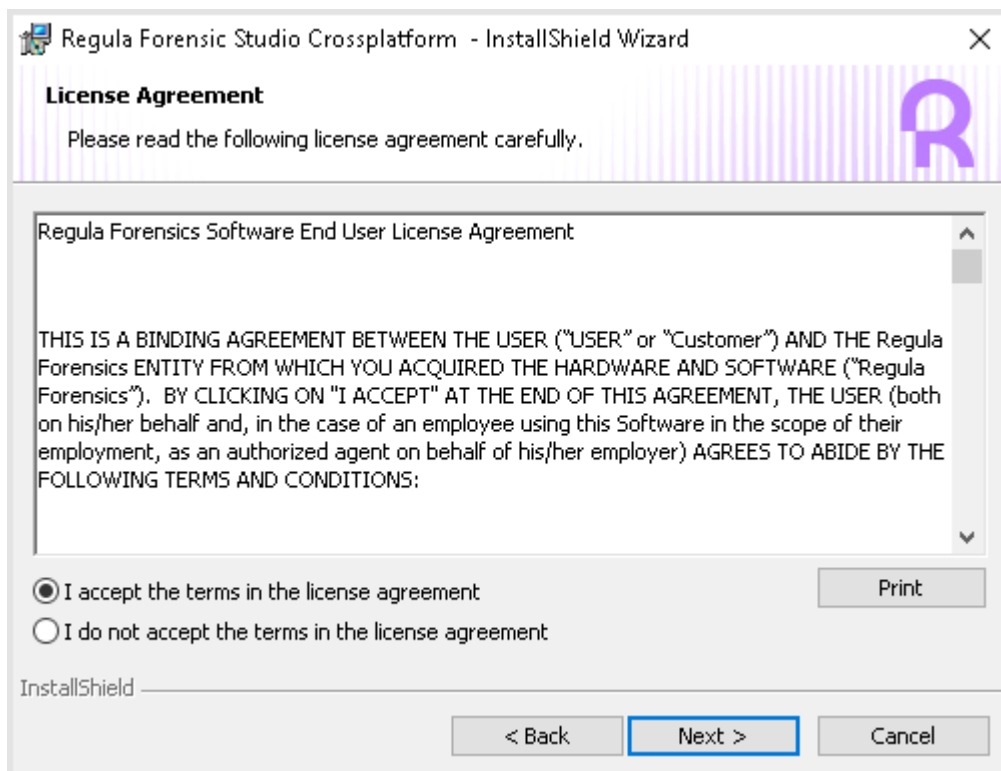
1. Follow the link and download **Regula Downloads Manager**:
<https://downloads.regulaforensics.com/work/utis/RegulaDownloadsManager.exe>
2. Launch **Regula Downloads Manager** and select **Regula 4205M** for download on the **Other** tab. Specify the folder where the software should be downloaded.
3. Start the download by clicking **Download** or **Download and Run**.

To install software, perform the following steps:

1. **Start**
Start the **Regula 4205M.exe** installer.
2. **Installer Welcome Message**
Click the **Next** button

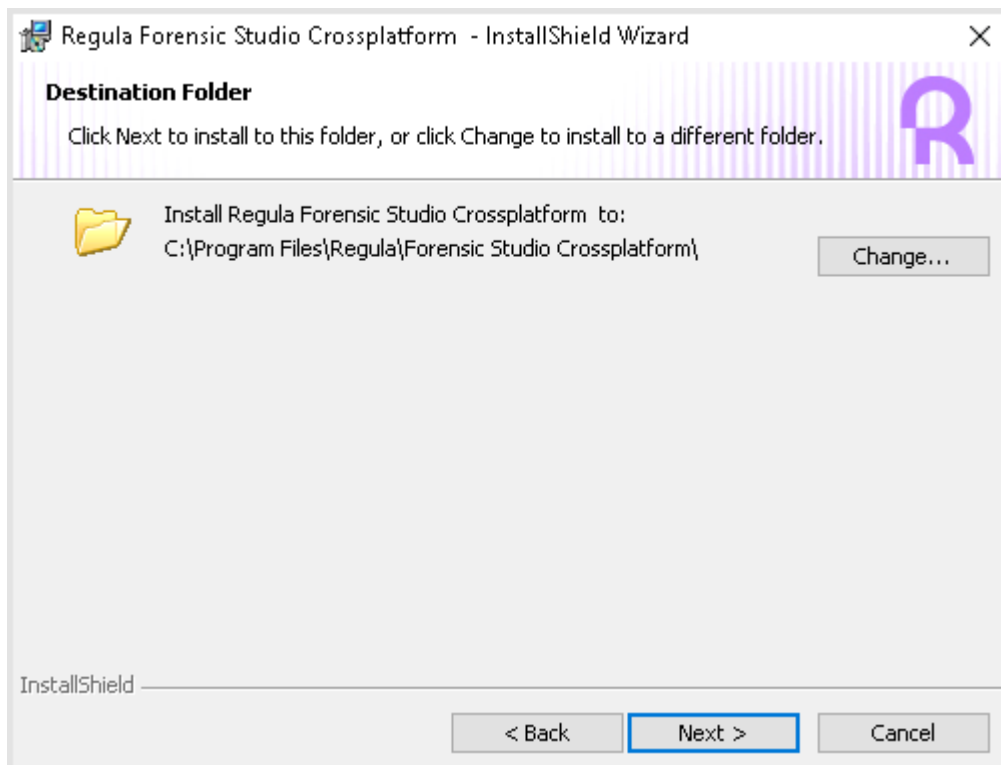


3. **License Agreement**
Review the license agreement and click **Next** to continue the installation.



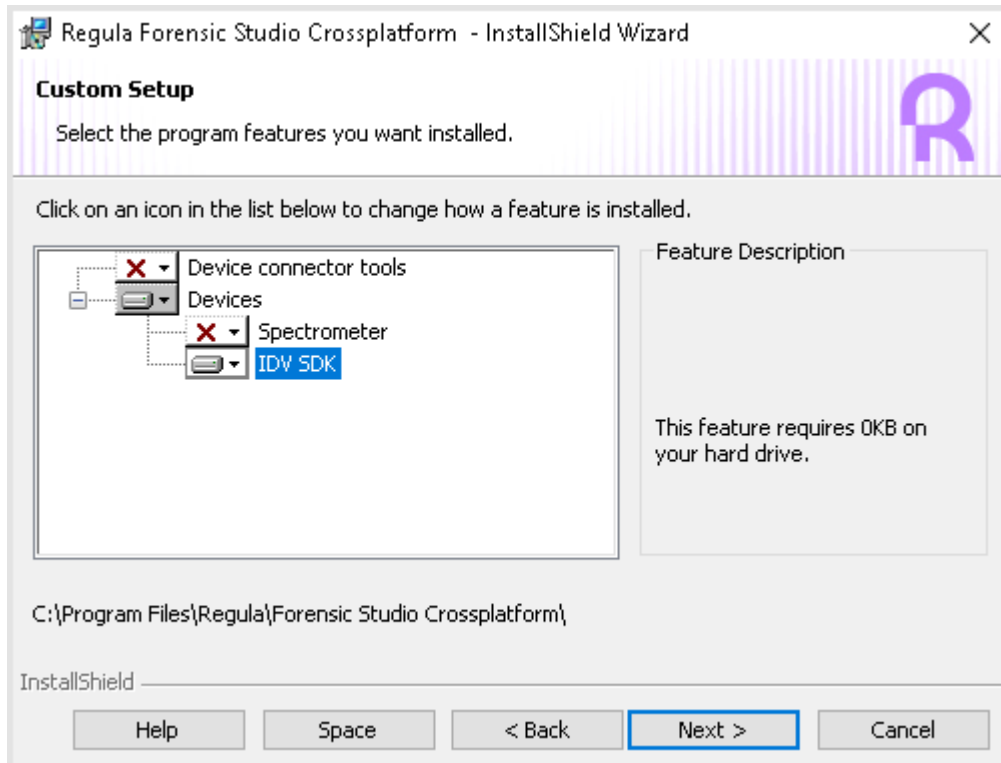
4. Destination Folder

Specify the destination folder where the application software will be installed. To do this, click **Change** and select the folder path. Then click **Next** to continue the installation.



5. Custom Setup

Disable the **Spectrometer** option and click **Next**.

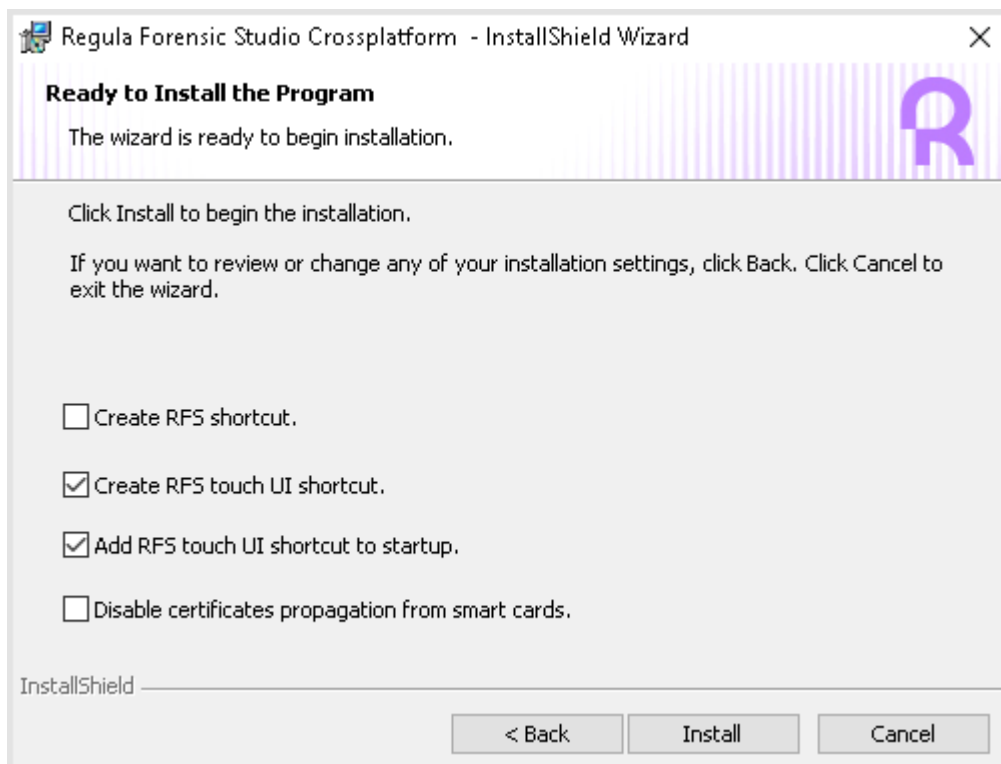


6. Ready to Install the Program

Select the following options:

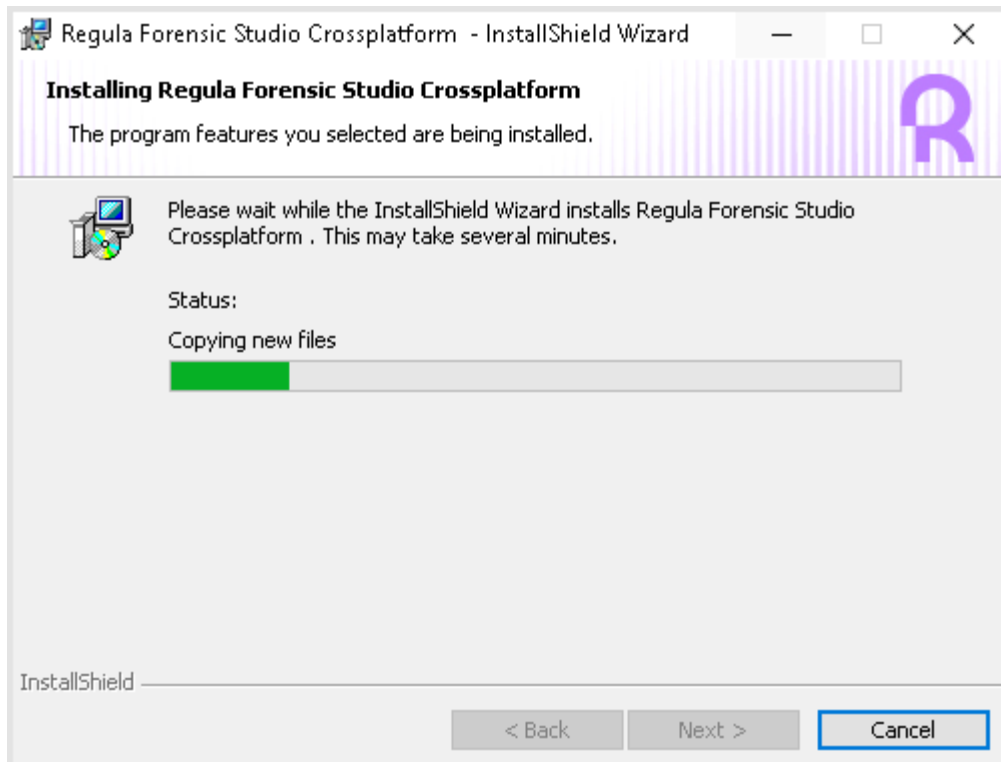
- Create RFS touch UI shortcut
- Add RFS touch UI shortcut to startup

Click **Install** to start installing the software. To review or change the installation settings, click **Back**. To exit the installation wizard, click **Cancel**.



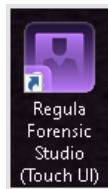
7. Installing

This step displays the application installation progress.



8. Completing the Installation

After program has been successfully installed, click **Finish** to exit the InstallShield Wizard.

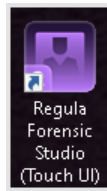


After installation, a shortcut bearing the name of the installed software will appear on the desktop and in the **Start** menu.

If the software needs to be reinstalled or updated, first uninstall **Regula 4205M** using the standard tools of the operating system, and then install the new software by following the procedure described above.

4 GETTING STARTED

Regula 4205M starts automatically when the operating system boots.



If the software does not start, use the shortcut on the desktop.

After startup, the software window will appear as follows:



5 WORKING WITH REGULA 4205M

Note. The screenshots in this manual are provided for reference and may differ slightly from the interface of your software version.



Functionally, the main program window is divided into several sections:

1 Controls

This panel contains the following controls:

- **Camera** – click to display the live video feed from the device camera.
- **MRZ** – click to read the machine-readable zone of the document.
- **Barcode** – click to read a barcode.
- **IPI** – click to visualize and examine invisible personal information and hidden images contained in document security graphics and produced using various technologies.
- **Scripts** – click to create a new image examination script using various actions. You can also run, edit, and delete scripts from the list.

	For detailed information and descriptions, see the Controls section below.
2 Settings and Shutting Down the Device	This panel provides access to the device Settings and includes the Exit button for ending operation and closing the software. For detailed information and descriptions, see the Settings and Shutting Down the Device sections below.
3 Main workspace	The central part of the window is occupied by the work area. It displays live video and/or images from the reference database, information about the active light source mode, the current date, time, and magnification. Other service information, such as the path where a captured image is saved, may also be displayed briefly.
4 Snapshot button	Click this button to capture an image and save it to the database. The path to the folder where captured images are stored can be specified under Settings > General > Image Directory.
5 Tools	This panel contains tools for working with the image transmitted by the camera. For a description of each tool, see the Tools section below.
6 Light Sources	This panel contains buttons for controlling the light sources. A list of the buttons and their functions is provided in the Light Sources section below.

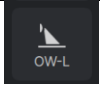
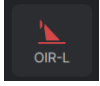
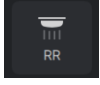
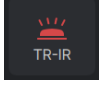
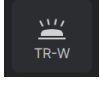
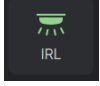
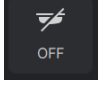
5.1 Controls

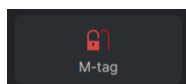
5.1.1 Camera

Camera  is used to display the live video feed from the device camera.

You can examine the document using various tools and light sources.

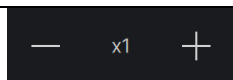
On the right side of the screen is a panel with buttons for controlling the light sources and other device functions. The buttons and their functions are listed in the table below:

	White
  	Note. The 313 nm and 254 nm ultraviolet light sources are available only when the shutter is fully closed.
 	Oblique white left/right
 	Oblique infrared 850 nm left/right
	Coaxial white
 	Incident infrared 870 $\pm$ 10 nm, 950 $\pm$ 10 nm
	Infrared 870 nm transmitted
	White transmitted
	530 nm spot
	Infrared and ultraviolet (870 + 365 nm)
	Button for turning off all light sources



M-tag

A toolbar is located at the bottom of the screen:

**Zoom out/in**

Allows you to zoom the image out or in by clicking the corresponding button  or .

Click the  button to open the **Zoom** value selection menu:



In the **Zoom** menu, special icons indicate the gradations recommended for working with the machine-readable zone reading tool for ID-2 and ID-3 format documents (passports, ID cards) and ID-1 (ID cards).

**Mirror**

Allows you to mirror the image horizontally.

**Fit to screen**

Allows you to display the image in full-screen mode.

**Reset**

Allows you to reset all focus and exposure values to their defaults.

**Focus**

Used to adjust image sharpness so that the selected object is displayed as clearly as possible.

**Exposure**

Used to adjust the image display brightness.

**Zoom**

Used for finer adjustment of image magnification, allowing you to zoom in or out in smaller increments.

The maximum magnification is x30.

5.1.2 MRZ

To read the MRZ, follow these steps:



1. Click the **White**  button on the **Light Sources** panel.
2. Place the document page containing the MRZ within the field of view of the device camera.
3. Adjust the camera magnification so that the entire page fits within the camera field of view, occupies most of the frame, and the edge of the document containing the printed MRZ nearly touches the lower or upper edge of the frame.
4. Click the  button.
5. Click **Skip** when prompted to read the RFID chip.



If the MRZ is detected successfully, the recognized text will be displayed in a separate window:

MRZ

Type: Undefined
Created: 10:05:57 13.07.2026

Face comparison

Add to report

Read RFID

X

Invalid

X

Optical

MRZ verification

Image quality

Security checks

Identification

Text fields

Expiration date

Document type

Undefined

Surname and given names

IVANOVA RALITSA RADNEVA

Date of birth

01.08.1976

Age

49

Sex

F

Class

PT

Country

BGR

Number

960002155

Passport No / Passport No

960002155

ИВАНОВА
IVANOVA

РАЛИЦА РАДНЕВА
RALITSA RADNEVA

БЪЛГАРИЯ / BULGARIA

01.08.1976

Ж / F

СОФИЯ / SOFIA

19.01.2001

10.01.2002

МВР Полиция / MVR BGR

PTBGRIVANOVA<<RALITSA<RADNEVA<<<<<<<<<<<<<<<<<<<
9600021550BGR7608014F02011067608010133<<<<<10

Text fields

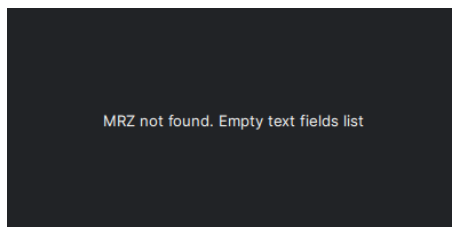
Graphic

Image quality

You can edit the MRZ strings and recheck the checksums.

Type	Value	Status
Document status	SPECIMEN	X
MRZ	SPECIMEN	O
Date of expiry	10.01.2002	X
MRZ	10.01.2002	X
Months to expire	0	X
MRZ	0	O
Surname and given names	IVANOVA RALITSA RADNEVA	O
Surname	IVANOVA	O

If the MRZ is not found while reading the document, the following message will appear:



5.1.3 RFID

To read the MRZ, follow these steps:

1. Click the **White**  button on the **Light Sources** panel.
2. Place the document page containing the RFID-chip within the field of view of the device camera.
3. Adjust the camera magnification so that the entire page fits within the camera field of view, occupies most of the frame, and the edge of the document containing the printed MRZ nearly touches the lower or upper edge of the frame.
4. Click the  button.

If the RFID-data is detected successfully, the recognized text will be displayed in a separate window:

RFID

Type: Undefined

Created: 11:13:49 26.06.2026

Add to report

Read RFID

×

Invalid

☒ Optical
 ☐ MRZ verification
 ☐ Security checks
 ☒ Text fields
 ☐ Image quality
 ☐ Identification
 ☒ Expiration date

Document type: Undefined
 Class: ID, Country: D, Number: L01XV02Z2
 Surname and given names: MUSTERMANN ERIKA
 Date of birth: 12.08.1983, Age: 42, Sex:

RFID

☐ AA ☐ BAC ☒ CA ☒ PA ☒ PACE ☐ TA

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
 EF.COM EF.SOD EF.CVCA



Type	Value	Status
Document status	SPECIMEN	✗
RFID	SPECIMEN	○
MRZ	SPECIMEN	○
Comparison	MRZ - RFID	
Surname and given names	MUSTERMANN ERIKA	✗
RFID	MUSTERMANN ERIKA	○
MRZ	MUSTERMANN ERIKA	○
Comparison	MRZ - RFID	
Surname	MUSTERMANN	✗
RFID	MUSTERMANN	○
MRZ	MUSTERMANN	○

5.1.4 Barcode

To read the barcode, follow these steps:

1. Click the **White**  button on the **Light Sources** panel.
2. Place the object with the barcode within the camera's field of view. Adjust the camera zoom so that the object is fully visible within the frame, occupying most of the frame, with the edge of the document containing the barcode nearly touching the top or bottom edge of the frame.
3. Click the  button.
4. Click **Skip** when prompted to read the RFID chip.

If the barcode-data is detected successfully, the recognized text will be displayed in a separate window:

Barcode

Type: Undefined

Created: 13:26:56 13.07.2026

Add to report

Read RFID

×

Valid

Optical

MRZ verification

Security checks

Text fields

Image quality

Identification

Expiration date

Document type

Class

Country

Number

Surname and given names

Date of birth

Age

Sex

中国南方航空

CHINA SOUTHERN

姓名

NAME

航班

FLIGHT

到达站

DEST.

日期

DATE

CZ 6139

BEIJING

北京

16OCT

座位号

SEAT

41H

舱位

CLASS

Y

登机口

GATE

12

登机时间

BOARDING TIME

1935

登机号

057

ETKT 7848501432454/1

重要提示: 飞机起飞前15分钟关闭登机闸口

GATES CLOSE 15 MINUTES BEFORE DEPARTURE

Text fields

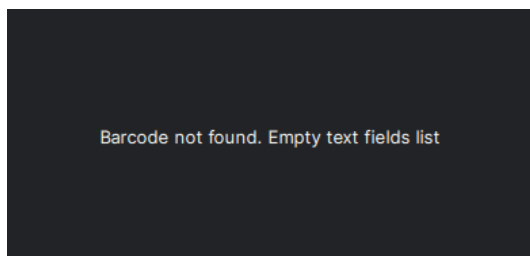
Security checks

Image quality

You can edit the MRZ strings and recheck the checksums.

Type	Value	Status
> Surname and given names		⊖
> Date of flight	16.10.2026	⊕
> Electronic ticket indicator	E	⊖
> PNR code	NF44JM	⊖
> Code of the airport of departure	DLC	⊖
> Airport of departure	DALIAN	⊖
> Code of the airport of arrival	PEK	⊖

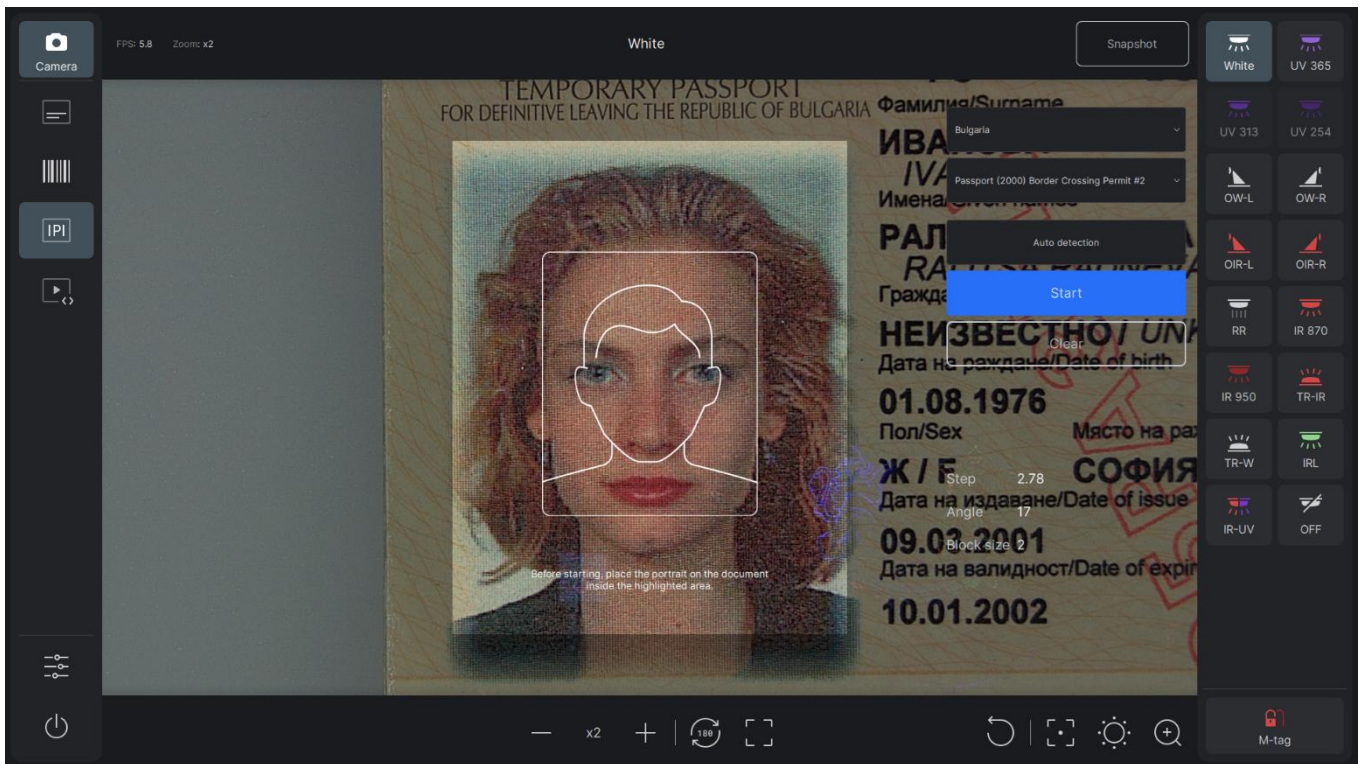
If the barcode is not found while reading the document, the following message will appear:



5.1.5 IPI

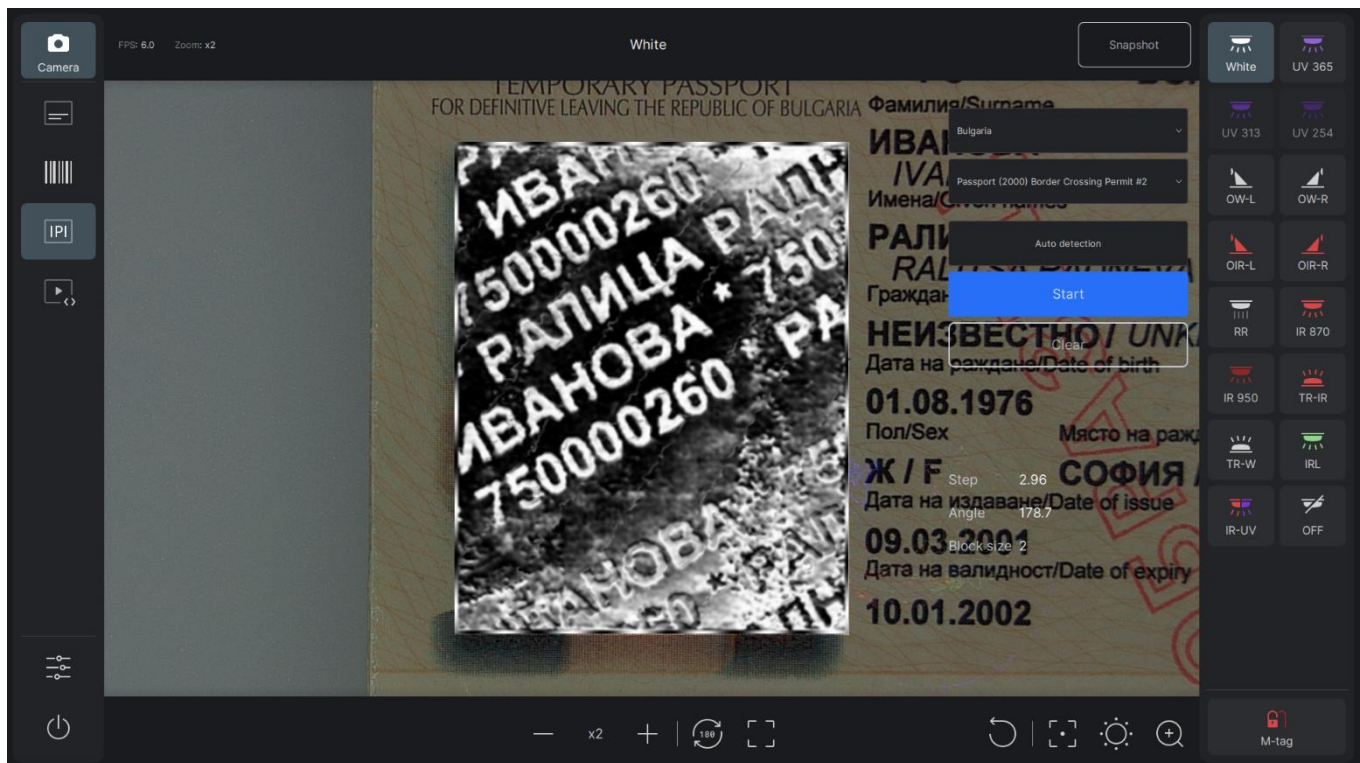
The **IPI** tool enables users to visualize and examine invisible personal information and hidden images embedded in the graphic security elements of documents using various technologies.

1. Click the  button.
2. Position the document so that the portrait is located within the highlighted area.



3. Select a country from the **Countries** drop-down list.
4. Select a document from the **Documents** drop-down list.
5. Click one of the following buttons:
 - a. **Auto detection** – to automatically select visualization parameters based on the contents of the highlighted area. Once the examination is complete, the hidden personal data will be displayed within the selected area.
 - Or
 - b. **Start** – to begin processing the selected area.

Example of hidden information displayed:



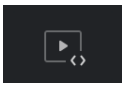
Click **Clear** to reset the visualization of the hidden data.

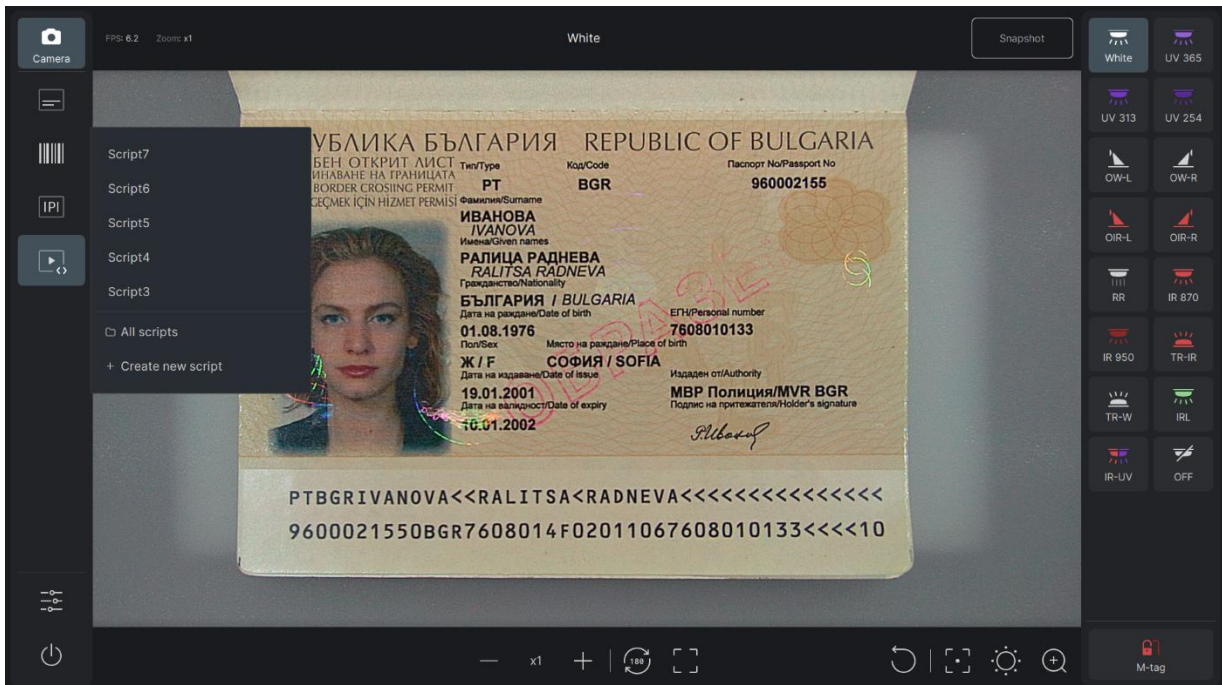
5.1.6 Script

The **Script** feature allows you to create, record, and manage scripts. By following the steps below, you can record a sequence of actions and save it as a script for future reuse.

The process includes creating a new script, recording actions, and managing previously saved scripts.

Creating a new script

1. Click the  button.
2. Select **Create new script**.

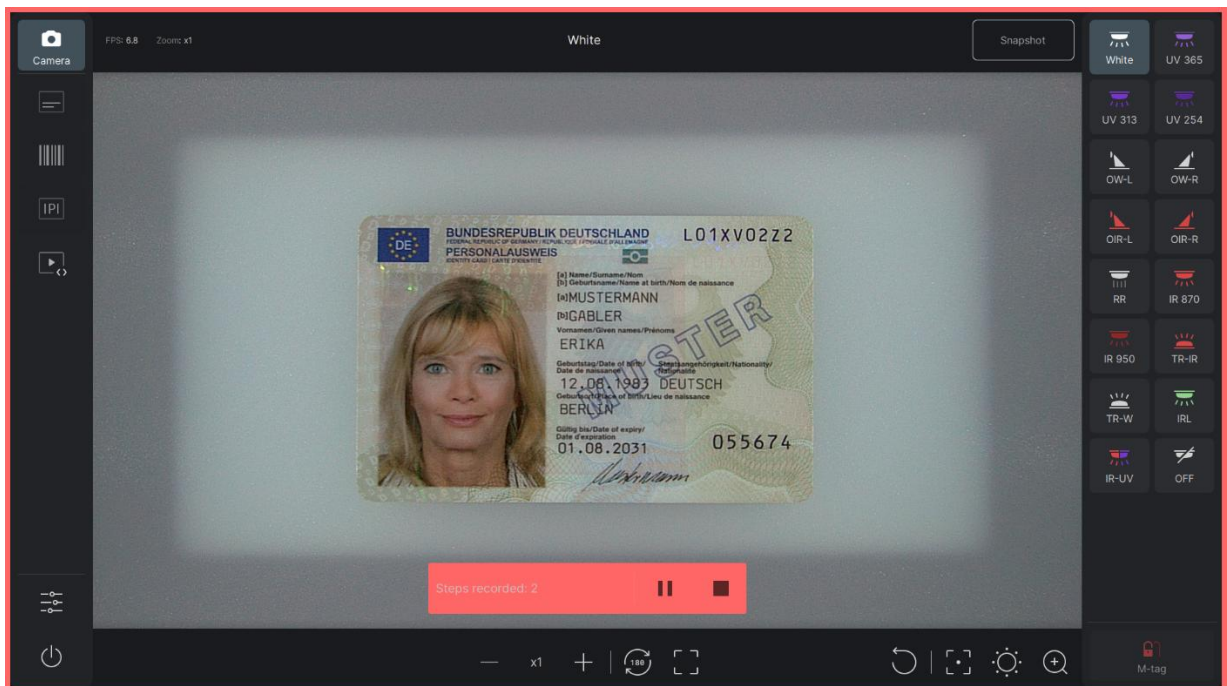


3. In the **New script** window, enter the script name and description in the **Name** and **Description** fields, respectively.

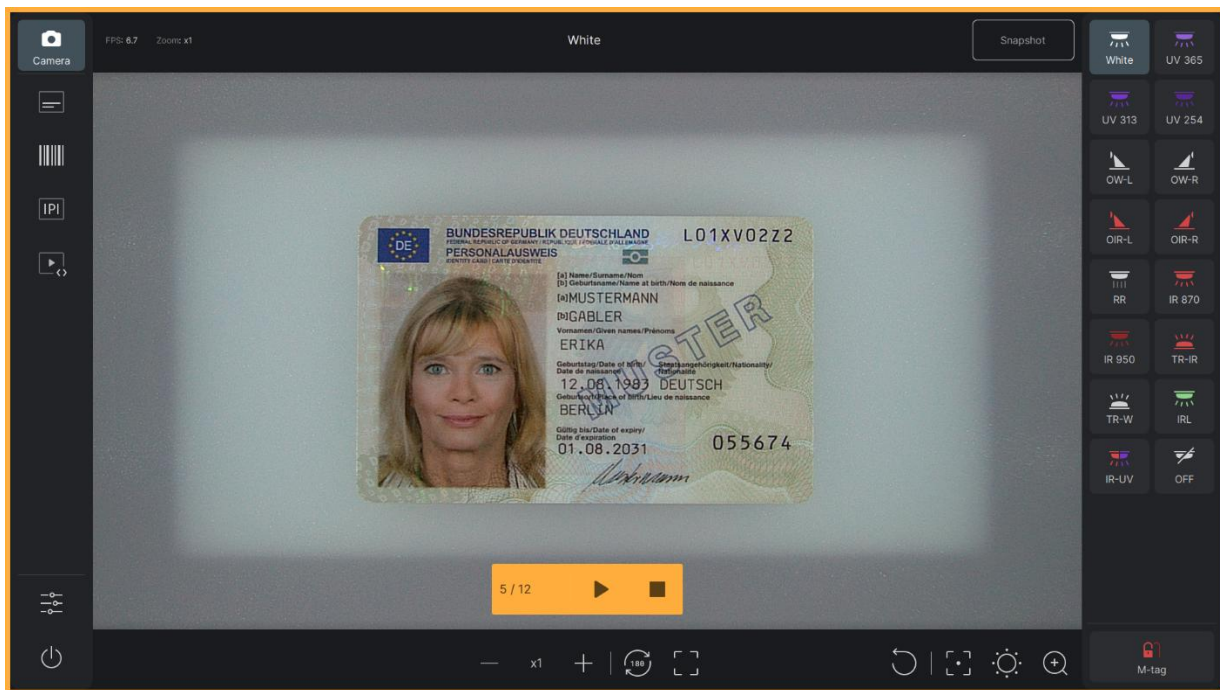


- Click **Start recording** to begin recording the steps of the new script. To exit the recording process, click **Cancel**.

Once script recording begins, a red border will appear around the screen.



When recording is paused by clicking **Pause** , the border around the screen will turn yellow.



- To finish recording and save the script, click **Stop** . The recorded script will appear in the **All Scripts** list.

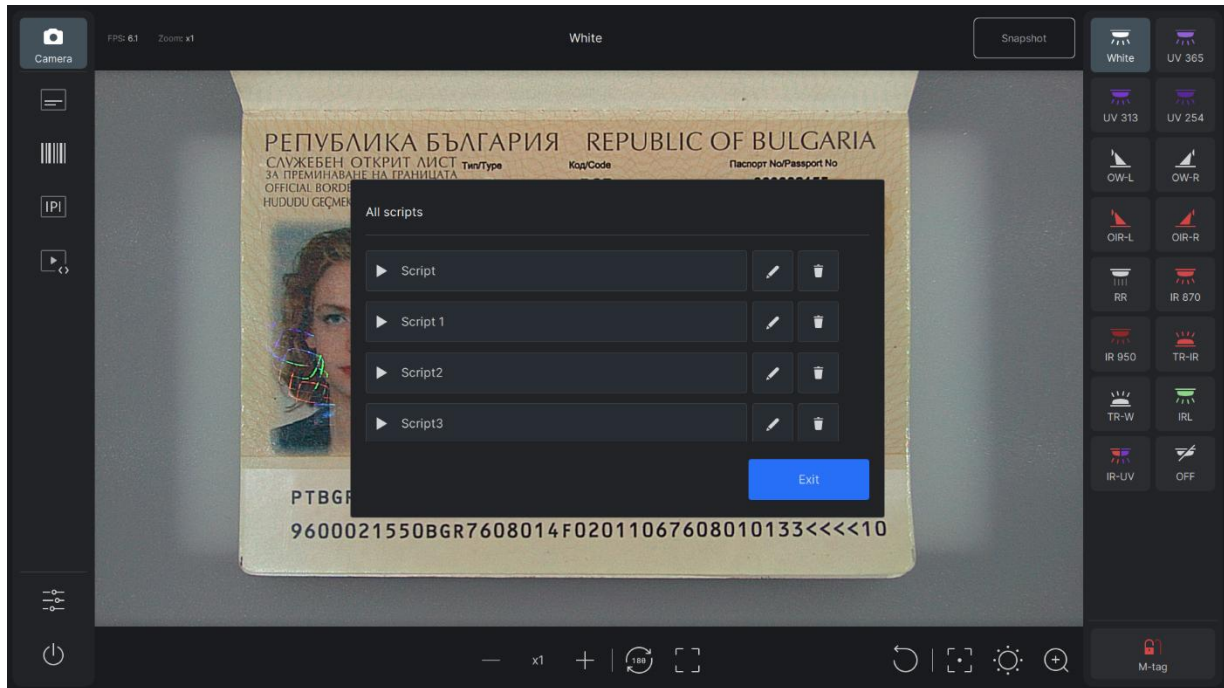
Running a script:

- Click the  button.
- Select a script from the five most recently saved scripts. The script will start automatically.

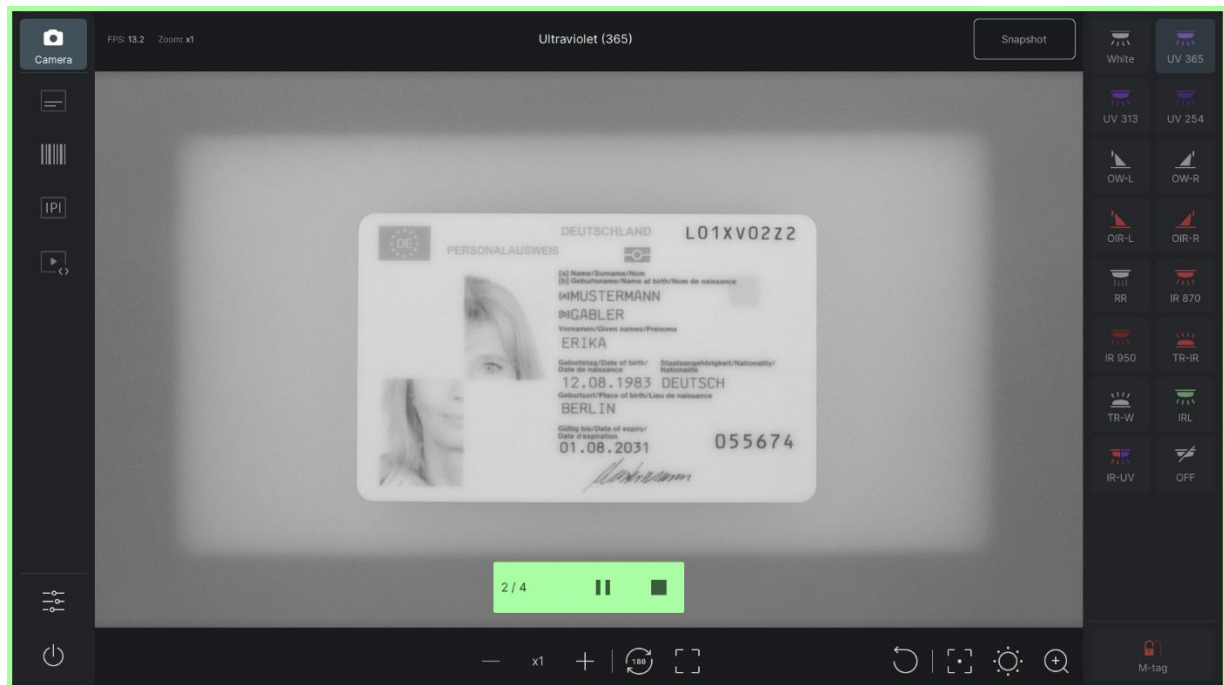


Or

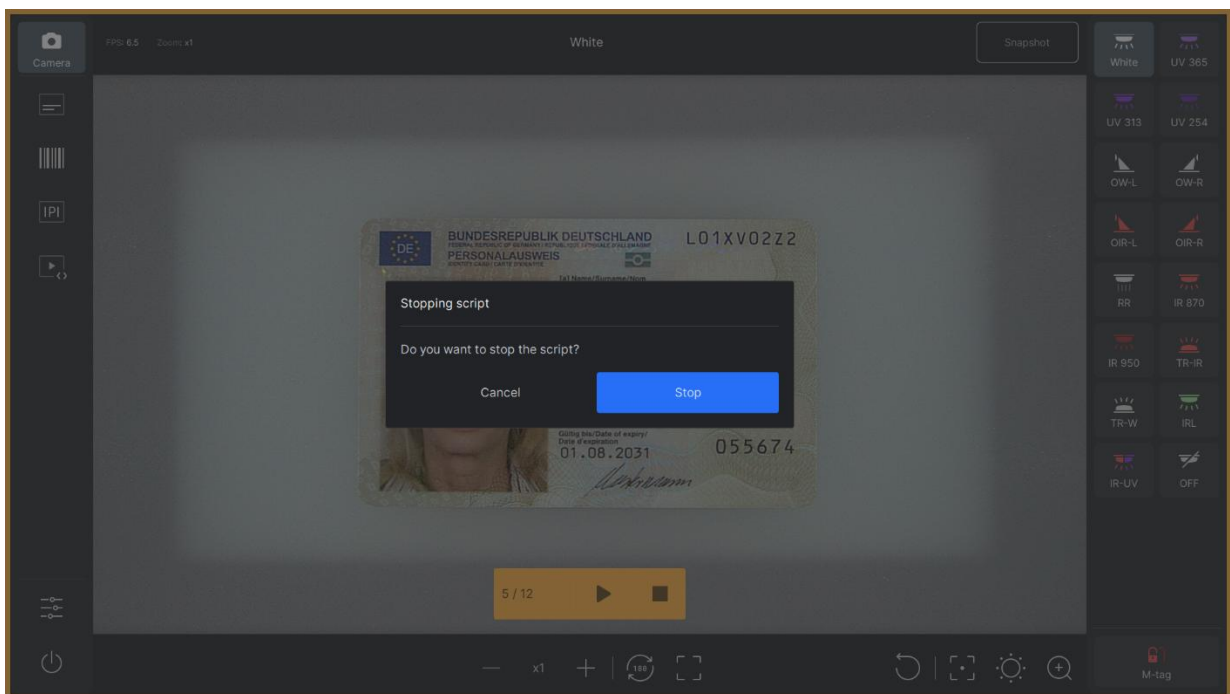
Select **All scripts**.



- Click **Run**  to the left of the script name. When the script starts, a green border will appear around the screen.

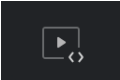


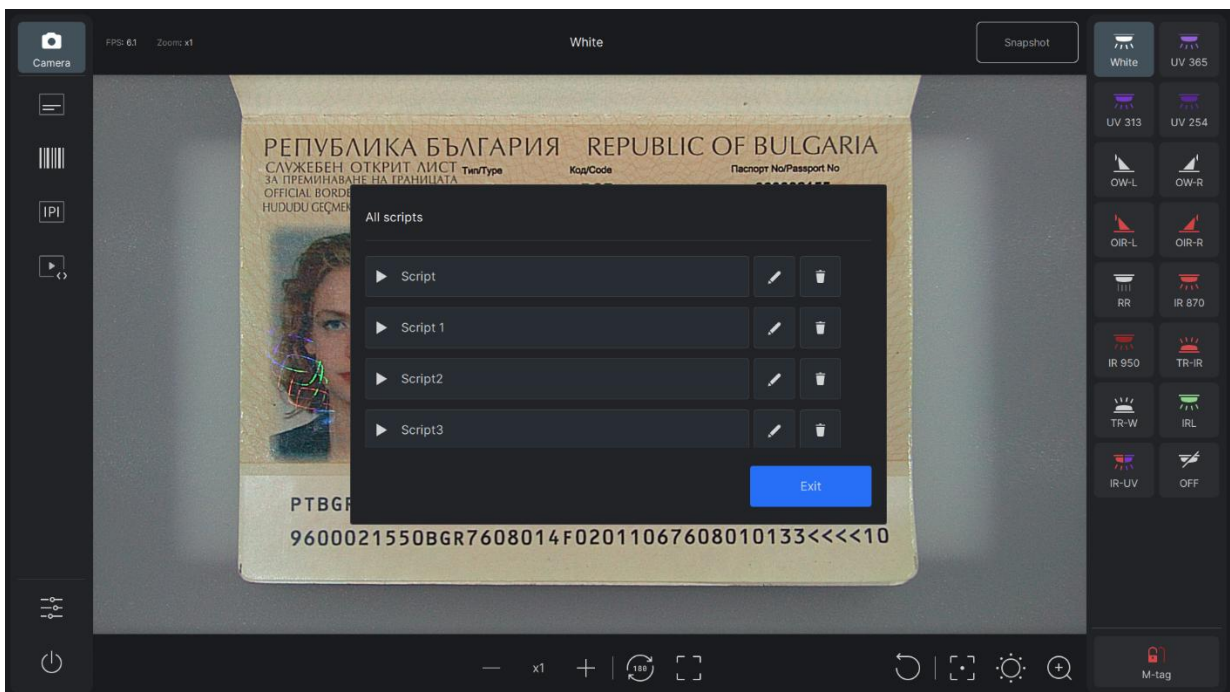
- You can pause the script by clicking **Pause** , or stop it by clicking **Stop** .



5. Confirm that you want to stop the script by clicking **Stop**.

Editing a script:

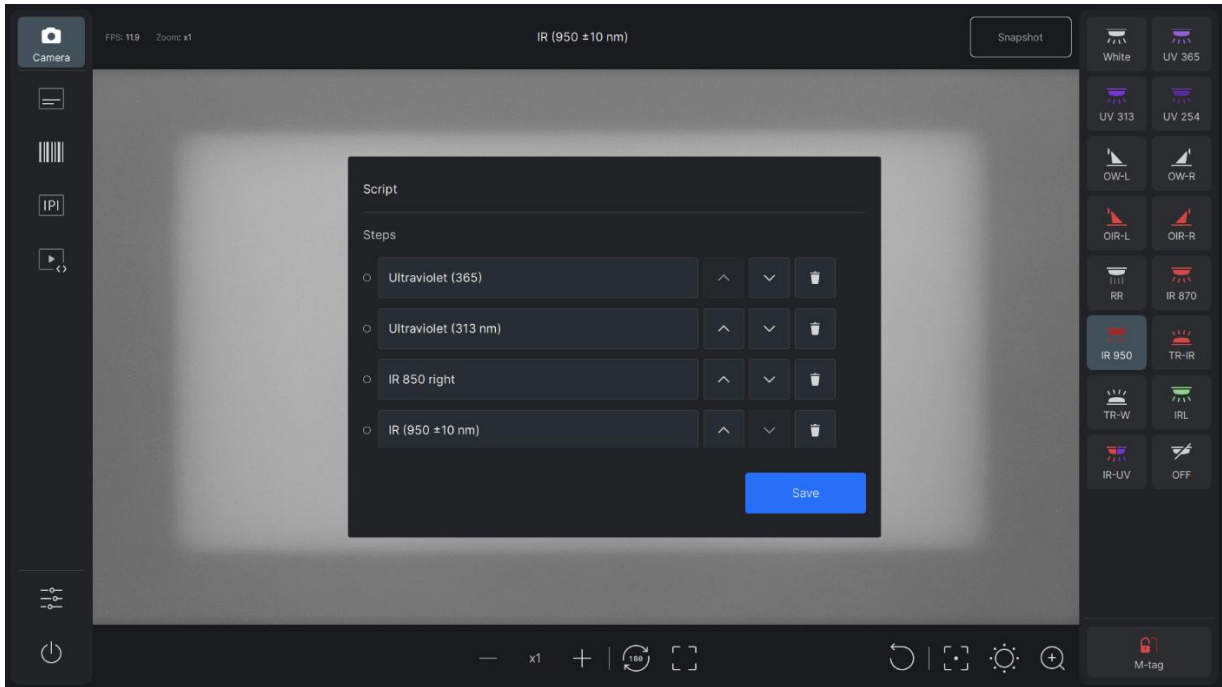
1. Click the  button.
2. Select **All scripts**.



3. Click **Edit**  to the right of the script name. In the window that opens, you can change the order of the steps in the script.

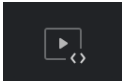
To do this, click and hold a step with the left mouse button, then drag it to the desired position in the playback order. You can also use the **up**  and **down**  arrows to move the step within the list.

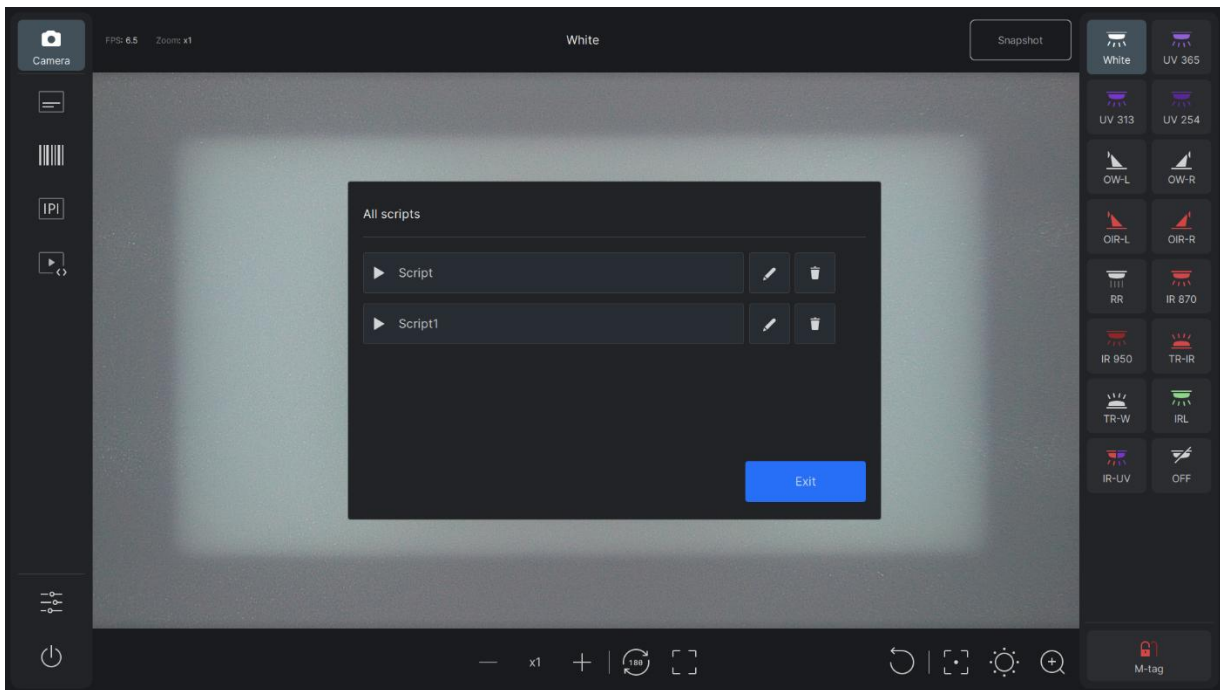
4. To remove a step from the script, click **Delete**  in the corresponding step row.



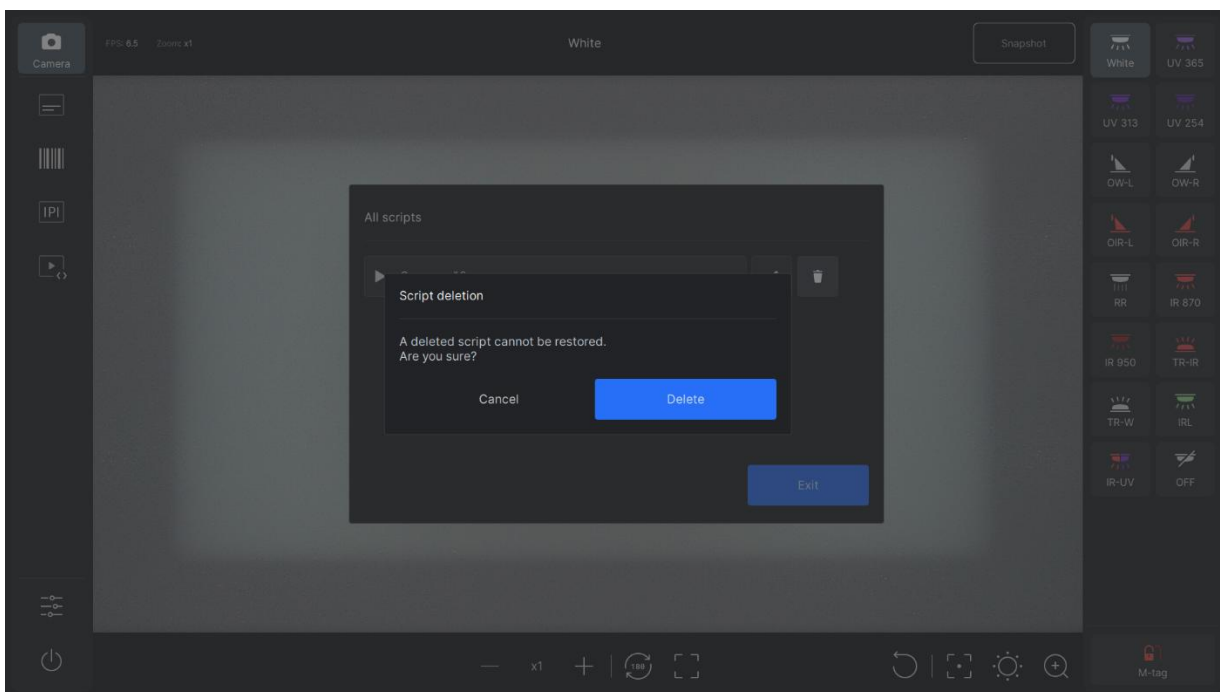
5. Click **Save** to save the changes made to the script.

Deleting a script:

1. Click the  button.
2. Select **All scripts**.



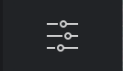
3. Click **Delete**  to the right of the script name.



4. Confirm the deletion by clicking **Delete**. To cancel script deletion, click **Cancel**.

5.2 Settings

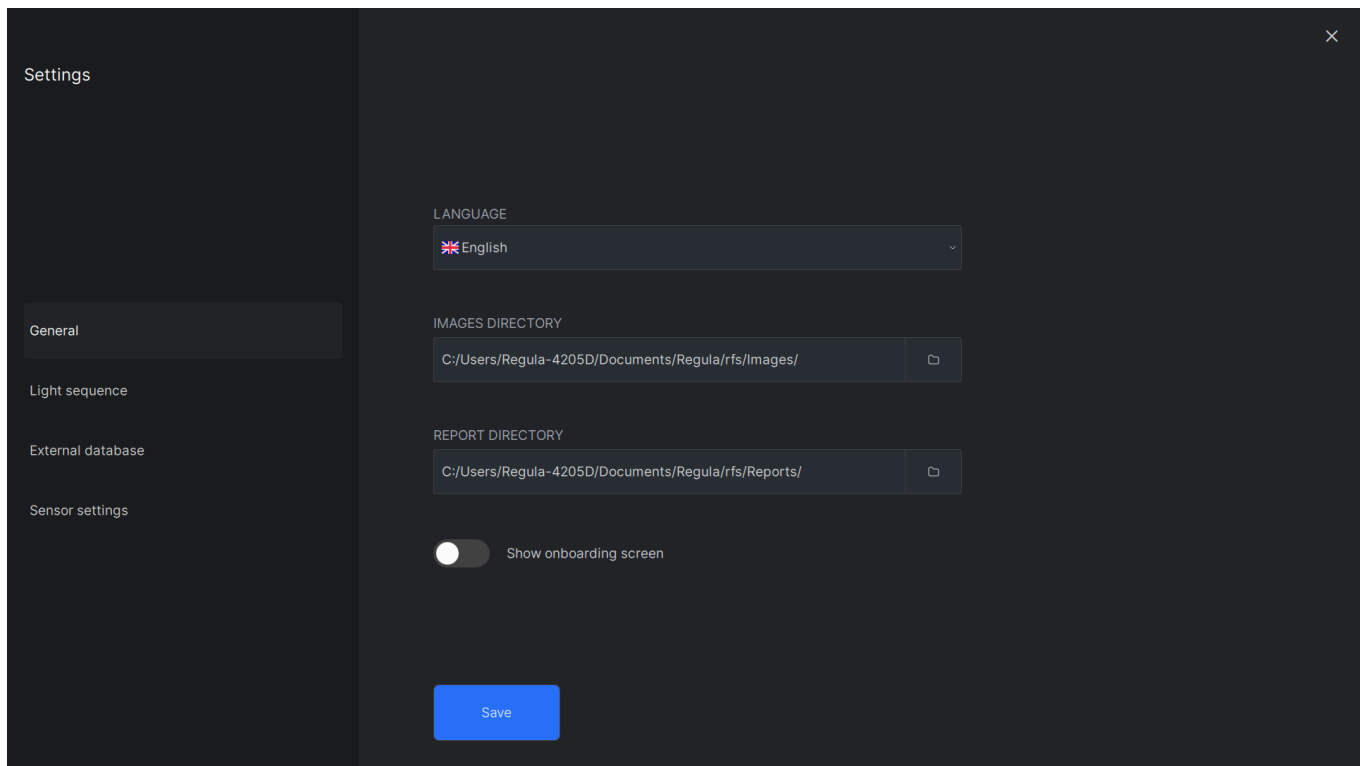
The **Settings** section is used to prepare the device for operation according to the operating conditions and the user's requirements. Here, you can configure the main parameters, change operating modes, adjust data display settings, and modify other options that affect the accuracy, convenience, and efficiency of device operation.

To open the device settings, click **Settings**  in the bottom-right corner of the screen.

The **Settings** menu contains the following tabs:

- General
- Light sequence
- External database
- Sensor settings

5.2.1 General

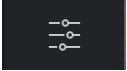


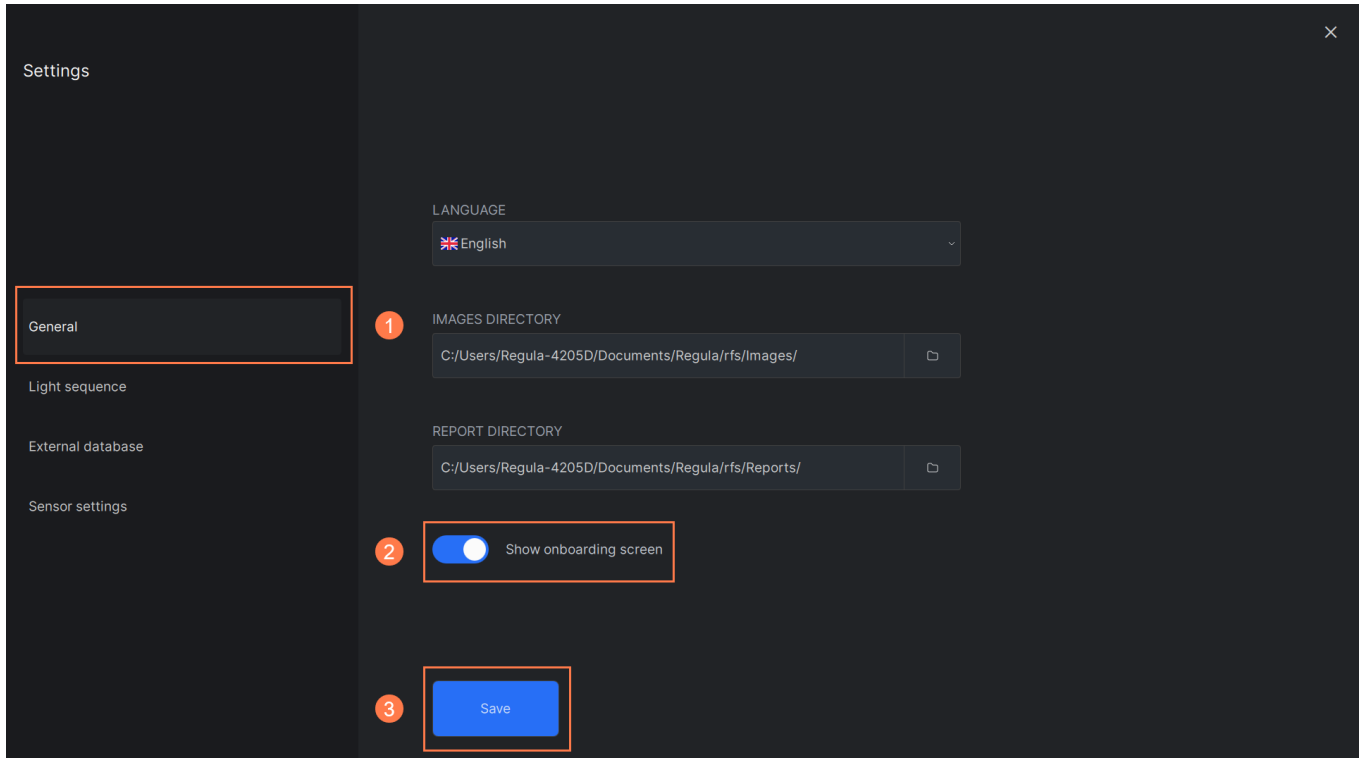
The **General** tab contains the following settings:

Language	Select the interface language from the list of available languages.
Image directory	Specify the path to the folder where saved images will be stored.
Report directory	Specify the path to the folder where reports will be stored.
Show onboarding screen	Enable this option to display the onboarding screen, which provides an overview of the device's main functions. A more detailed description of how to use the onboarding screen is provided below.

5.2.1.1 Onboarding Screen

To complete the basic onboarding before using the device, follow these steps:

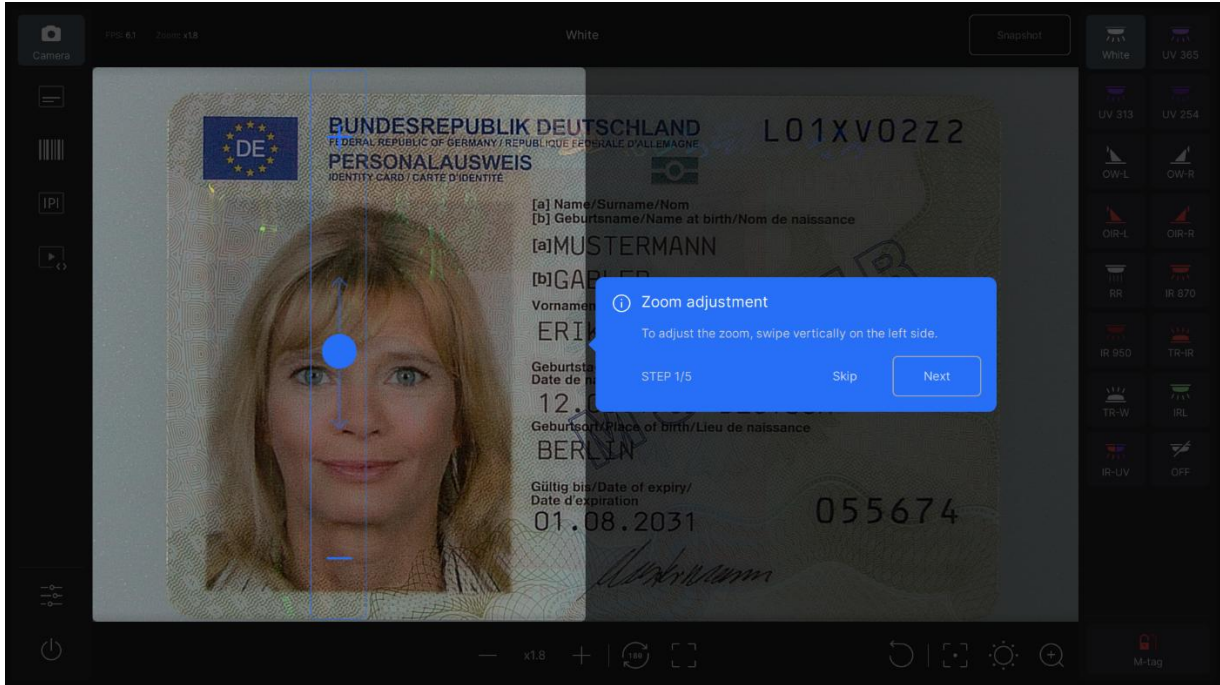
1. On the device's main screen, click **Settings**  in the lower-right corner.
2. Open the **General** tab.
3. Enable **Show onboarding screen**.
4. Click **Save**. The onboarding screen will open.



The onboarding screen includes the following steps:

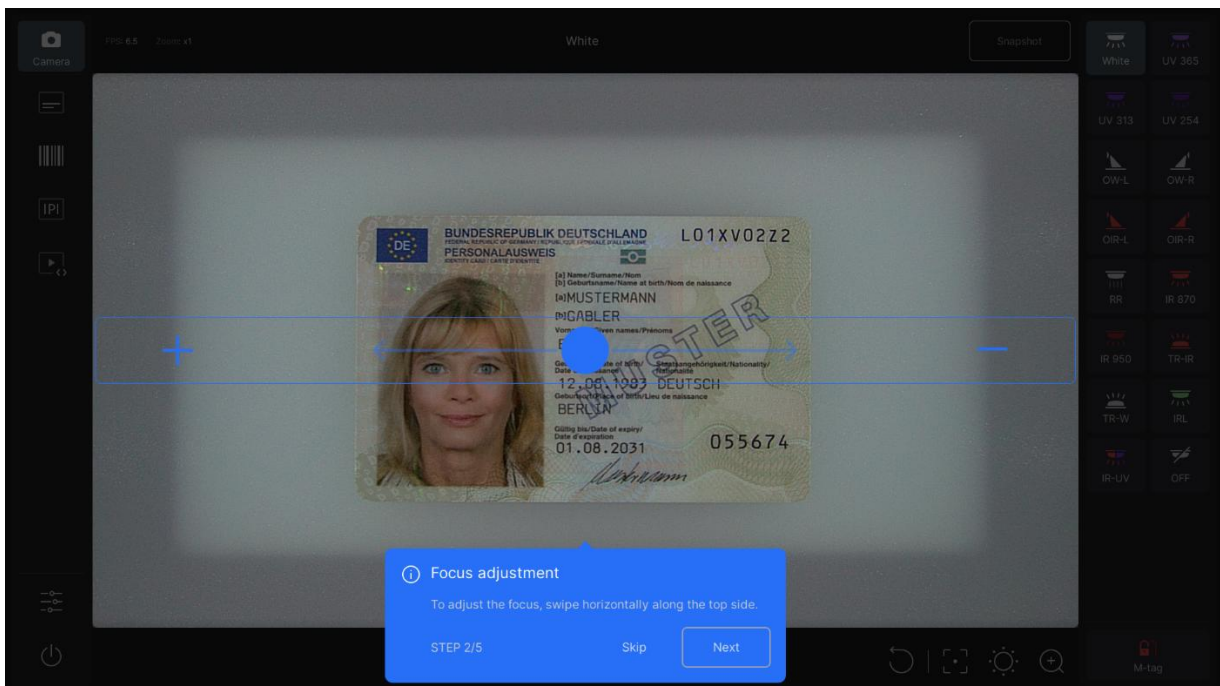
1. Zoom adjustment

To adjust the zoom, swipe vertically along the left side of the screen. Click **Next** to proceed to the next step.



2. Focus adjustment

To adjust the focus, swipe horizontally along the top of the screen. Click **Next** to proceed to the next step.



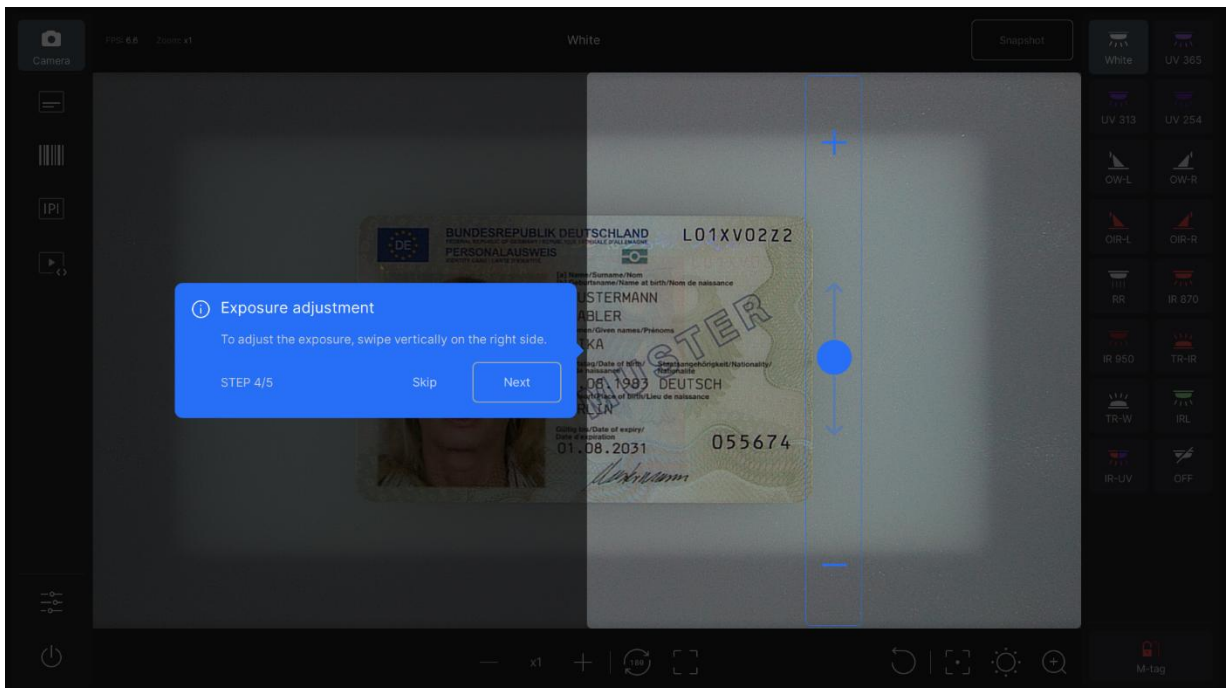
3. Autofocus

To use autofocus, tap the required area of the image on the main screen. Click **Next** to proceed to the next step.



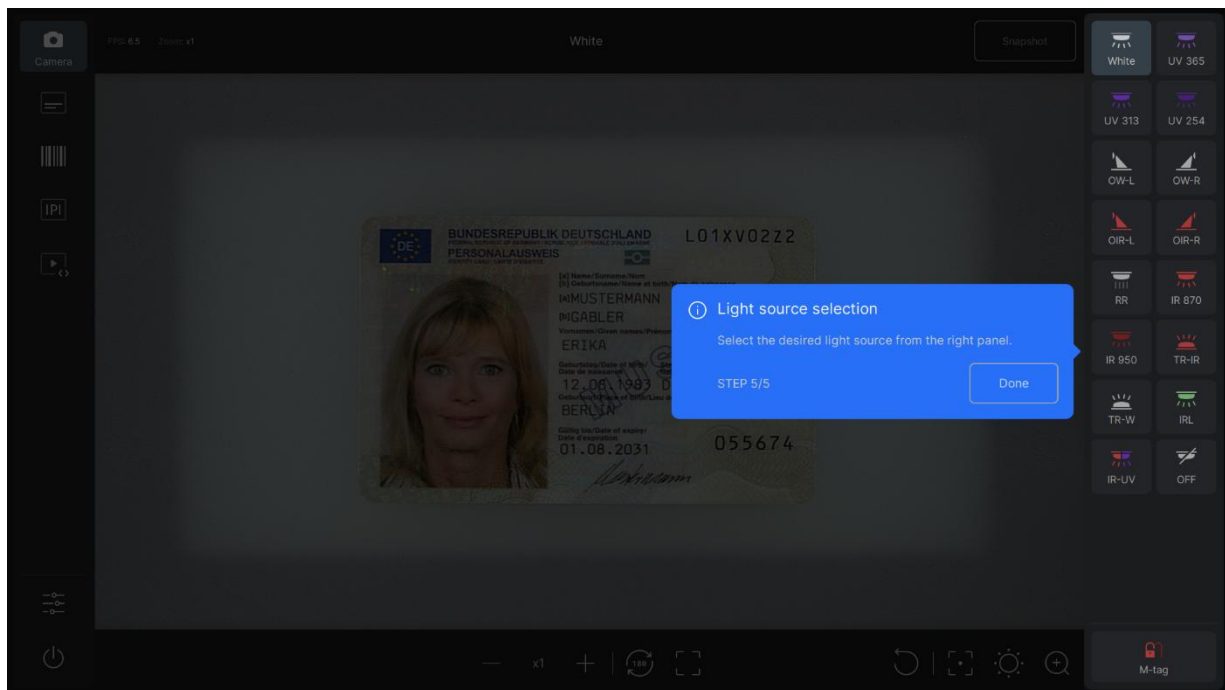
4. Exposure adjustment

To adjust the exposure, swipe vertically along the right side of the screen. Click **Next** to proceed to the next step.



5. Light source selection

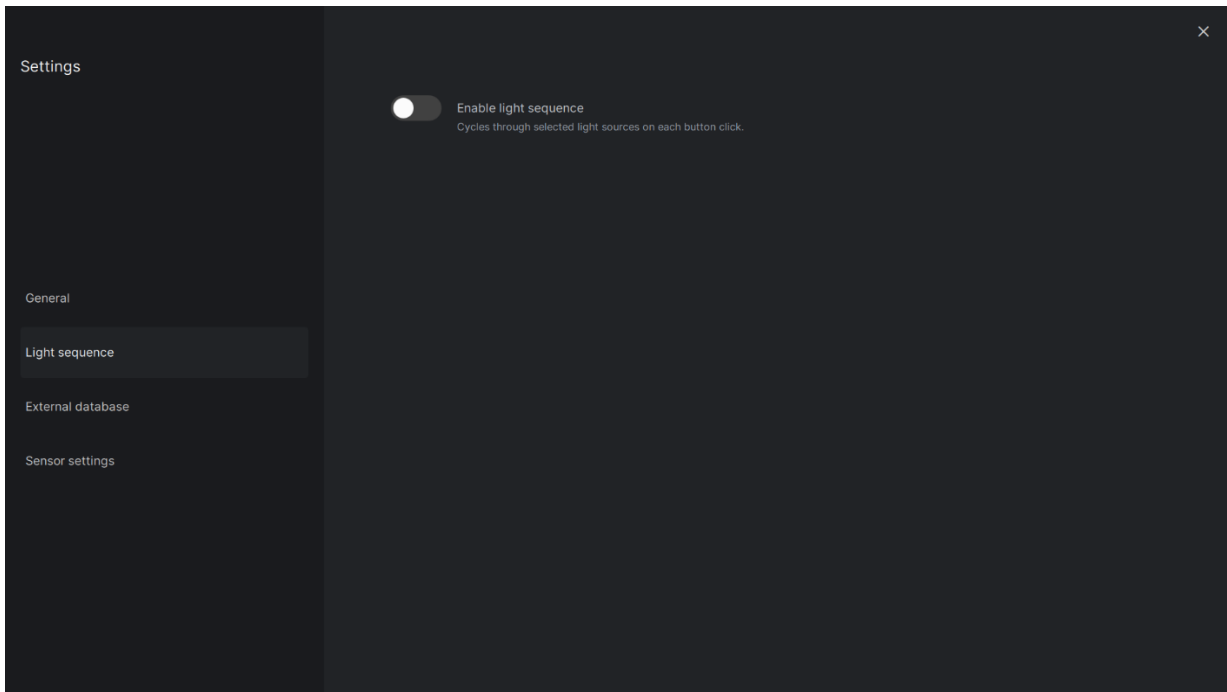
To turn on a light source, select it from the panel on the right side of the screen. Click **Done** to complete the onboarding.



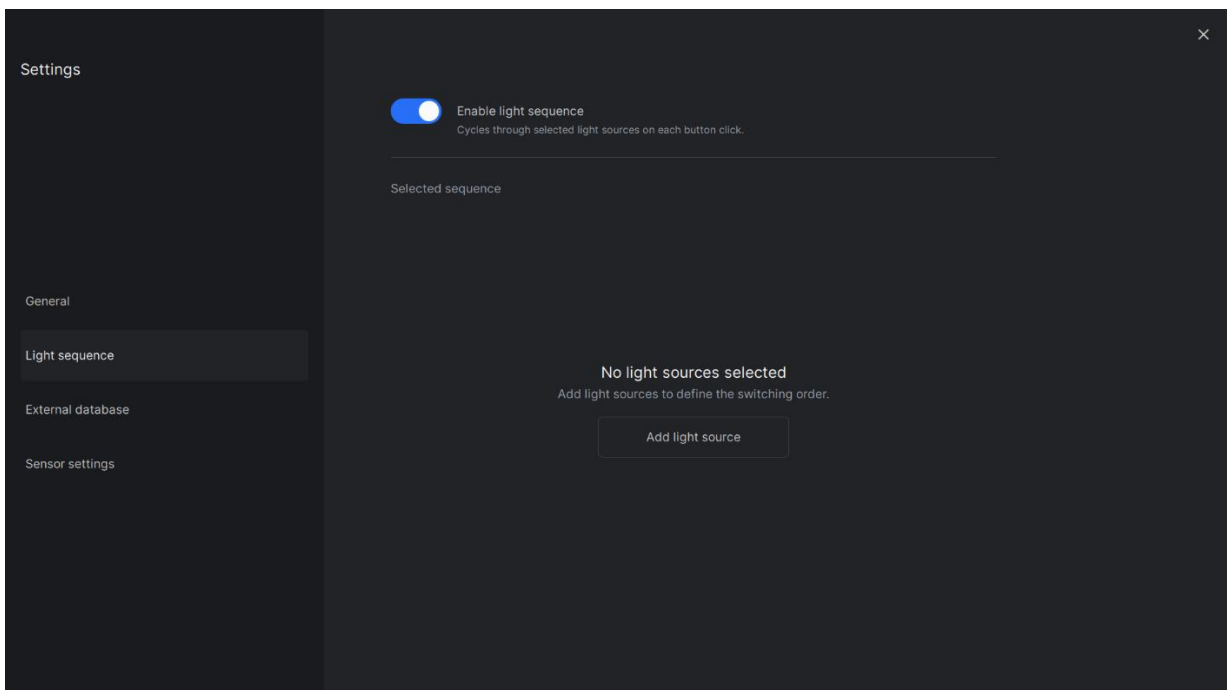
5.2.2 Light Sequence

To define a specific sequence for switching the light sources on and off, follow these steps:

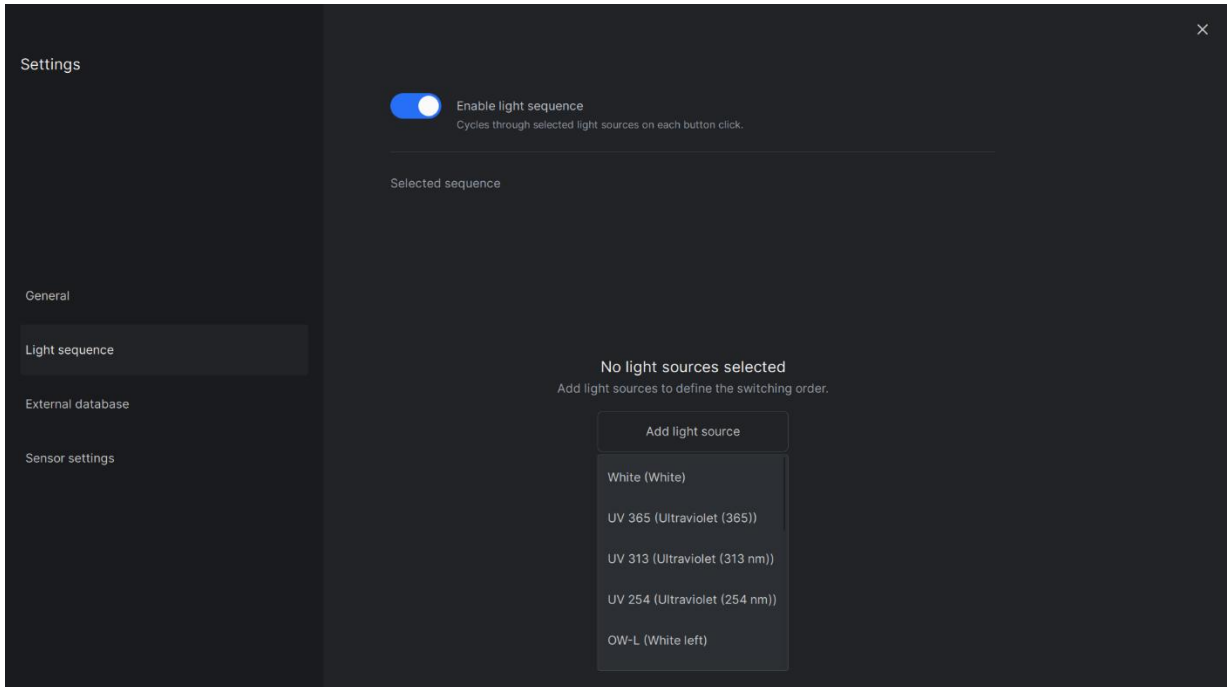
1. On the device's main screen, click the **Settings** button in the lower-right corner.
2. Open the **Light sequence** tab.



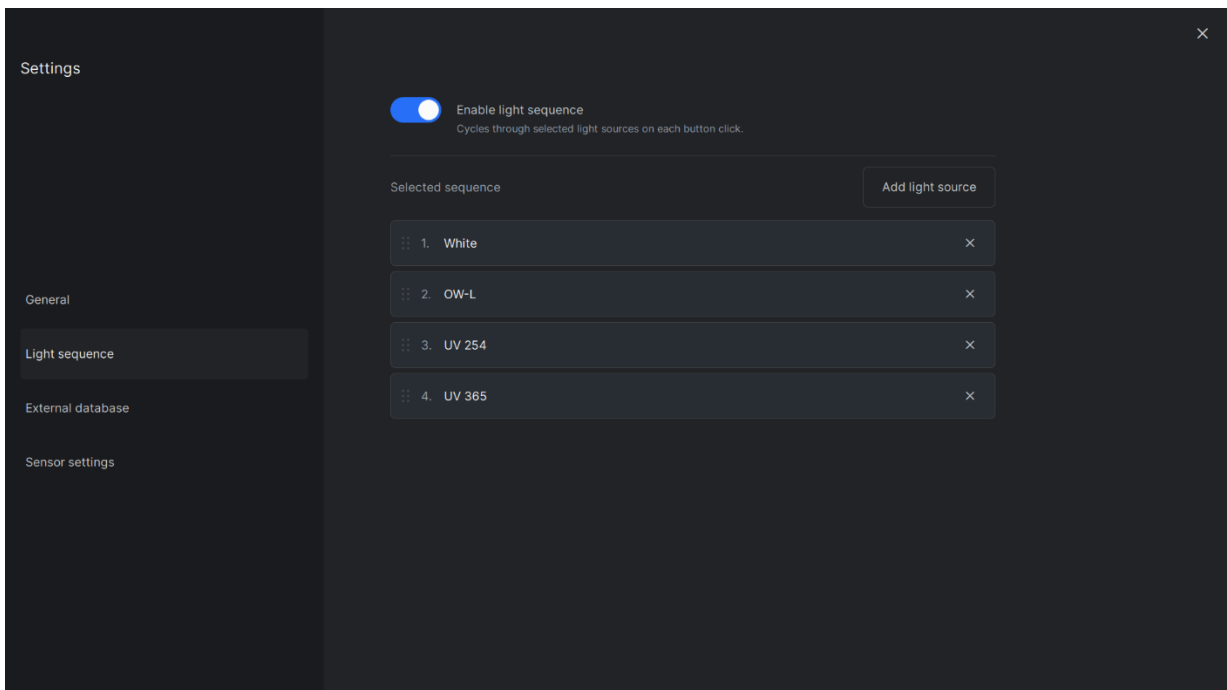
3. Enable the **Enable light sequence** option.



4. Click **Add light source**.



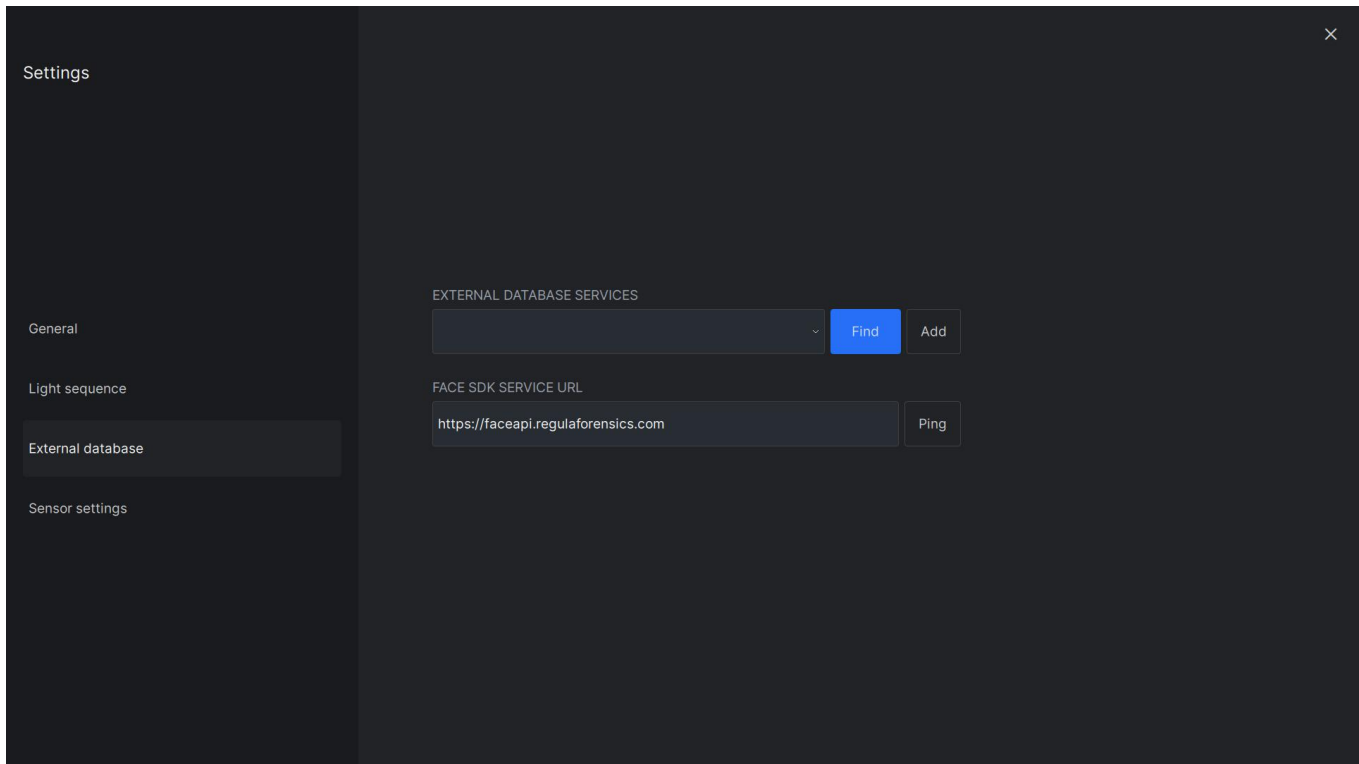
5. Select light sources from the drop-down lists to define the switching order.



6. To change the order of the light sources, click and hold the  icon to the left of the light source name, then drag it to the desired position in the sequence.
7. To add another light source to the sequence, click **Add light source**.
8. To remove the light source from the sequence, click the corresponding  button in the row of the light source you want to remove.

After configuration, a **Next: <light source name>** button appears in the lower-right corner of the main screen. Each time you press the button, the light sources are activated one by one in the specified order.

5.2.3 External Database



The **External database** tab contains the following settings:

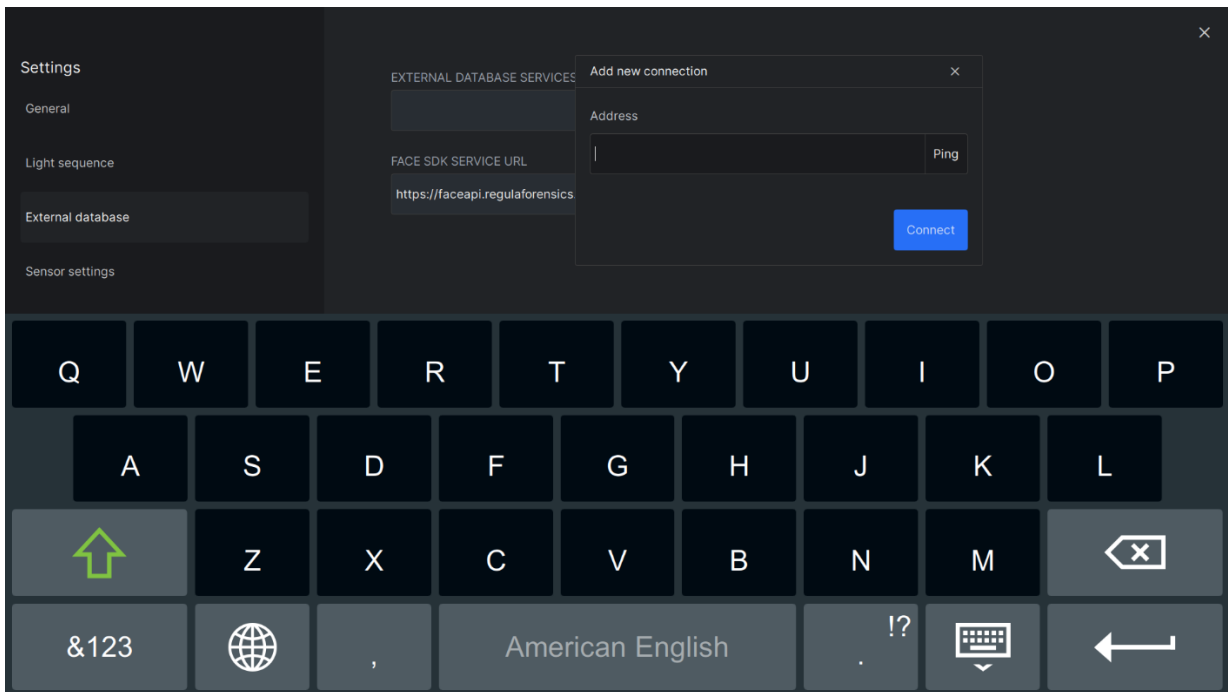
- **External database services**

Note. This functionality is available only after purchase.

Select an external database service from the drop-down list.

To refresh the list, click **Find**.

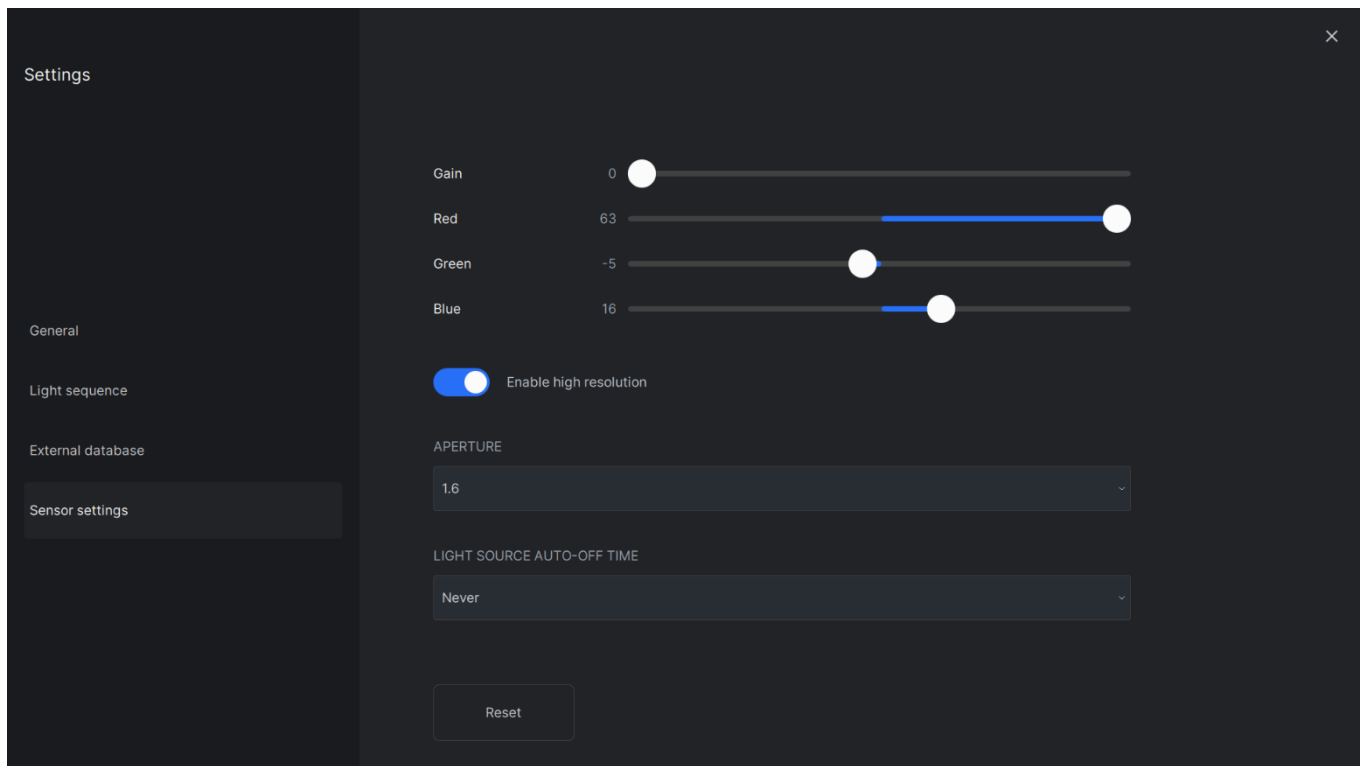
To connect an external database service, click **Add**. In the window that opens, enter the address of the new connection and click **Connect**.



- **Face SDK Service URL**

Specify the Face SDK service URL to be used for face comparison during document authenticity verification.

5.2.4 Sensor Settings



The **Sensor settings** tab contains the following options:

Gain	Adjust the gain level of the signal received from the device camera. Increasing the value can improve image brightness in low-light conditions; however, it may introduce digital noise and reduce image detail.
Red	Adjust the red color balance.
Green	Adjust the green color balance.
Blue	Adjust the blue color balance.
Enable high resolution	Enable this option to obtain a high-resolution image from the camera.
Aperture	Select the aperture value to adjust the opening in the camera lens through which light reaches the sensor. The lower the number, the wider the aperture opens, allowing more light into the camera and producing a stronger background blur. The higher the number, the narrower the aperture, allowing less light in while keeping more objects in the frame in focus.

Note. After changing the aperture, you may need to readjust the exposure.

Light source auto-off time	Select the light source's automatic shut-off time from the drop-down list. Once the specified time has elapsed, the light source will switch off automatically, helping to reduce power consumption and prevent the device from overheating. The setting can be changed again before operation or during configuration, if necessary.
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Reset	Click Reset to restore all settings to their original default values. Any previously made changes will be discarded, and the device settings will return to their standard state.
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5.3 Light Sources

The **Light Sources** section is used to control the device's light sources. Here, you can switch the light sources on and off, configure their settings, and specify the automatic shut-off time after a period of inactivity.

Note: By default, the light sources switch off automatically after 5 minutes of inactivity. You can configure the automatic shut-off time using the **Light Source Auto-Off Time** setting under **Settings** on the **Sensor Settings** tab.

5.3.1 Incident White Light Mode

This mode is used to examine color images of the objects under investigation at different magnification levels.



To switch on the light source, click the  button. The monitor will display the active mode: **White**.

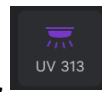


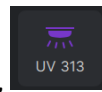
To switch off the light source, click the  button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.2 Ultraviolet 365/313/254 nm Light Mode

This mode is used to examine documents containing substances that luminesce in the visible range when excited by ultraviolet (hereinafter referred to as UV) radiation at wavelengths of 365, 313, or 254 nm. It is also intended to verify the presence or absence of UV absorption or luminescence properties in the materials of the document being examined, and to differentiate the materials used to produce individual document elements according to their degree of UV absorption or reflection, thereby enabling the detection of added entries.



The light source is switched on by pressing one of the , ,  buttons. The monitor then displays information about the active mode: **Ultraviolet 365 nm**, **Ultraviolet 313 nm**, or **Ultraviolet 254 nm**.

Note: The **Ultraviolet 313 nm** and **Ultraviolet 254 nm** light sources are available only when the device shutter is fully closed.



To switch off the light source, click the button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

For best results when observing UV luminescence, it is recommended to work without bright ambient light, either in a darkened room or at a workstation specifically shielded from bright light.

Note: Do not bring exposed areas of the body closer than 3 cm to the UV LEDs while they are switched on.

Strictly follow these recommendations when working with a UV light source:

1. Place the object to be examined on the instrument stage.
2. Switch on the UV light source as described above. To switch on the 313 nm and 254 nm light sources, fully extend the protective shutter.
3. Examine the UV luminescence.
4. Switch off the UV light source.
5. Remove the examined object from the instrument stage unless further examination is required.

5.3.3 Oblique White Light Mode

The instrument is equipped with two white oblique light sources located on either side of the instrument stage.

This mode is used to examine documents under oblique illumination and to detect relief image elements, such as intaglio printing, letterpress printing, blind embossing, indented colorless strokes, etc.



The light source is switched on by clicking or . The monitor displays information about the active mode: **White left** or **White right**.



To switch off the light source, click the button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.4 Oblique Infrared Light Mode

The instrument is equipped with two infrared (hereinafter referred to as IR) oblique light sources located on either side of the instrument stage.

This mode is used to examine documents under oblique IR illumination and to detect relief image elements produced using colorants that are transparent to IR radiation, such as intaglio printing, letterpress printing, blind embossing, indented colorless strokes, etc.



The light source is switched on by clicking  or . The monitor displays information about the active mode: **IR 850 left** or **IR 850 right**.

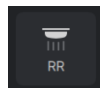


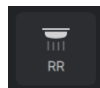
To switch off the light source, click the  button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.5 Coaxial White Light Mode

This mode is used to examine documents containing retroreflective security features.



The light source is switched on by clicking the  button. The monitor displays information about the active mode: **Coaxial white**.



To switch off the light source, click the  button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.6 Incident Infrared 870/950 nm Light Mode

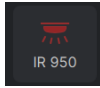
This mode is used to inspect images on examined documents in the IR spectral range of 870 and 950 nm. The mode makes it possible to detect document authenticity features determined by the IR properties of the materials used in the document.

For example, consider a document in which part of the image on the front and reverse sides is produced with ink that is opaque to IR radiation. The IR top light 870/950 nm mode makes it possible to:

- Detect images or text produced with organic colorants (printing ink, graphite pencil, India ink, or carbon paper colorant) that have been covered over (crossed out or hatched) with inorganic colorants (ink).
- Detect traces of preliminary preparation used in the technical forgery of signatures or individual image elements of the examined document in the form of extraneous strokes that do not relate to the examined details and are made of materials opaque to IR radiation.

- Differentiate the document materials used for individual fragments according to the degree of IR absorption or reflection, making it possible to detect additions.



The light source is switched on by clicking  or . At the same time, an IR-transmitting filter is automatically placed in front of the camera for observation in the IR spectral range. The monitor displays information about the active mode: **IR (870 ±10 nm)** or **IR (950 ±10 nm)**.



To switch off the light source, click the  button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.7 White and IR Transmitted Light Mode

This mode is used to examine watermarks, filigrees, security threads and fibers, see-through register images, transparent and semitransparent windows, and perforations. It is also used to identify areas where the optical density of the paper has changed as a result of alterations made by erasure, chemical etching, or washing.



The light source is switched on by clicking  or . When the transmitted IR light source is activated, an IR-transmitting filter is automatically placed in front of the camera for observation in the IR spectral range. The monitor displays information about the active mode: **White transmitted** or **IR 870 transmitted**.

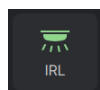


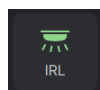
To switch off the light source, click the  button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.8 530 nm Spot Light Mode

This mode is used to examine the IR-luminescent properties of materials and colorants when excited at a wavelength of 530 nm and to observe the luminescent response in the IR range above 650 nm.



The light source is switched on by clicking the  button. At the same time, an IR-transmitting filter is automatically placed in front of the camera for observation in the IR spectral range. The monitor displays information about the active mode: **530 nm spot**.

For best results when observing IR luminescence, it is recommended to work without bright ambient light, either in a darkened room or at a workstation specifically shielded from bright light, with the protective screen closed.



To switch off the light source, click the button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.9 IR and UV Mode (870 + 365 nm)

This mode is used for simultaneous examination of an object in the infrared and ultraviolet ranges. It makes it possible to detect material features, security elements, traces of alterations, contamination, and other signs that may be invisible under normal lighting.



The light source is switched on by clicking the button. In this case, the 870 nm infrared light source and the 365 nm ultraviolet light source are switched on simultaneously. An IR-transmitting filter is automatically placed in front of the camera for observation in the IR spectral range. The monitor displays information about the active mode: **IR-UV (870 + 365 nm)**.

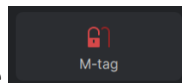


To switch off the light source, click the button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.3.10 M-Tag Mode

This mode is used to examine materials with different degrees of transparency to IR radiation at wavelengths of 870 and 950 nm. Alternately switching between the IR Top Light 870 nm and IR Top Light 950 nm modes makes it possible to detect differences in the absorption of IR radiation in the corresponding spectral ranges.



The mode is activated by clicking the button. The 870 nm and 950 nm IR light sources then switch on alternately, and an IR-transmitting filter is automatically positioned in front of the camera for observation in the IR spectral range. The monitor displays information about the active mode: **M-tag**.



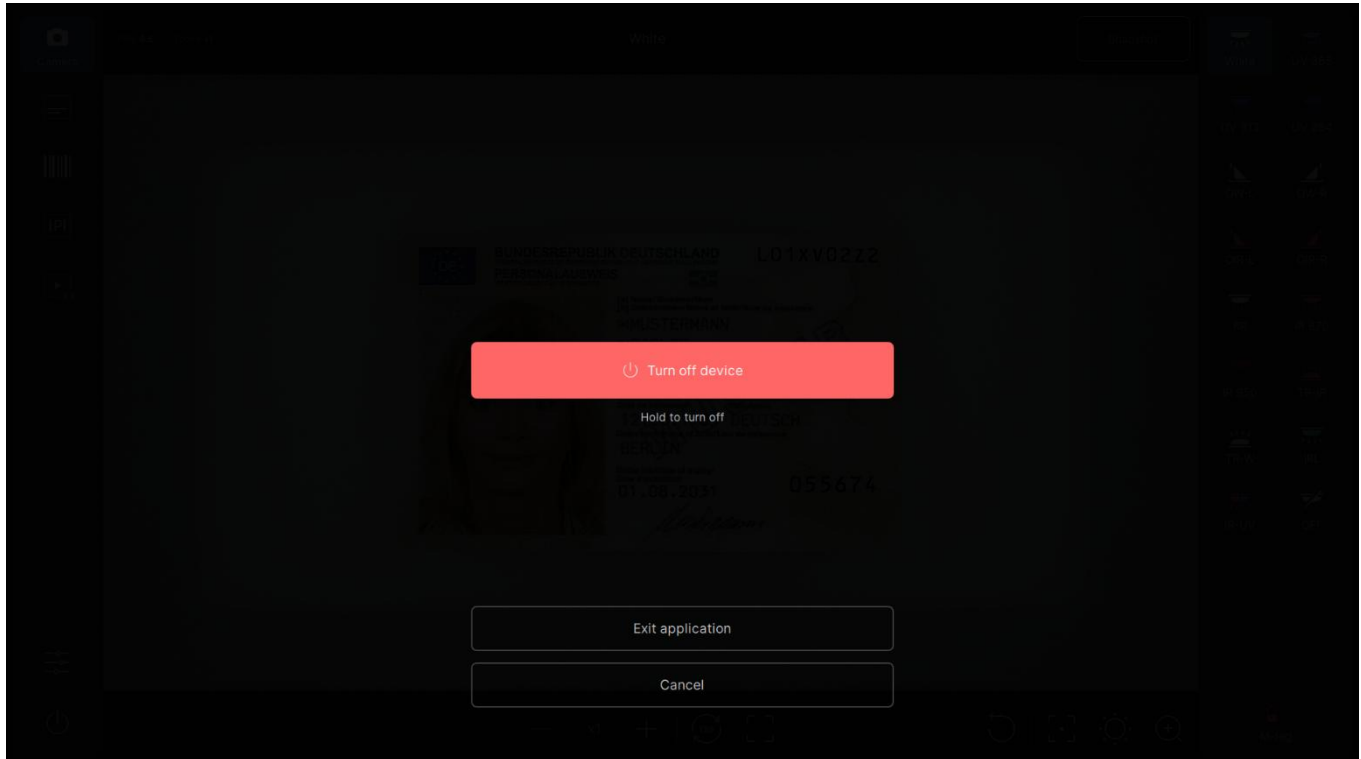
To switch off the light source, click the button. The active-mode indication should disappear from the monitor.

To activate a different light source, click the button for the required mode.

5.4 Shutting Down the Device

To exit the application or switch off the instrument, click the  button in the lower-left corner of the main screen.

In the opened window, select one of the following actions:



- **Turn off device** – click and hold the button to shut down the device.
- **Exit application** – click to exit the application without shutting down the device.
- **Cancel** – click to return to the application.