PhotoWall

v 1.1.19

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In case you have a license, the program's work is not limited, but a watermark is added to the photos.

System requirements

Compatibility: Windows 7 x64, 8.1 x64, 10 x64.

Recommended computer: Intel i5 (8th Gen and above), i7 (4 or more cores), SSD, at least 8GB of RAM.

Required software:

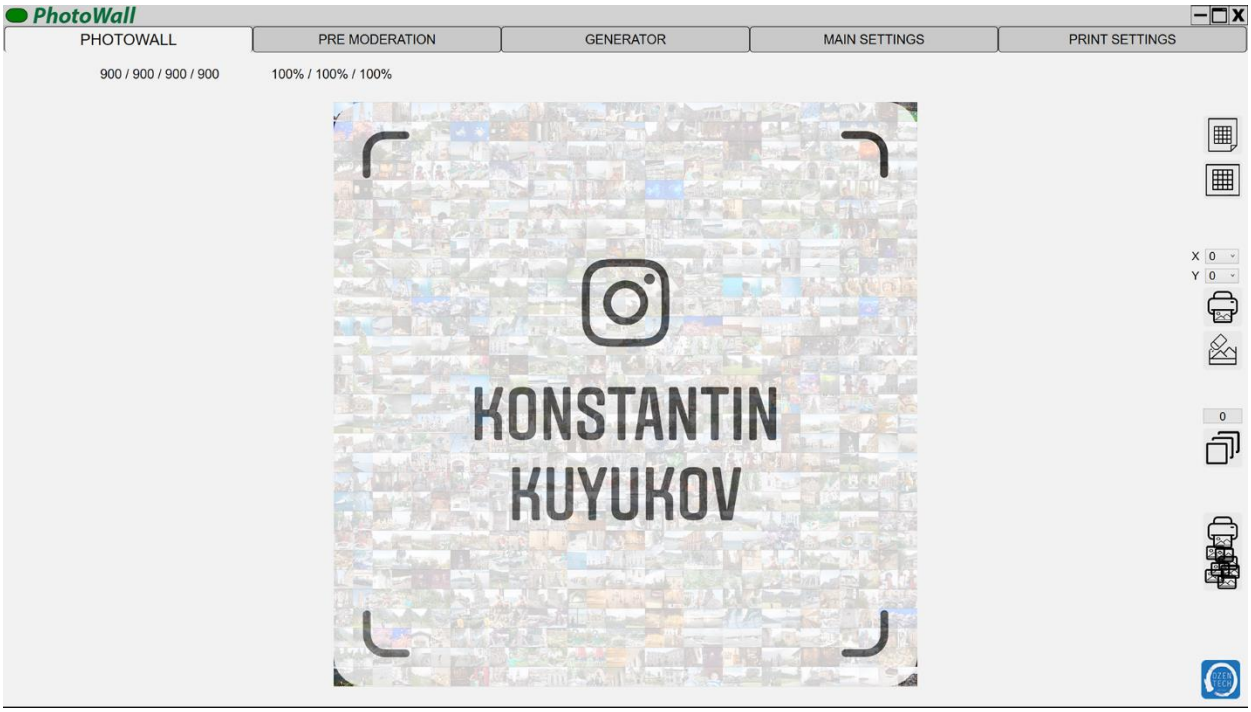
1. .NET Framework 4.7.2. https://dotnet.microsoft.com/download/dotnet-framework-runtime

Additional software (may need to be installed):

1. Microsoft Visual C ++ 2015 Update 3 redistributable component (both x86 and x64 versions): https://www.microsoft.com/en-us/download/details.aspx?id=53587

Description of the program interface

Main window (photo wall)



This window displays the current status of the photo wall.

Photos that have been downloaded and processed are displayed in gray.

Photos that were sent to print are displayed in full-color version with superimposed graphics.

If printing or the use of black and white cells is disabled, then the photos are immediately displayed in full color.

When you click on a photo with the left mouse button while holding down the Shift key, it is sent again to print.

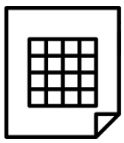
When you click on a photo with the right mouse button while pressing the Shift key, it is deleted.

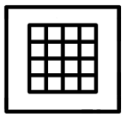
Indicators:

• Green - Waiting. The wall is either not running or is already fully printed.

• White - The wall is being filled.

The readiness indicator consists of 4 sections: processed / distributed / added to the queue / total necessary.

 - export the finished wall to a file for printing (full resolution up to 23K)

 - export previews of the finished wall (monitor resolution)

- reprint cell

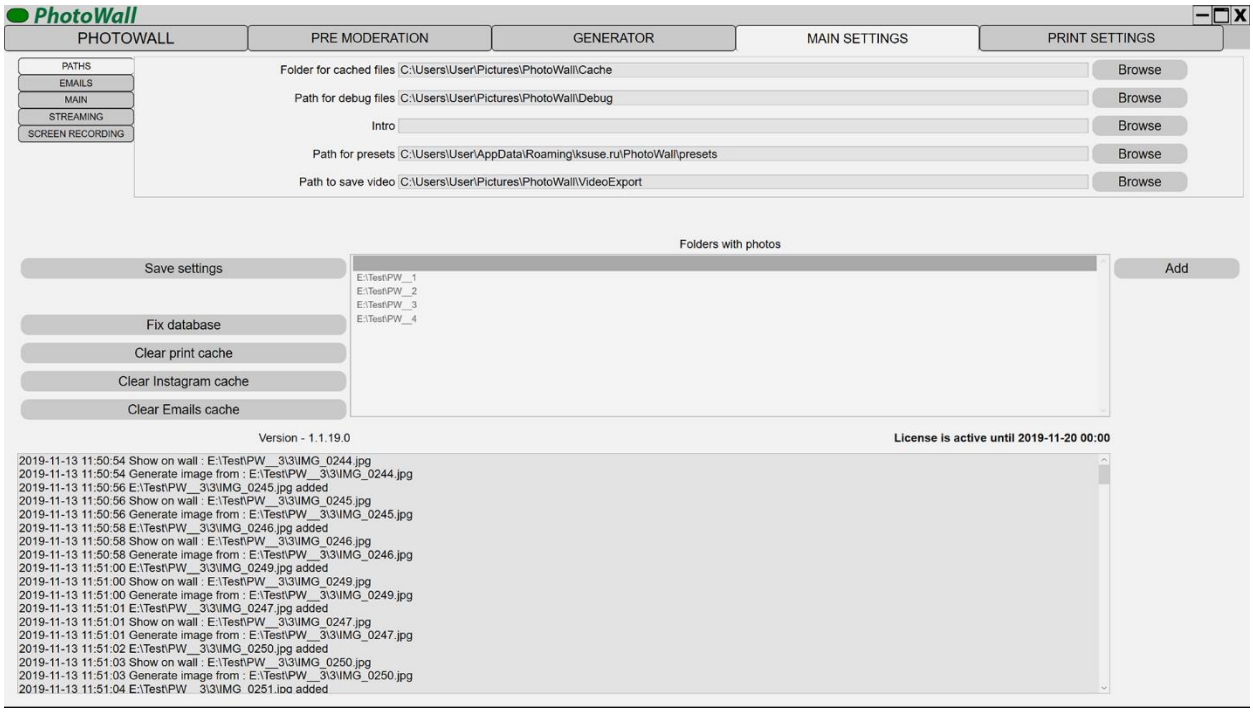
- cell replacement

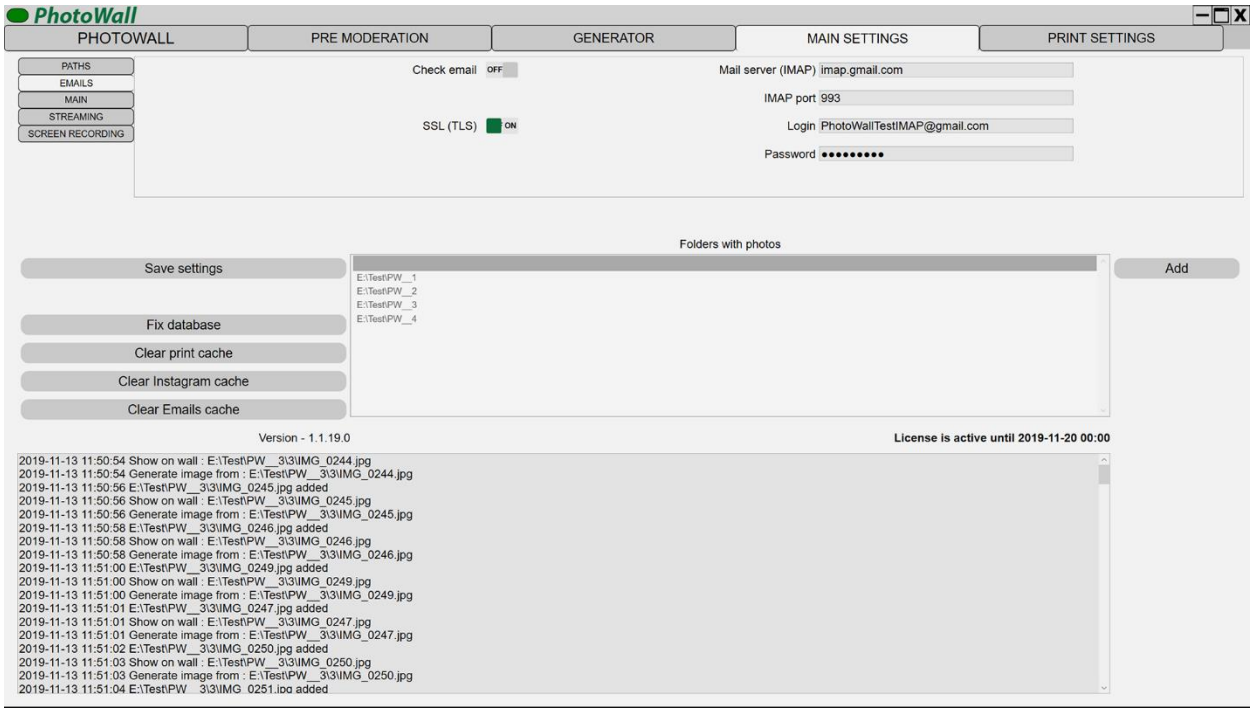
- fill the wall with duplicates

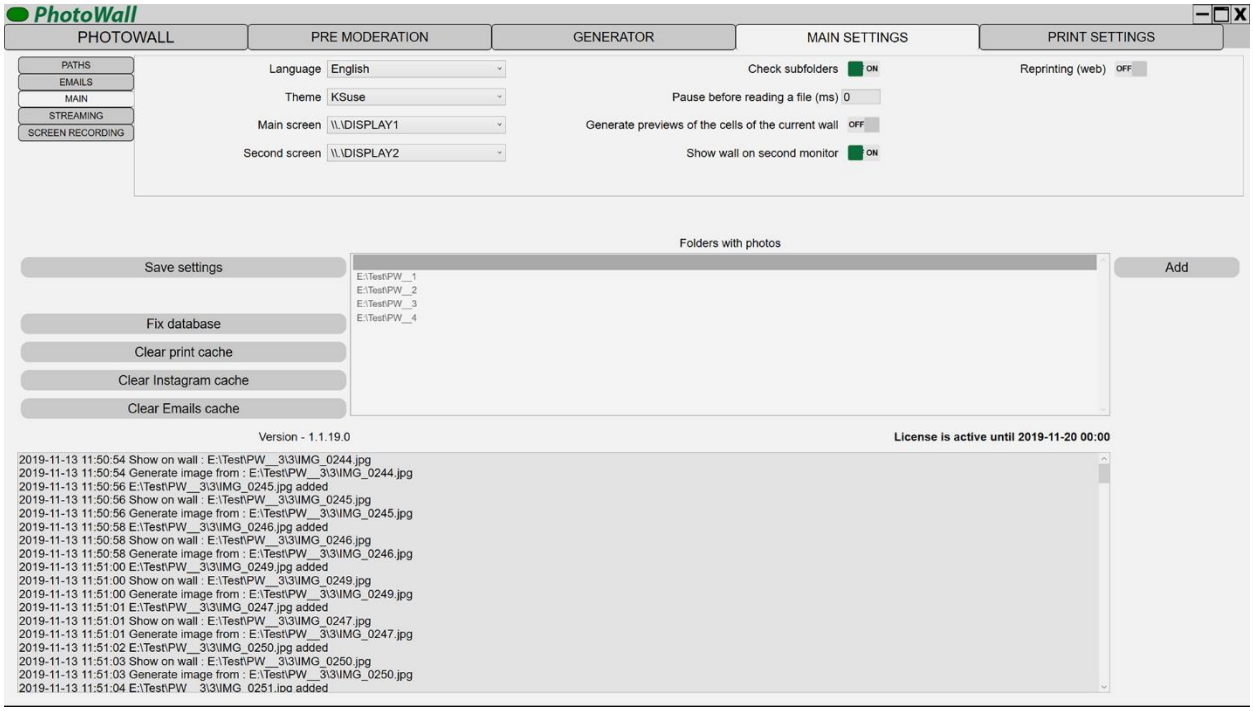
If the quantity is not specified or equal to 0, then full filling is performed, otherwise the specified number of takes is created.

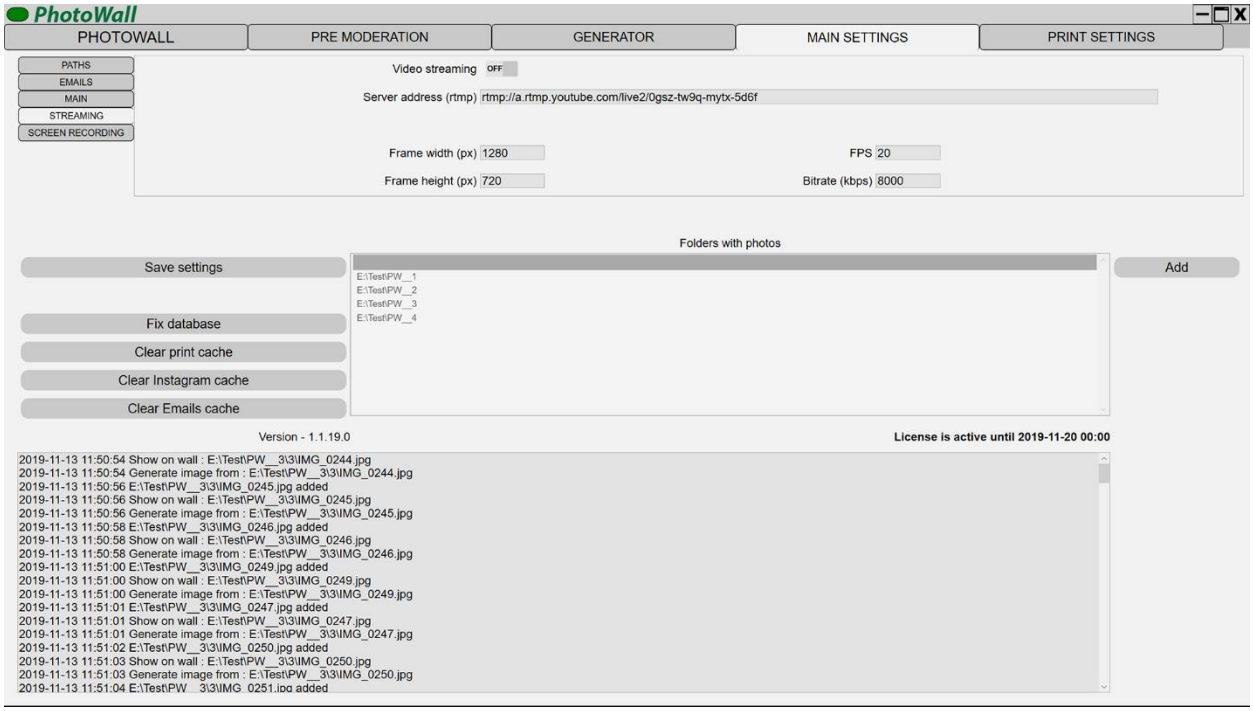
- print all photos (delayed printing)

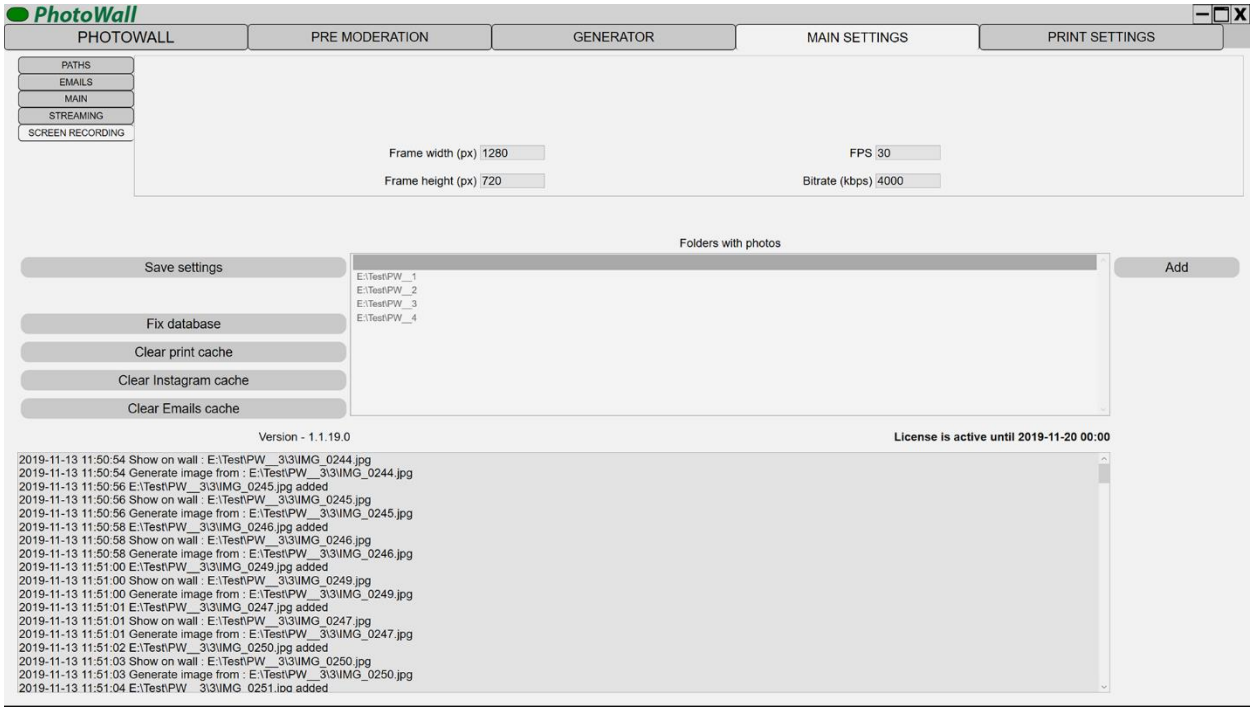
Main settings window






PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
PATHS
EMAILS
MAIN
STREAMING
SCREEN RECORDING
Language English
Theme KSuse
Main screen \\.\DISPLAY1
Second screen \\.\DISPLAY2
Check subfolders ON
Pause before reading a file (ms) 0
Generate previews of the cells of the current wall OFF
Show wall on second monitor ON
Reprinting (web) OFF
Folders with photos
Save settings
Add
E:\Test\PW__1
E:\Test\PW__2
E:\Test\PW__3
E:\Test\PW__4
Fix database
Clear print cache
Clear Instagram cache
Clear Emails cache
Version - 1.1.19.0
License is active until 2019-11-20 00:00
2019-11-13 11:50:54 Show on wall : E:\Test\PW__3\3\IMG_0244.jpg
2019-11-13 11:50:54 Generate image from : E:\Test\PW__3\3\IMG_0244.jpg
2019-11-13 11:50:56 E:\Test\PW__3\3\IMG_0245.jpg added
2019-11-13 11:50:56 Show on wall : E:\Test\PW__3\3\IMG_0245.jpg
2019-11-13 11:50:56 Generate image from : E:\Test\PW__3\3\IMG_0245.jpg
2019-11-13 11:50:58 E:\Test\PW__3\3\IMG_0246.jpg added
2019-11-13 11:50:58 Show on wall : E:\Test\PW__3\3\IMG_0246.jpg
2019-11-13 11:50:58 Generate image from : E:\Test\PW__3\3\IMG_0246.jpg
2019-11-13 11:51:00 E:\Test\PW__3\3\IMG_0249.jpg added
2019-11-13 11:51:00 Show on wall : E:\Test\PW__3\3\IMG_0249.jpg
2019-11-13 11:51:00 Generate image from : E:\Test\PW__3\3\IMG_0249.jpg
2019-11-13 11:51:01 E:\Test\PW__3\3\IMG_0247.jpg added
2019-11-13 11:51:01 Show on wall : E:\Test\PW__3\3\IMG_0247.jpg
2019-11-13 11:51:01 Generate image from : E:\Test\PW__3\3\IMG_0247.jpg
2019-11-13 11:51:02 E:\Test\PW__3\3\IMG_0250.jpg added
2019-11-13 11:51:03 Show on wall : E:\Test\PW__3\3\IMG_0250.jpg
2019-11-13 11:51:03 Generate image from : E:\Test\PW__3\3\IMG_0250.jpg
2019-11-13 11:51:04 E:\Test\PW__3\3\IMG_0251.jpg added


PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
PATHS
EMAILS
MAIN
STREAMING
SCREEN RECORDING
Video streaming OFF
Server address (rtmp) rtmp://a.rtmp.youtube.com/live2/0gsz-tw9q-mytx-5d6f
Frame width (px) 1280
Frame height (px) 720
FPS 20
Bitrate (kbps) 8000
Folders with photos
Save settings
Add
E:\Test\PW__1
E:\Test\PW__2
E:\Test\PW__3
E:\Test\PW__4
Fix database
Clear print cache
Clear Instagram cache
Clear Emails cache
Version - 1.1.19.0
License is active until 2019-11-20 00:00
2019-11-13 11:50:54 Show on wall : E:\Test\PW__3\3\IMG_0244.jpg
2019-11-13 11:50:54 Generate image from : E:\Test\PW__3\3\IMG_0244.jpg
2019-11-13 11:50:56 E:\Test\PW__3\3\IMG_0245.jpg added
2019-11-13 11:50:56 Show on wall : E:\Test\PW__3\3\IMG_0245.jpg
2019-11-13 11:50:56 Generate image from : E:\Test\PW__3\3\IMG_0245.jpg
2019-11-13 11:50:58 E:\Test\PW__3\3\IMG_0246.jpg added
2019-11-13 11:50:58 Show on wall : E:\Test\PW__3\3\IMG_0246.jpg
2019-11-13 11:50:58 Generate image from : E:\Test\PW__3\3\IMG_0246.jpg
2019-11-13 11:51:00 E:\Test\PW__3\3\IMG_0249.jpg added
2019-11-13 11:51:00 Show on wall : E:\Test\PW__3\3\IMG_0249.jpg
2019-11-13 11:51:00 Generate image from : E:\Test\PW__3\3\IMG_0249.jpg
2019-11-13 11:51:01 E:\Test\PW__3\3\IMG_0247.jpg added
2019-11-13 11:51:01 Show on wall : E:\Test\PW__3\3\IMG_0247.jpg
2019-11-13 11:51:01 Generate image from : E:\Test\PW__3\3\IMG_0247.jpg
2019-11-13 11:51:02 E:\Test\PW__3\3\IMG_0250.jpg added
2019-11-13 11:51:03 Show on wall : E:\Test\PW__3\3\IMG_0250.jpg
2019-11-13 11:51:03 Generate image from : E:\Test\PW__3\3\IMG_0250.jpg
2019-11-13 11:51:04 E:\Test\PW__3\3\IMG_0251.jpg added



Attention! Settings cannot be saved if you currently have a wall in the “Start” status!

The license is automatically extended for 7 days (by defaults) when you start the program if you have an Internet connection.

In this window, you can select the interface language, color theme, folders for save cached data (downloaded photos, previews for photo wall, printed photos) and for debug files.

After changing the parameters, you must save the settings by clicking on the "Save Settings" button!

The “Add” button is used to add folders to the folders list. To delete a folder from the list, select it in the list and press the Delete key on the keyboard.

After changing the list of monitored folders, it is recommended to restart the program.

Photos added to the monitored folders (including subfolders) automatically fall on the photo wall.

You can pause between detecting photos and adding them to the processing queue, which will prevent the addition of temporary files.

The program can check the mailbox specified in the settings and download all photos from the attachments to letters and photos added to the body of the letter.

The button "Clear cache" deletes cells.

The button "Clear Instagram Cache" deletes all photos downloaded from Instagram.

The "Fix database" button cleans the database from duplicates.

You can enable the search for photos in subfolders in the directories selected for the search.

When the option “Generate preview of cells of the current wall” is enabled, a preview of the cells of the current wall with the file names X_Y.png is created in the Cell2 folder

Using the “Main Screen” and “Second Screen” options, you can redirect application windows to other displays.

When the option to show the wall on the second monitor is turned on, the photo wall is also displayed on it.

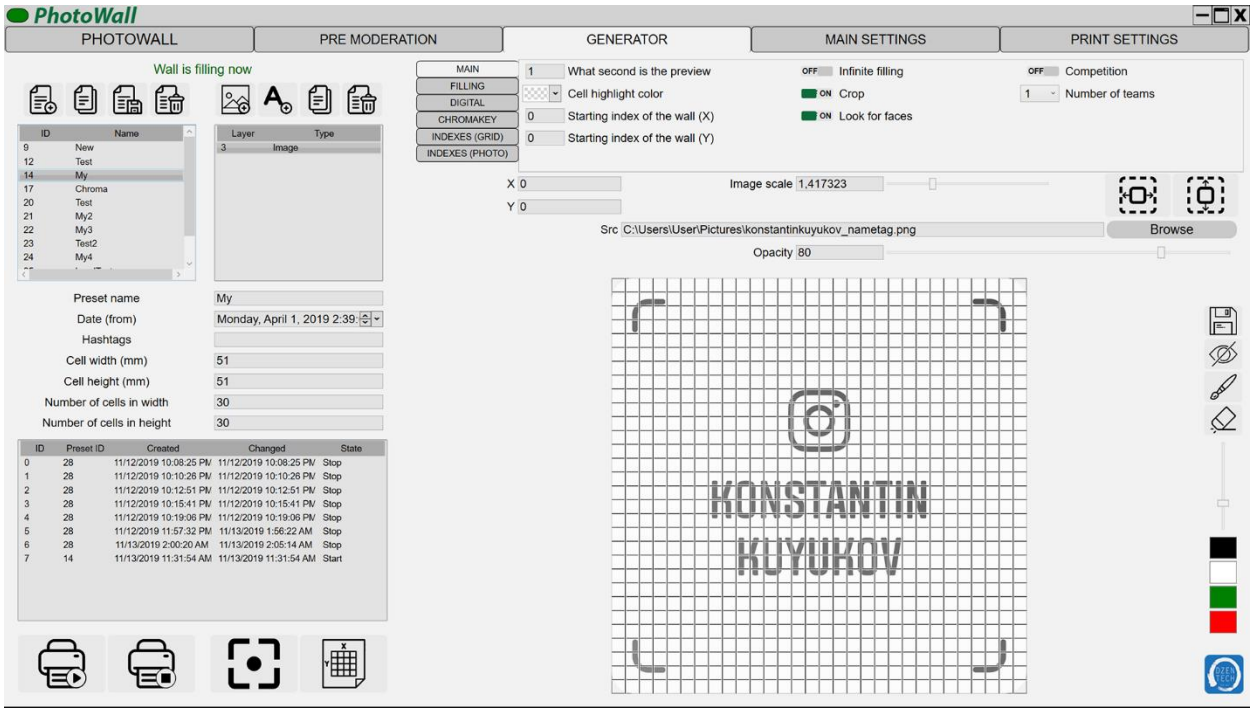
It is possible to broadcast the contents of the second window to the rtmp server and record in mp4.

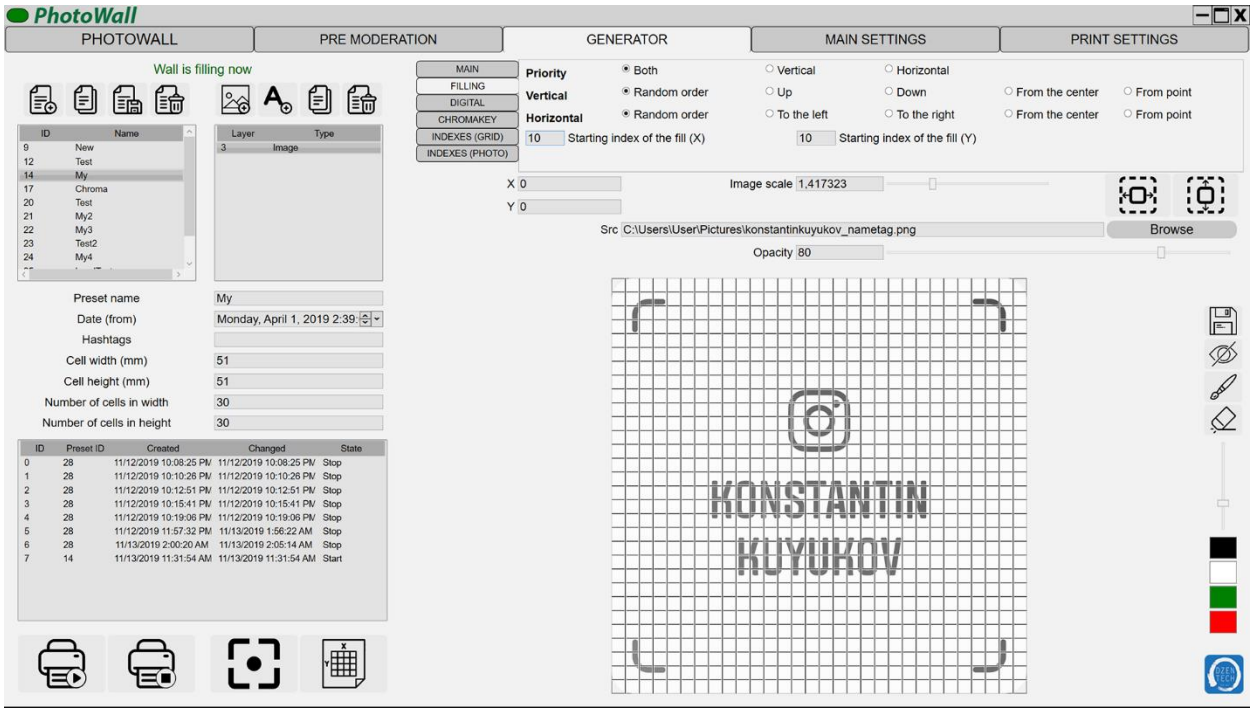
Attention! Broadcasting and recording are carried out only when displaying on the second monitor is turned on and the encoding settings are entered. The second window may be behind the first. It is important that it was not minimized.

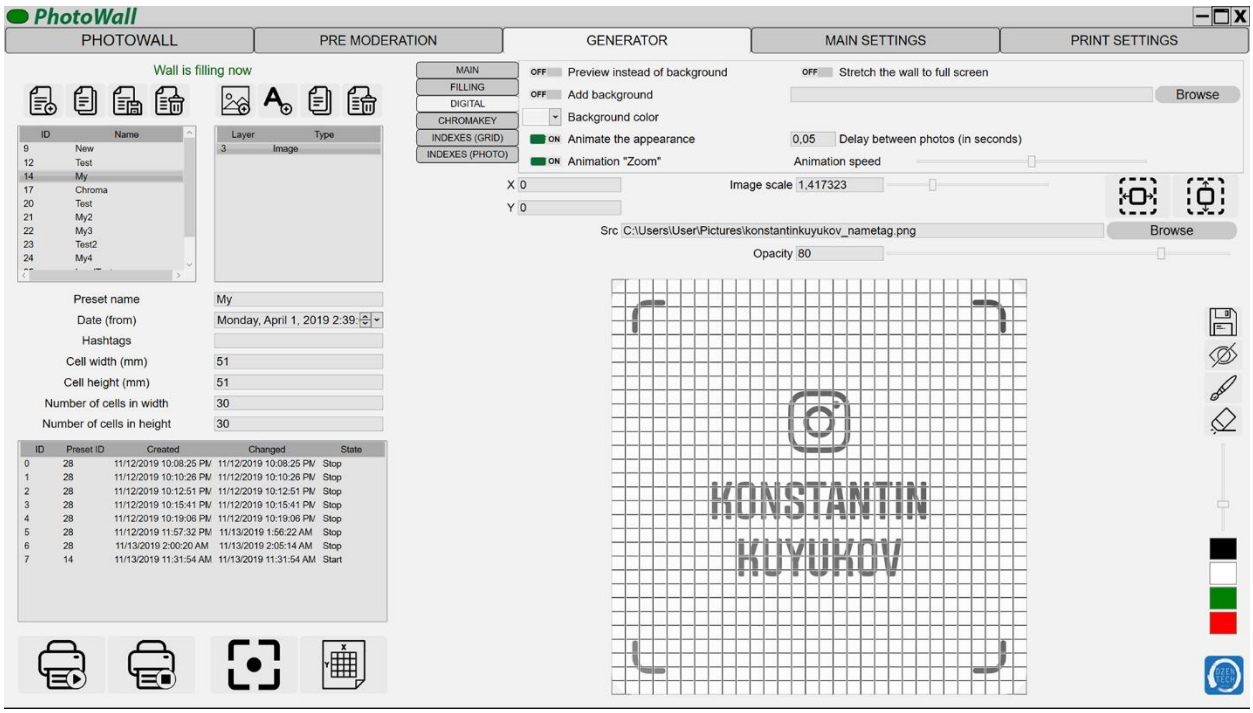
Add interface language

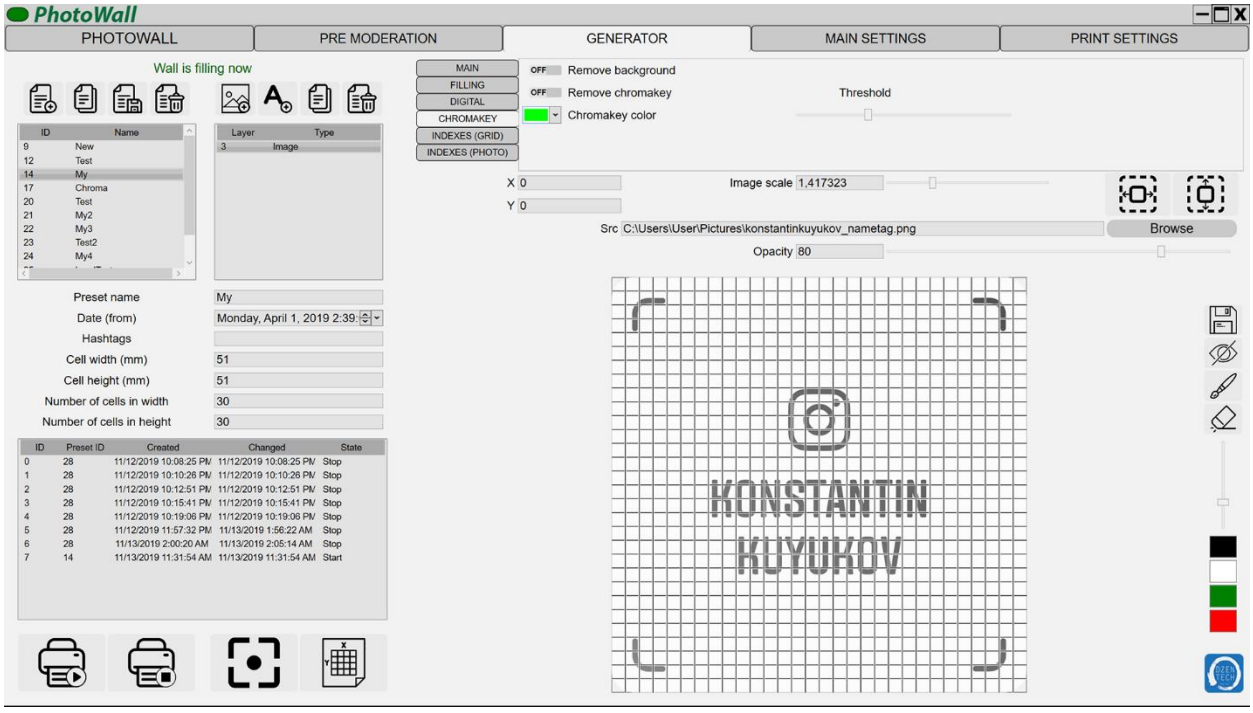
1. Create a copy of C:\Program Files\ksuse.ru\PhotoWall\lang\en.xaml
2. Rename the copy to the two-letter designation corresponding to the new language, for example, ru.xaml
3. Add a new language to the new line in langs.txt in the format designation=name, for example, ru=Russian

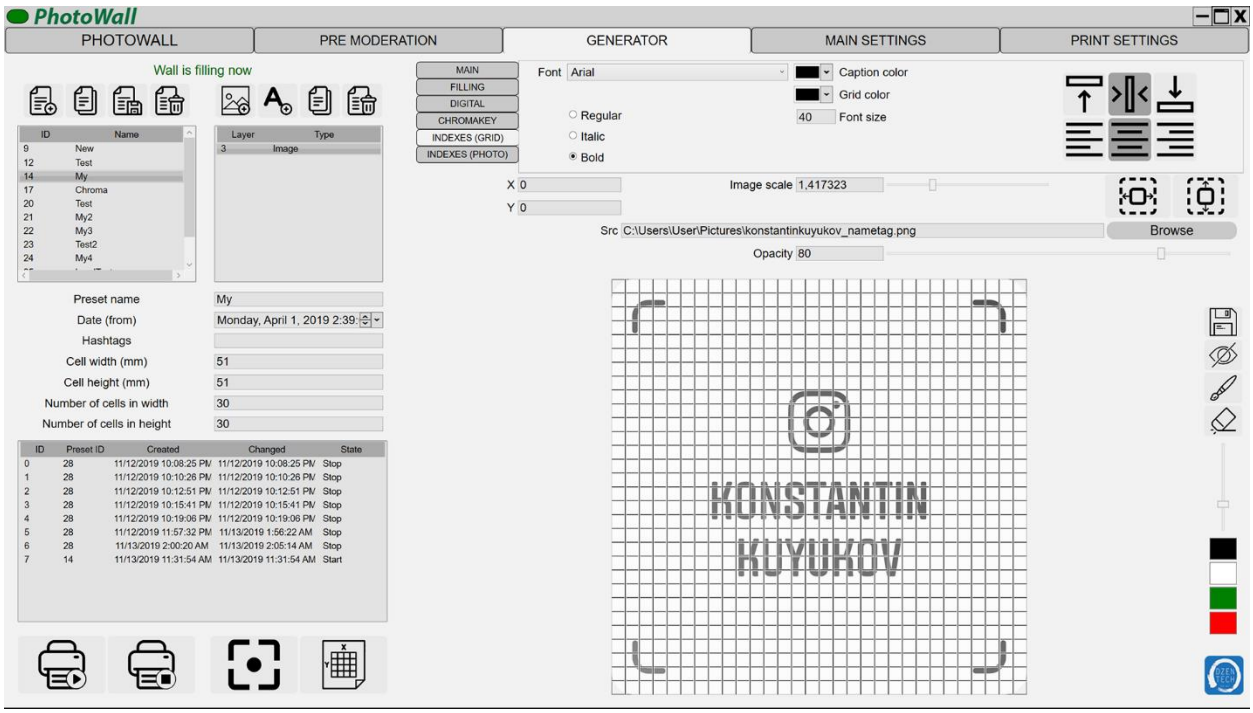
Generator

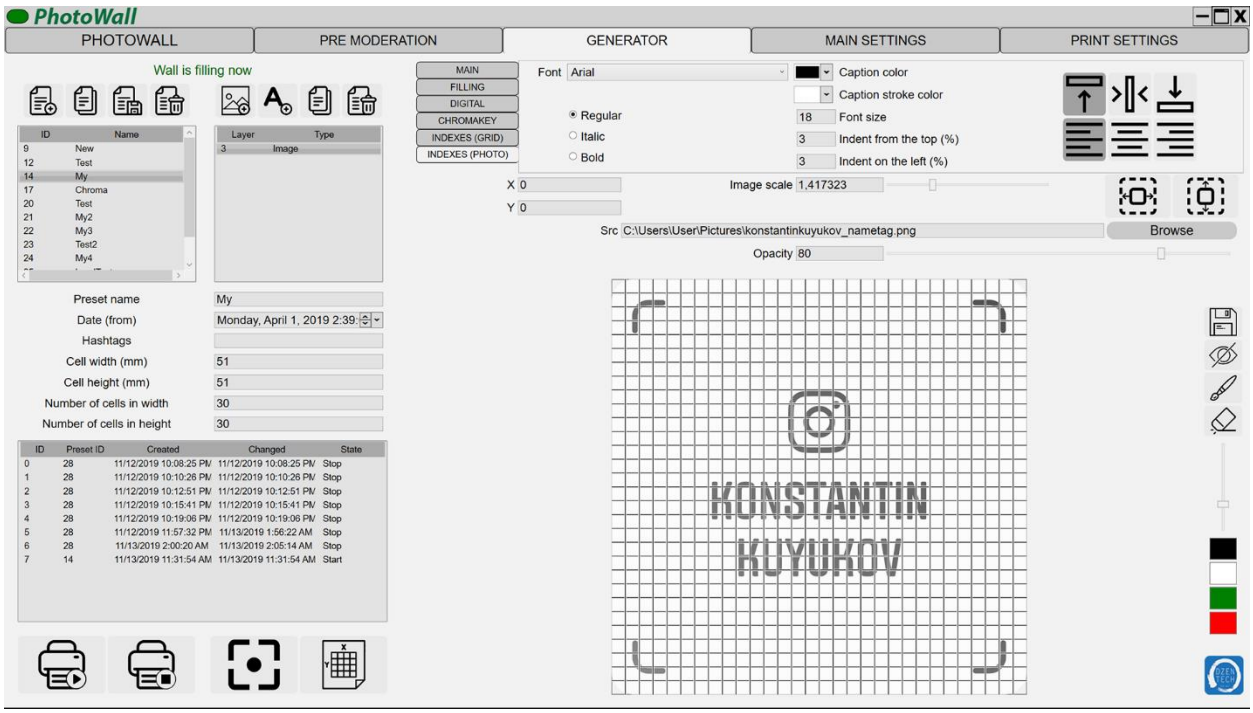

PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
Wall is filling now
MAIN
FILLING
DIGITAL
CHROMAKEY
INDEXES (GRID)
INDEXES (PHOTO)
What second is the preview
Cell highlight color
Starting index of the wall (X)
Starting index of the wall (Y)
Infinite filling
Crop
Look for faces
Competition
Number of teams
Image scale
Src C:\Users\User\Pictures\konstantinkuyukov_nametag.png
Browse
Opacity
Preset name
Date (from)
Hashtags
Cell width (mm)
Cell height (mm)
Number of cells in width
Number of cells in height
KONSTANTIN
KUYUKOV


PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
Wall is filling now
MAIN
FILLING
DIGITAL
CHROMAKEY
INDEXES (GRID)
INDEXES (PHOTO)
Priority
Vertical
Horizontal
Both
Random order
Up
Down
To the left
To the right
From the center
From point
Starting index of the fill (X)
Starting index of the fill (Y)
Image scale
Src C:\Users\User\Pictures\konstantinkuyukov_nametag.png
Browse
Opacity
Preset name
Date (from)
Hashtags
Cell width (mm)
Cell height (mm)
Number of cells in width
Number of cells in height
KONSTANTIN
KUYUKOV


PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
Wall is filling now
MAIN
FILLING
DIGITAL
CHROMAKEY
INDEXES (GRID)
INDEXES (PHOTO)
OFF Preview instead of background
OFF Stretch the wall to full screen
OFF Add background
Browse
Background color
ON Animate the appearance
0,05 Delay between photos (in seconds)
ON Animation "Zoom"
Animation speed
X 0
Y 0
Image scale 1,417323
Src C:\Users\User\Pictures\konstantinkuyukov_nametag.png
Browse
Opacity 80
Preset name My
Date (from) Monday, April 1, 2019 2:39:
Hashtags
Cell width (mm) 51
Cell height (mm) 51
Number of cells in width 30
Number of cells in height 30
KONSTANTIN
KUYUKOV


PhotoWall
PHOTOWALL
PRE MODERATION
GENERATOR
MAIN SETTINGS
PRINT SETTINGS
Wall is filling now
MAIN
FILLING
DIGITAL
CHROMAKEY
INDEXES (GRID)
INDEXES (PHOTO)
OFF Remove background
OFF Remove chromakey
Threshold
Chromakey color
X 0
Y 0
Image scale 1,417323
Src C:\Users\User\Pictures\konstantinkuyukov_nametag.png
Browse
Opacity 80
Preset name My
Date (from) Monday, April 1, 2019 2:39:
Hashtags
Cell width (mm) 51
Cell height (mm) 51
Number of cells in width 30
Number of cells in height 30
KONSTANTIN
KUYUKOV





- create a new preset

- duplicate preset

- save preset

- delete preset

- add image

- add text

- duplicate layer

- remove layer

- fit to grid width

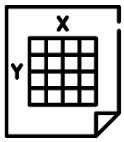
- fit to grid height

- start of filling the photo wall

- stop filling the photo wall

- pause printing

- recording a second window in mp4



- export png for printing the basics

Operating procedure

1. Work begins with the creation of a new preset.
2. Next, you need to configure the wall settings in the created preset:
    a. Select a hashtag that will be tracked on Instagram.
    b. Enter cell dimensions in mm (height and width).
    c. Enter the number of cells in height and width.
    d. If necessary, change the index of the first cell: Starting index of the wall (X), Starting index of the wall (Y).
    e. Select the type of filling by setting the combination of switches. If you select “Both” in the “Priority” field, the wall will fill both in height and in width at the same time. “Vertical” - the column is filled first, then the next line. “Horizontal” - first a row is filled, then there is a transition to the next column. If filling from the point is enabled, then the cells are filled sequentially starting from the index specified in the fields “Starting index of the fill (X)”, “Starting index of the fill (Y)”.
    f. Select the style of the label with the cell index.
    g. Select crop or fill a cell with a photo.
    h. Indicate whether face search is enabled (smart crop).
    i. Set the start date. Attention! The wall will not upload photos created earlier than this date.
    j. Check other settings.

3. Add the necessary graphic elements to the wall.

    a. The position of the element is selected by entering the X and Y coordinates, or by dragging by the mouse.

    b. Set the scale and transparency to the element.

    c. The program imports any graphic elements that ImageMagick can work with. To work with some formats, third-party programs are needed. For example, to work with eps you need to install Ghostscript for Windows (64 bit).

4. Save the preset.
   This is quite a long process. You must wait for the green indicator "Saved".

5. Start printing the photo wall.

   If any wall is selected in the list of walls, then the button to start printing starts the continuation of its filling.
   If no wall is selected, the button to start printing starts a new photo wall from scratch.

   If you need to temporarily interrupt the process, you can turn off the program. At the next launch, it will continue to fill the current photo wall.

   Attention! If you are going to continue to print any wall, then do not change the settings of the preset with which this wall is printed.

   Attention! The changes made are not saved if there is a wall in the “Start” status.

   To delete a wall and its cache, you must select it in the list and press the Delete key.

   There are two ways to remove a uniform background from photos:
   1. Enable the option “Delete chromakey”, set the color of the chromakey, set the threshold.
   2. Enable the option “Delete background”. In this case, the color of a uniform background will be determined automatically. The selected threshold will also be applied for deletion. Attention! The predominant color in the photograph may not only be in the background.

Second screen options

- Background color - fill color of the second screen

- Stretch the wall to full screen:
  off (by default) - the wall is centered, keeping the proportions and small fields;
  on - the wall is stretched to full screen (the proportions are not preserved).

- Preview instead of background - In the place of empty cells an image is displayed that will be laid out in a mosaic.

- Add background - In the place of empty cells, an image is displayed, the path to which is typed in the text box.

- Infinite fill:
  off (by default) - loading of new images stops after filling the entire wall;
  on - after filling the entire wall, the loading of new images continues with the replacement of existing cells.

- High resolution preview generation

- Animation of the appearance. The photo flies from behind the screen, is displayed in large size, and then takes its position in the wall.

- Animation "Zoom". During idle, a wall at a random moment (interval from 30 to 60 seconds) brings a randomly selected photo closer, then returns to its original state.

Competition

In this mode, the photo wall is divided into columns, in the amount indicated in the “Number of teams” field.

The first column of the photo wall is filled with photos with the first hashtag and from folders whose names end with __1 (the two underscores and the command number). The second one is filled with photos with the second hashtag and from folders whose names end with __2 and so on.

When the competition mode is off, photos on all the specified hashtags and from all the folders specified in the settings are loaded on the photo wall.

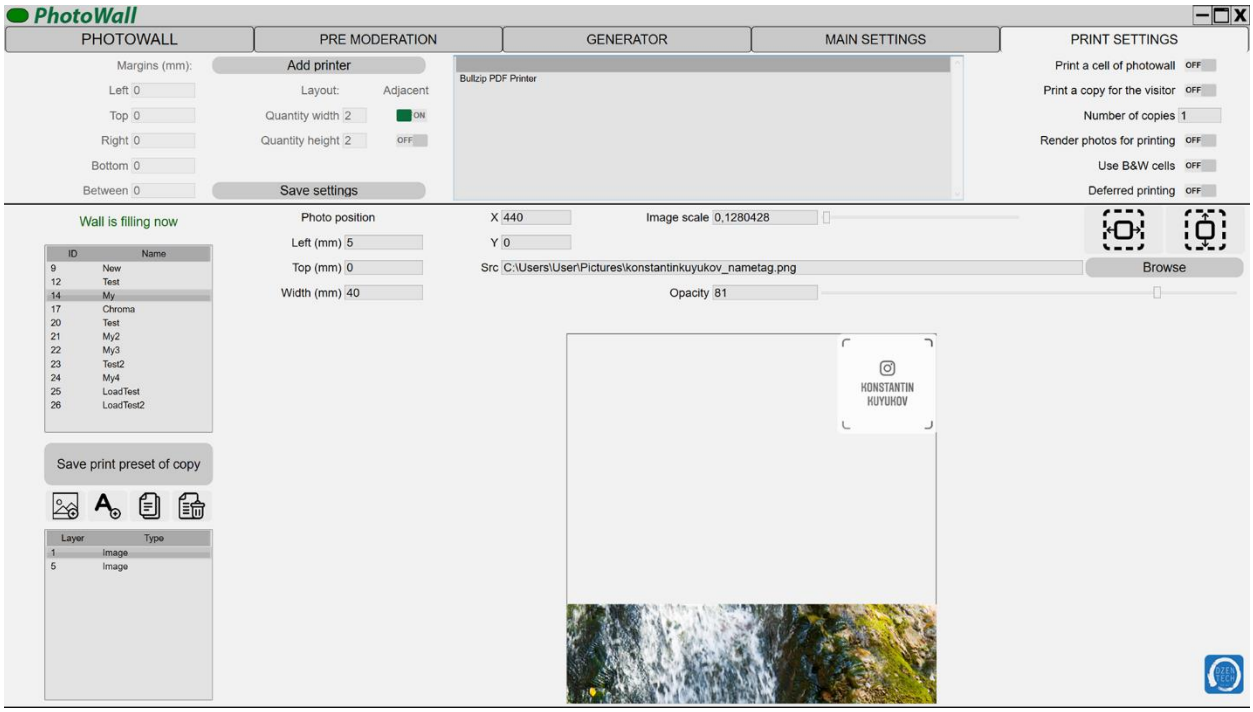
Mask of priority

Using a brush, you can draw a mask for the photo wall. Cells located under the mask will be filled first.

Using the slider, you can change the width of the brush.

When the brush mode is on, the left mouse button draws a mask, the right mouse button erases a mask.

Print settings window



Attention! Settings cannot be saved if you currently have a wall in the “Start” status!

When printing is on, photos are automatically sent to the printers added to the list. Print jobs are sent to each printer in turn. Printers in offline state are skipped.

Attention! Paper size and orientation is defined in the printer settings in Windows! These parameters must be the same on every printer added to the list!

Using the "Margins" and "Layout" settings you can place several photos on one printed sheet.

In this window, you can set the branding of printouts for the visitor, by overlaying graphic and text elements.

- add image

- add text

- duplicate layer

- remove layer

In the cached folder, all prints are saved: photos for the photo wall and copies for the visitor to the cache under the names "wall number _ row _ column .png" and "wall number _ row _ column _c.png", respectively; print tasks (layout with margins) to a file named "wall number _ date _ time .png". With the help of these files you can print any photo and check the correspondence of the aspect ratio and approximate size (it is necessary to cut the transparent fields).

Attention! The cell numbering here always starts at 0 and does not depend on the preset settings.

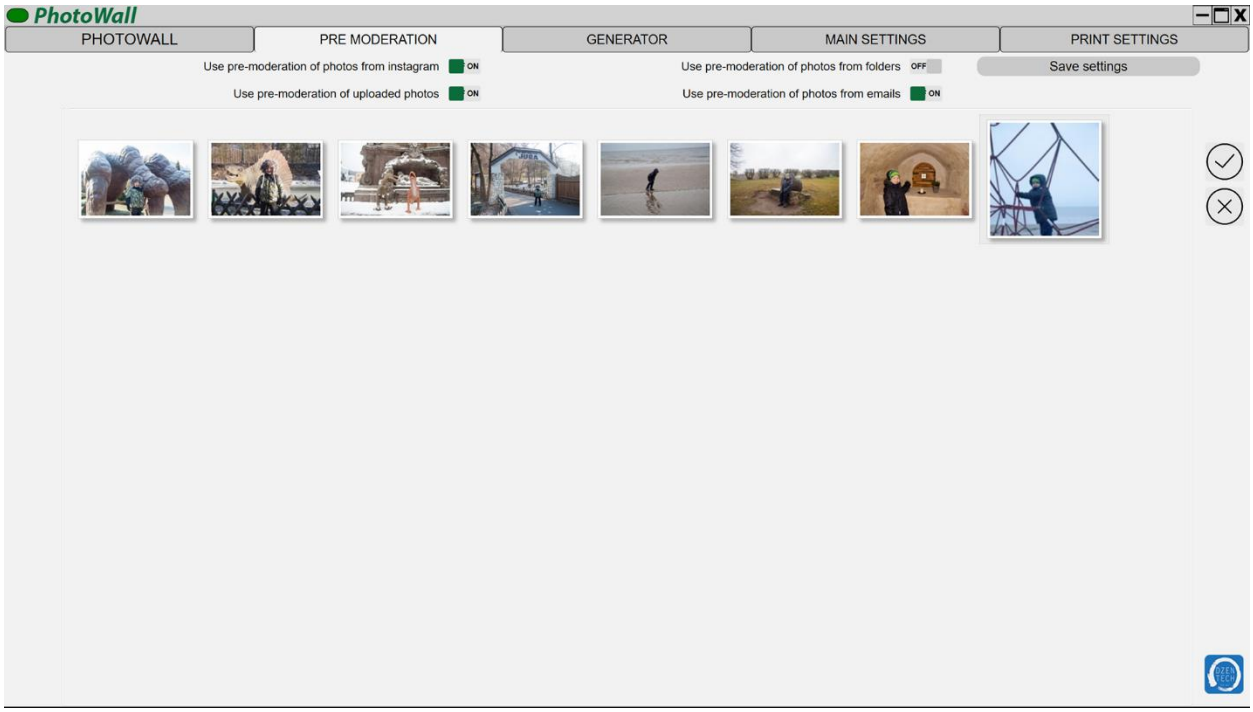
If you need processed high-resolution photos, then you need to enable the "Render photos for printing" option.

When the “Delayed printing” option is enabled, the photos will be fully processed, but they will be sent to the printer only after clicking the “Print all photos” button in the main window.

Disabling the use of black and white cells allows you to see photos with overlay graphics for delayed printing.

It is possible to print adjacent cells on one sheet. This may be necessary, for example, when you print 4 photos on a 10x15 sheet and want to glue it whole without cutting it. It is possible to make separate settings for columns and rows when your printer can cut along one side.

Pre moderation



In this window, pre-moderation of photos is turned on / off.

To accept or reject photos, select the photos you need and then use the right-click menu or the buttons on the right side of the screen.

Moderation is separately activated for photos uploaded from folders, Instagram, emails and uploaded via the built-in web server.

- approve photo

- reject photo

Program activation

Attention! The program is tied to the computer. One license is valid for one computer.

License management is carried out through KSuse Manager.

Used libraries

Icons made by Freepik from www.flaticon.com is licensed by CC 3.0 BY
https://www.flaticon.com/authors/freepik
Icons made by Smashicons from www.flaticon.com is licensed by CC 3.0 BY
https://www.flaticon.com/authors/smashicons
Icons made by Vitaly Gorbachev from www.flaticon.com is licensed by CC 3.0 BY
https://www.flaticon.com/authors/vitaly-gorbachev
http://creativecommons.org/licenses/by/3.0/

https://github.com/aspnet/EntityFramework6/wiki

https://github.com/xceedsoftware/wpftoolkit

http://www.helix-toolkit.org/

https://github.com/dlemstra/Magick.NET

https://www.newtonsoft.com/json

https://github.com/tonyqus/npoi

https://github.com/sendgrid/sendgrid-csharp

https://github.com/icsharpcode/SharpZipLib

https://github.com/shimat/opencvsharp

https://system.data.sqlite.org/index.html/doc/trunk/www/index.wiki

https://dotnet.microsoft.com/

https://www.ffmpeg.org/

https://github.com/azanov/imapx