

DNP Photo Imaging Europe

# User Manual : Biometric Photos with SL+ v1.3

V 1.3

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## 1 LICENSE AGREEMENTS, TERMS & CONDITIONS

Please refer the original user manual of SnapLab Plus v1.8 for the following items:

- DS-Tmini Software Licensing Agreement
- Ownership Retained By Licensor
- Disclaimer of Warranties
- Limitation of Liability
- Governing Law
- Term
- Acknowledgments
- ICC Profiles

## 2.0 INTRODUCTION

**Photo Editing Software** is a software system to make Prints, Calendars, Prints with Frames of various sizes and Passport photos. The new feature of Photo Editing software allows the user to make biometric photos starting from the version 1.3.x, available only for the version activated with "Biometric License".



*Note:*

Any assistance regarding software upgrade, please contact our support team at: [Support@dnpphoto.eu](mailto:Support@dnpphoto.eu)

## 3.0 BIOMETRIC LICENSE

**Photo Editing Software** biometric feature requires license activation for each system. By default the system doesn't provide any information on license purchase, so feel free to contact your local dealer or your distributor or DNP PIE Sales department, [sales@dnpphoto.eu](mailto:sales@dnpphoto.eu)

### 3.1 BIOMETRIC LICENSE PURCHASE

After successful purchase of biometric license, the Photo Editing Software v1.3 can be activated to make it functional with Biometric feature.

The purchased biometric license should be 36 alpha numeric characters, For example:

**74A3-X1XA-4YFY-FXX5-1Y7Y-DY1Y-5YY6-DYXX-4X9X**



*Warning:* The above license code is just an example; it's not a real license code to try.

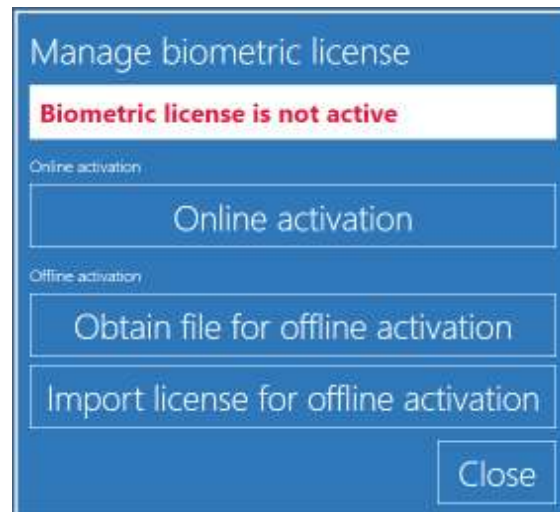
### 3.2 BIOMETRIC ACTIVATION PROCESS

By default the Photo Editing Software will display the following products even after the software upgrade.



The biometric feature can be activated by two methods:

- Online
- Offline



### 3.3 Where to find the biometric module?

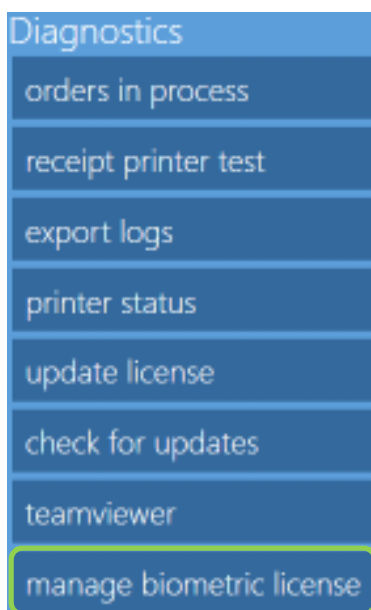
- 1) Enter into main panel by touching in sequence to the lower left and right corners of the monitor.



- 2) Click on **Diagnostics** button.



- 3) Click on **Diagnostics** button.



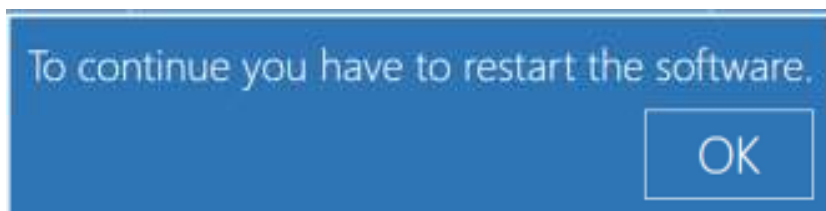
### 3.4 ONLINE ACTIVATION PROCESS

#### Instructions for Online Activation:

- Step 1:
  - Go to, Settings/Diagnostics/Manage Biometric License/Online-Activation.
    - The system requires internet connection for online activation
- Step 2:



- After entering the license code successfully, the software will prompt for confirmation.
- Step 3: Click on 'Ok' to restart the software



- Step 4: Biometric license is activated from the above step (4); the end user can enjoy the biometric features.



Help:

In case of any issue with the online activation, please contact our support team at [Support@dnpphoto.eu](mailto:Support@dnpphoto.eu) along with your DS-Tmini system serial number.

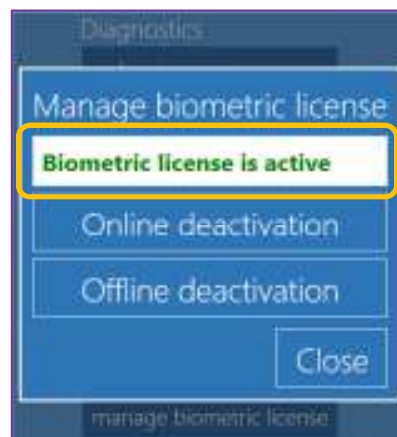


### 3.5 HOW TO VERIFY THE BIOMETRIC ACTIVATION STATUS?

- The Photo editing software will display the following screen along with Biometric photos after the successful activation of Biometric license:



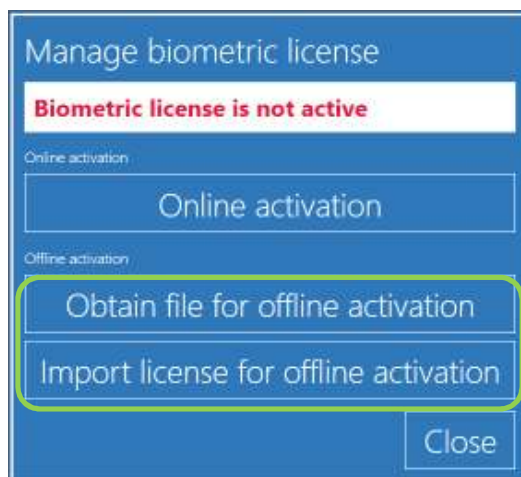
- Go to, Settings/Diagnostics/Manage Biometric License:



### 3.4 OFFLINE ACTIVATION PROCESS

To activate the Offline activation process easily, please contact our support team at:

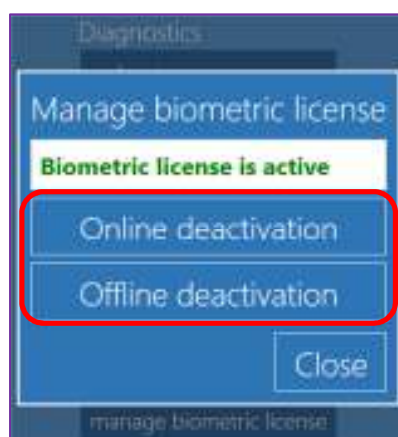
[support@dnpphoto.eu](mailto:support@dnpphoto.eu)



*Assistance:* Please contact our support team with the software version number along with the DS-Tmini system serial number & biometric license code.

### 3.4 ONLINE & OFFLINE DE-ACTIVATION PROCESS

The online de-activation and Offline de-activation process are strictly inbuilt for software support purpose in case of any issue with the software or with the hardware, so it's highly recommended not to touch these buttons.



*Warning:* Wrong usage of the above button controls will cause the biometric feature dysfunction. It may take 2-3 days to make it work in case of any issue with the license activation process.

## 4.0 BIOMETRIC PHOTOS

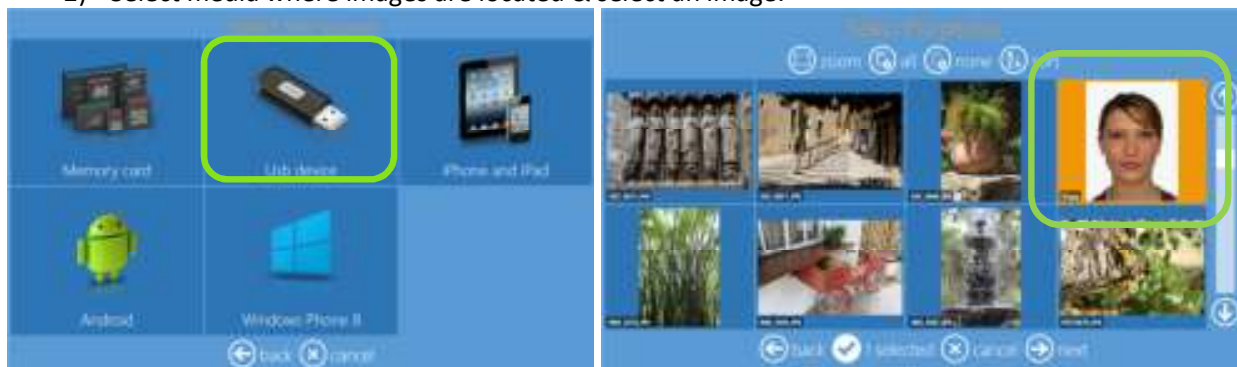
### 4.1 BIOMETRIC PASSPORT PHOTOS

The biometric feature can be applied on both passport & ID-Photo products.  
Let's see how we can create a biometric passport photo:

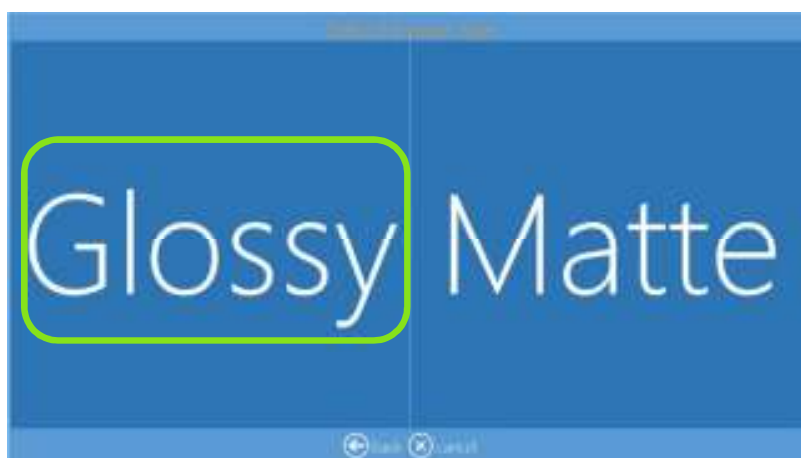
- 1) Select *Biometric Passport* & choose the final product:



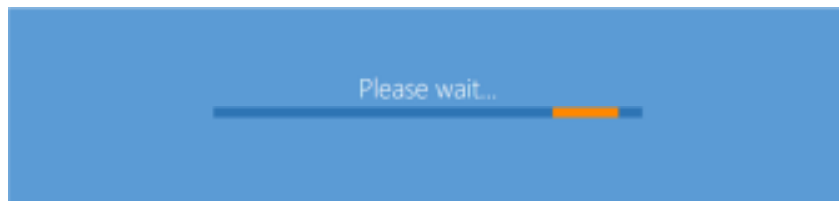
- 2) Select media where images are located & select an image:



- 3) Select paper finish type.



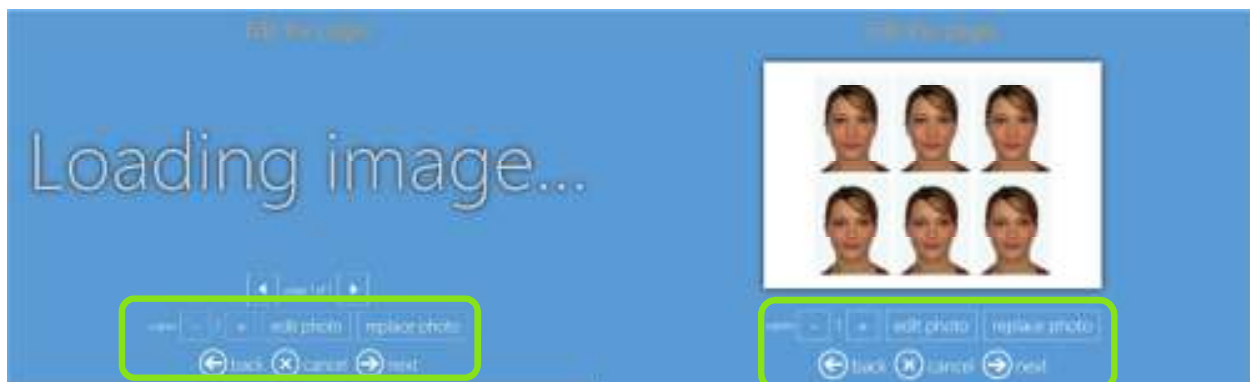
- 4) Please wait an instant until the software verifies the image with biometric values



- 5) The software will display the final biometric test result



- 6) Click on next button, to see the final product
- 7) To edit the photo click on 'Edit' and to change with another photo click on 'replace photo'.
- To increase the quantity by pressing "+" or "--" sign the print quantity can also be entered at this stage.



- 8) To edit photo, click on "edit photo" button
- a. Click on "Close" button after editing the image

The edit dialog provides the following options:

- ❖ Brightness
- ❖ Contrast
- ❖ Saturation
- ❖ Sharpen
- ❖ Red Eye Correction
- ❖ Fine Rotation
- ❖ Color Correction:
  - Red
  - Green
  - Blue
- ❖ Rotate
- ❖ Reset
- ❖ Original
- ❖ Levels
- ❖ Color(single click)



*Note:* After this section, the software will verify the biometric values again to validate the image.

9) Order summary.



*Note:* To add more products, click on add products button.

10) Insert Customer name & press enter



11) Press “next” to finish the order.

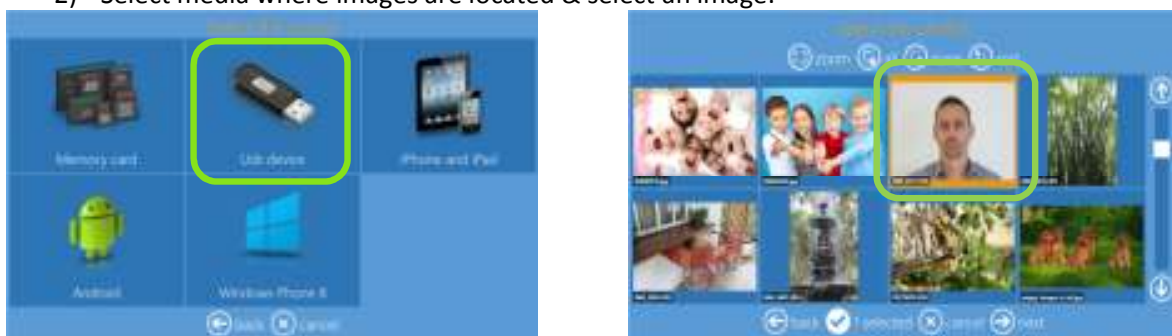
#### 4.2 Biometric All Countries

Let’s see how we can create a biometric Passport photo / iD-Photo can be done with “All Products” of Biometric Passport

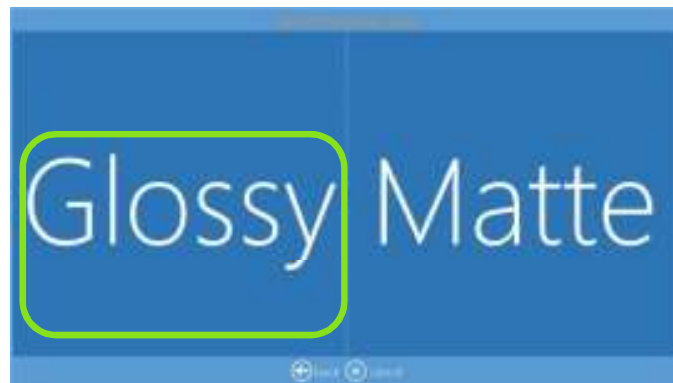
1) Select *Biometric Passport* & choose the final product:



2) Select media where images are located & select an image:



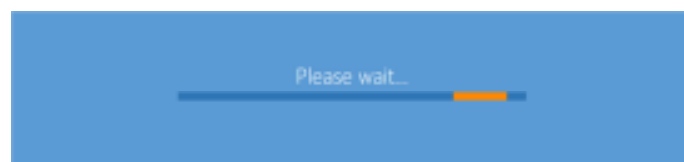
3) Select paper finish type.



4) Select the country & its product



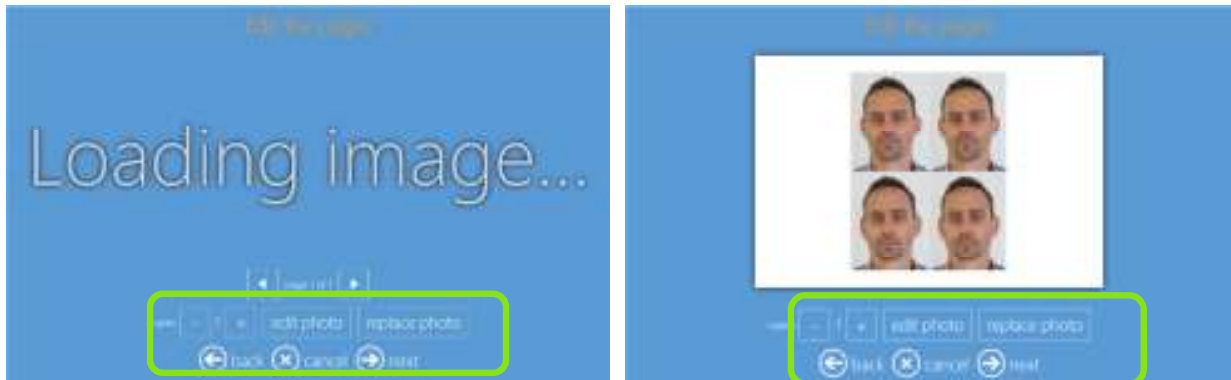
5) Please wait an instant until the software verifies the image with biometric values



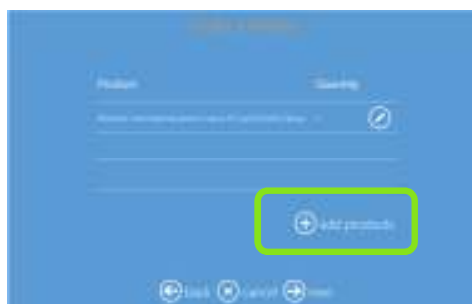
6) The software will display the final biometric test result



- 7) Click on next button, to see the final product
- 8) To edit the photo click on 'Edit' and to change with another photo click on 'replace photo'.
  - To increase the quantity by pressing "+" or "-" sign the print quantity can also be entered at this stage.



- 9) To edit photo, click on "edit photo" button
  - a. Click on "Close" button after editing the image
- 10) Order summary.



**Important:** To add more products, click on add products button.

- 11) Insert Customer name & press enter














- 12) Press "next" to finish the order.



#### 4.1 BIOMERIC DATA VALUES

The biometric function in the photo editing software will verify & validate the following constraints in the biometric passport product:

- |  |   |
|--|---|
|  Fit                          |  Rotation              |
|  Sharpness                    |  Background Color      |
|  Background Grayscale Density |  Background Uniformity |
|  Quality                      |  Glasses               |
|  Mouth Open                   |  Dark Glasses          |
|  Blink                        |   |

#### Description:

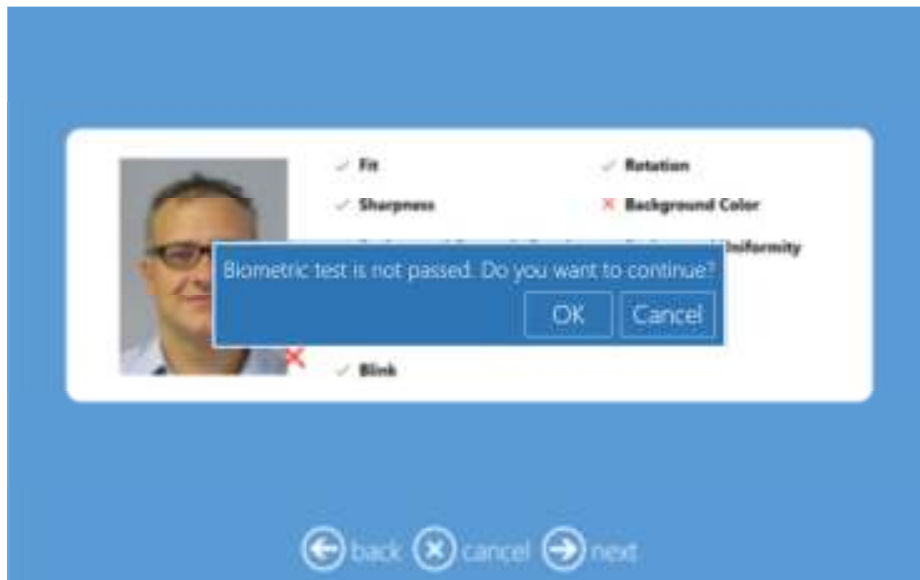
- ❖ Fit : To verify the head position of the image fit with its input value
- ❖ Sharpness : To verify the sharpness of the image
- ❖ Background Grayscale Density : To verify the gray scale density of the image
- ❖ Quality : To verify the image quality to make the final product
- ❖ Mouth Open: To verify the mouth status (Open, Smile)
- ❖ Blink : To verify the eye position status (Blink, Squint)
- ❖ Rotation : To verify the image rotation else the image will be rotated automatically
- ❖ Background uniformity: To verify the background uniformity (no shadows behind)
- ❖ Background Color: To verify the background color of the image
- ❖ Glasses: To verify the specs over the image (Precisely in the face)
- ❖ Dark Glasses: To verify the dark glass anywhere over the image (Precisely in Face / Head)

#### 4.2 BIOMETRIC EXCEPTIONS

There are some exceptions can be handled with the biometric photos, for example: Photo with Glasses



From the above input image, the biometric function detects the image has glasses (also detects background color is dark too). If the user would like to print the image, the user must click on next to confirm the acceptance:



*Warning:*

By clicking on "Ok" button that means, the end users accepts the image even the image is not qualified for the final product with the biometric test results

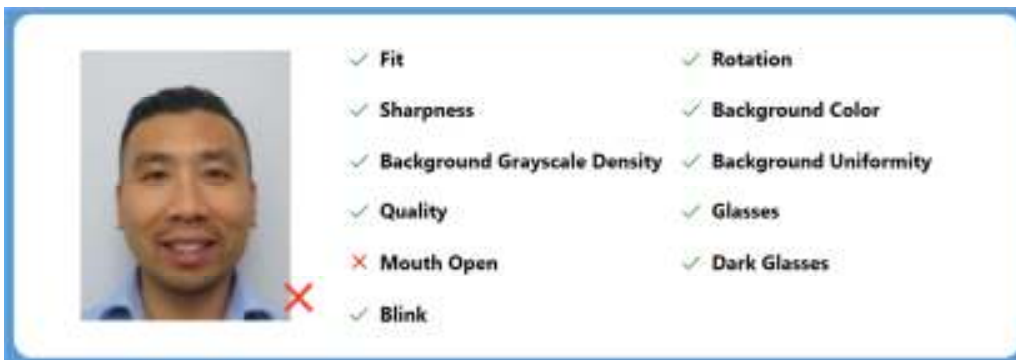
4.3 BIOMERIC VARIOUS TEST RESULTS

The biometric function validates the image based on the biometric input values and the final test result will be displayed. Let's see some of them:

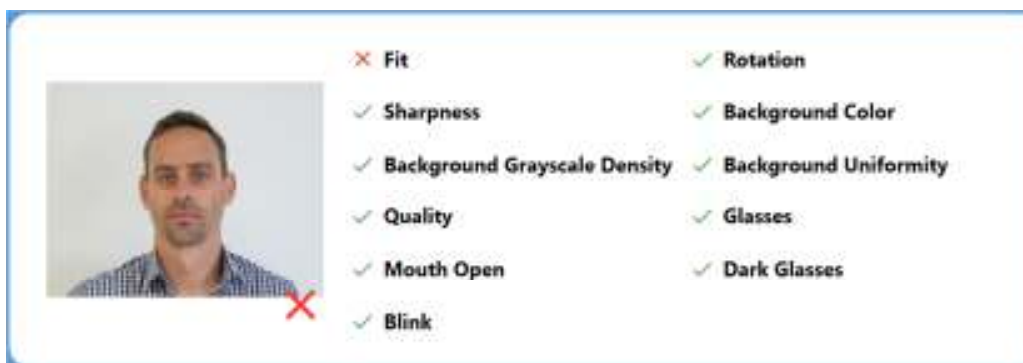
- ❖ The below failed to qualify in all the parameters



- ❖ The below image failed to quality with just one constraint : Mouth Open



- ❖ The below image failed to qualify with just one constraint: Head position doesn't fit



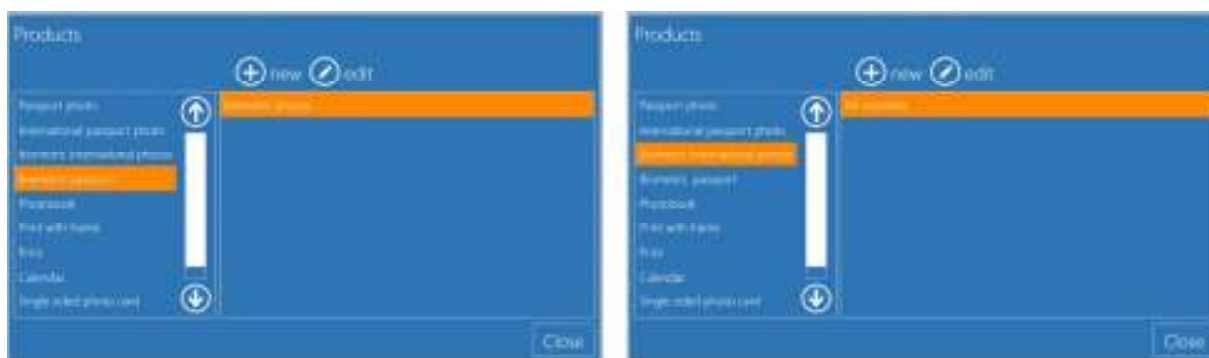
Note:

The background image color verification value is configurable. Please refer the admin section for configuration options.

## 5.0 BIOMETRIC PRODUCT ADMIN SETTINGS

There are two types of products are available for Biometric Passport:

1. Biometric Photos: Allows the operator to create various passport & ID photos with biometric verification.
2. Biometric International Photos: A list of countries with passport & ID-Photos requirements are predefined to make it easy of use.



### 5.1 BIOMERIC PHOTO PRODUCTS

Biometric Passport: Let's see how to create a new product under "Biometric Passport" section along with various admin settings.



*Important:* The operator can create any product under this category for ex: Passport / ID-Photo

#### 5.1.1 NEW BIOMERIC PASSPORT: How to add a new Biometric product?

Let's see to how to create a Passport photo for United Kingdom (for example)

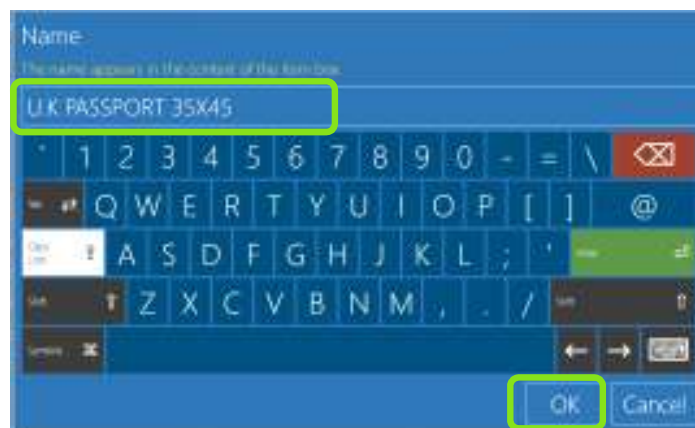
1. To create a new product, please click on the "new" button under "Biometric Passport"



2. Select "Biometric Passport" from the list & click on "Ok"



3. The Photo editing software will display the following options to create a new biometric product

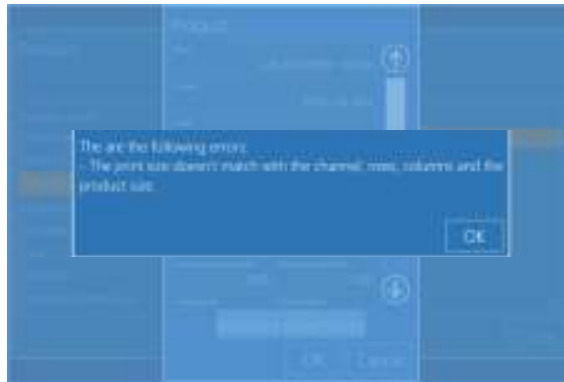


4. Give a name for the product, "U.K Passport 35x45" & click on "Ok"
5. Define the channel, select 10x15 size (if the metric size is cm else the size is 4x6)
  - ❖ Channel provides the option to select for which print size the product should be printed.



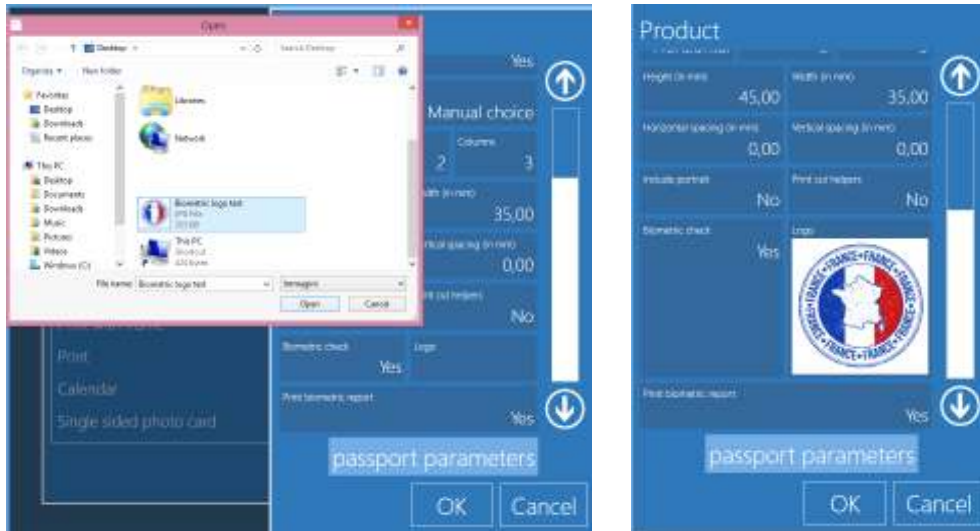
*Note:* To print the product in 6x8"/15x20cm, then select 15x20 size

6. Visible: Allows the operator to configure visibility "Yes" or "No"
  - ❖ Yes: By default it's "yes" when the software created a new product
  - ❖ No: To hide / de-activate the product then "No" must be selected
7. Paper Type: Allows the operator to configure the paper type "Glossy" or "Matt"
  - ❖ If the choice is not set, then manual type is a default selection which will allow the end-user to select their choice of paper finish type
8. Orientation: Allows the operator to configure the orientation "Horizontal" or "Vertical"
  - ❖ If the choice is not set, then "Horizontal" orientation is set to default
9. Rows and Cols: Allows the operator to configure the number of rows and columns of the image should be printed.
  - ❖ In this example: 35x45 print size is set to 2 rows & 3 columns with the total number of 6 images will be printed of the select print size (channel)
  - ❖ The number of rows & columns should be configured according to the product size (35x45) else the software will throw an error:



10. Horizontal and Vertical Spacing: Allows the operator to configure a space between each image on both H/V
- ❖ By default the value is 0
  - ❖ The values must be in mm (only integers)
11. Include Portrait: Allows the operator to include a portrait size of the input image
- ❖ By default the choice is “No”
  - ❖ When the choice is “yes”, a big size (50x50) portrait image will be printed on the final product but the number of target image will be reduced by the software to print the portrait image
12. Print Cut Helpers: Allows the operator to include a print cut helper line on each image of the final product
- ❖ By default the choice is “No”
13. Biometric Check: Allows the operator to include the “Biometric Check” on the configured product
- ❖ By default the choice is “Yes”
  - ❖ If the choice is “No” the software won’t apply any biometric verification even if the product listed under “Biometric Products”
14. Logo: Allows the operator to include a logo on the final print product
- ❖ Usage of logo will occupy one column of the configured column

Horizontal spacing (in mm)	Vertical spacing (in mm)
2,00	2,00



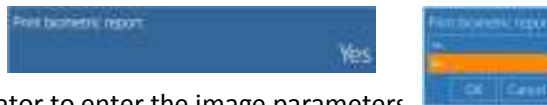
1. Applying a logo on the image is under the risk of the operator. The software doesn't take any responsibility.
2. Any image type of the logo accepted by the software. For better performance & visual, **.PNG/.JPG is recommended**



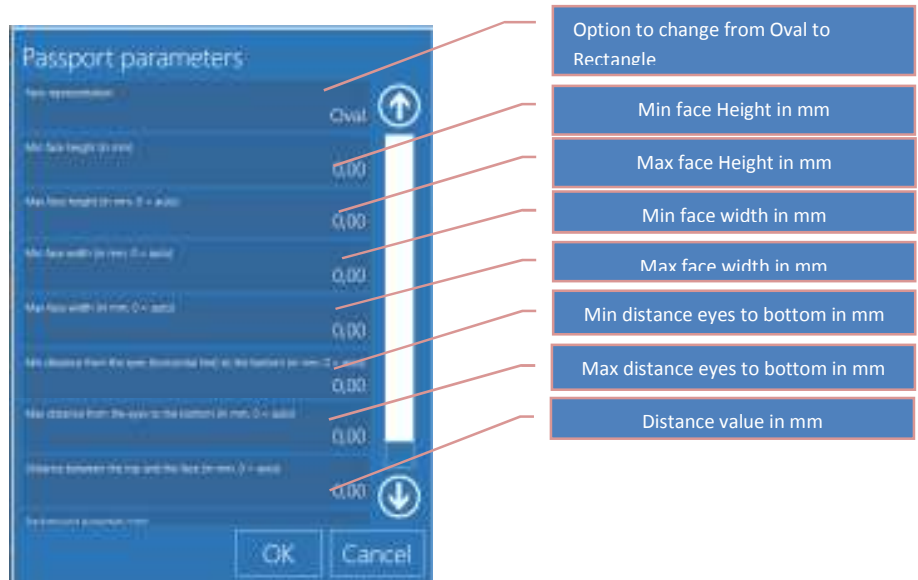
*Important:*

15. Print Biometric Report: Allows the operator to include the biometric test result report to be printed along with the final product

- ❖ By default the choice is "No"

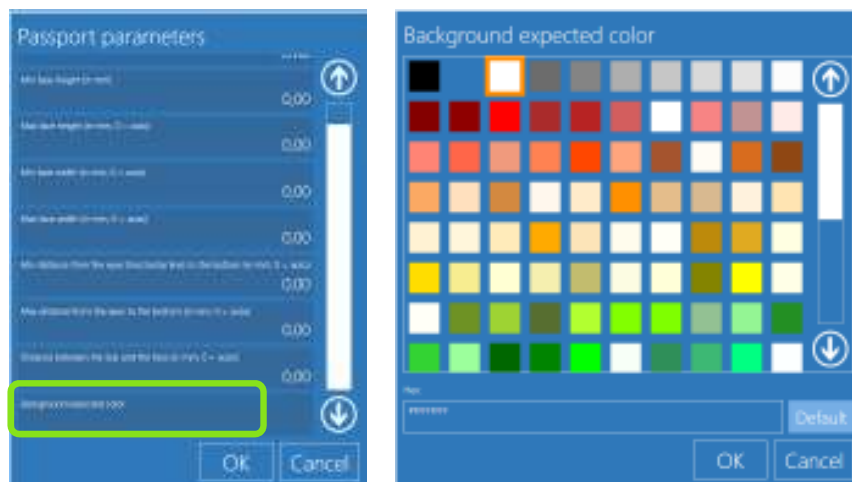


16. Passport Parameters: Allows the operator to enter the image parameters for the image.



- ❖ Background Color: Allows the operator to specify the background color of the image
  - i. By default the software is configured with "White" color with some tolerance





### 5.1.2 Biometric U.K Passport Photo

It's time to see the final product in the photo editing software.

1. Go back to the main interface i.e. product category section
2. Select "U.K Passport Photo 35x45" product under "Biometric Passport"



3. Select an image & wait to see the final product
  - a. Note: We skipped some steps to see the final product (we can see the print cut helper line & the logo on the corner of the print)



## 5.2 BIOMERIC INTERNATIONAL PHOTOS

The product “Biometric International Photos” is a preconfigured list of countries for both passport & ID-photo prints.



*Warning:*

The operator not recommend to create a product under “Biometric International Photos” instead a new product must be created under “Biometric Passport” .

### 5.2.1 List of available countries

The below list are the available countries for the product “Biometric International Photos”:

Country	Document Type	Width	Height	Country	Document Type	Width	Height
Albania	Passport	40	50	Jamaica	Passport	65	65
Algeria	ID Card	35	45	Japan	ID Card	35	45
Argentina	Passport	40	40	Korea	ID Card	35	45
Austria	ID Card	35	45	Latvia	Passport	35	45
Belarus	Passport	35	45	Lithuania	ID Card	40	60
Belgium	ID Card	35	45	Luxembourg	ID Card	35	45
Bosnia	Passport	35	45	Macedonia	Passport	35	45
Brazil	Passport	35	45	Mexico	Passport/Visa	35	45
Brazil	Visa	50	50	Morocco	ID Card	35	45
Bulgaria	ID Card	35	45	Nederland	ID Card	35	45
Canada	Passport	50	70	New Zealand	ID Card	35	45
Chile	Passport	45	45	Nicaragua	Passport/Visa	52	52
Chile	Visa	52	52	Norway	ID Card	35	45
China	ID Card	33	48	Panama	Passport/Visa	52	52
Colombia	Passport	38	64	Paraguay	Passport/Visa	50	70
Colombia	Visa	52	52	Peru	Passport	52	52
Costa Rica	Passport/Visa	52	52	Philippines	ID Card	35	45
Croatia	ID Card	35	45	Philippines	ID Card	35	45
Cuba	Passport/Visa	40	45	Poland	ID Card	35	45
Czech	ID Card	35	45	Portugal	ID Card	35	45
Denmark	ID Card	35	45	Romania	ID Card	35	45
Dominican R	Passport	52	52	Russia	Passport	35	45
Dominican R	Visa	52	52	Serbia	Passport	35	45
Ecuador	Passport/Visa	52	52	Singapore	ID Card	35	45
Estonia	ID Card	40	50	Slovenia	ID Card	35	45
Finland	ID Card	36	47	South Africa	ID Card	35	45
France	ID Card	35	45	Spain	ID Card	35	45
French Guian	Passport/Visa	52	52	Spain	Passport	35	45
Germany	ID Card	35	45	Sri lanka	ID Card	35	45
Greece	ID Card	35	45	Suriname	Passport/Visa	52	52
Greece	Passport	40	60	Sweden	ID Card	35	45
Guatemala	Passport/Visa	52	52	Switzerland	ID Card	35	45
Guyana	Passport/Visa	52	52	Tunisie	Passport	35	45
Haiti	Passport/Visa	52	52	Turkey	ID Card	50	60
Hong Kong	ID Card	40	50	Ukraine	Passport	35	45
Hungary	ID Card	35	45	Ukraine	VISA	35	45
Iceland	ID Card	35	45	United Kingd	ID Card	35	45
India	Visa	50	50	United State	Immigrant Visa	35	40
Indonesia	ID Card	35	45	United State	Passport	50	50
Ireland	ID Card	35	45	Uruguay	Passport/Visa	52	52
Italy	Carta d'identità	35	45	Venezuela	Passport	30	40
Italy	Passaporto	40	40				



*Assistance:*

If your favorite/required country is not in the list, please contact our support team: [sales@dnpphoto.eu](mailto:sales@dnpphoto.eu) to get updated.

## 6.0 EDITING AND PRICING

## 6.1 EDIT A PRODUCT

To edit an existing product or a created a product, click on the “edit” after selecting a “Biometric Passport” product.

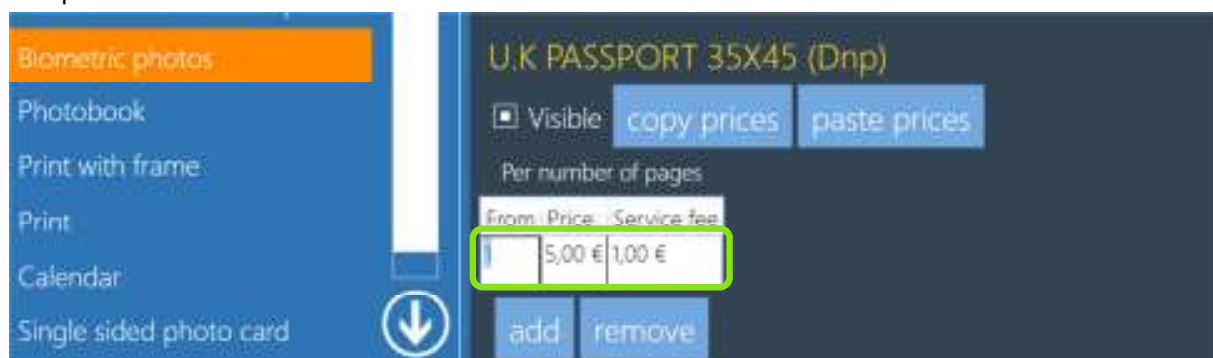


*Warning:* It's not recommended to edit “Biometric International Photos” product

## 6.2 Biometric Photo Pricing

To add a pricing to a product, go to Settings/Products/Prices.

Select a product to give a pricing, in this example; we select the biometric photo product of “U.K Passport Photo 35x45”:



- After entering the price & service, please click on “add” button to give the pricing.

## 7.0 SUPPORT

For any questions, feedback, technical assistance, please contact our support team at:

[support@dnpphoto.eu](mailto:support@dnpphoto.eu)