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1 Hotfolder Prints

Overview

Hotfolder Prints is a collection of four programs for event photographers and photo booth operators: Hotfolder Prints which monitors a hot folder for images and automatically formats and prints them, Breeze Viewer which monitors a hot folder for images and displays them in a slideshow and Twitter Hashtag Monitor which automatically downloads photos from Twitter.

Hotfolder Prints

Hotfolder Prints is a powerful utility for automatically laying out one or more images on to a single page and then printing them. In addition it can save a JPEG copy of this layout and display it in a slideshow, email it to users or email it to social networking and photo sharing web sites such as Flickr and Twitter. Hotfolder Prints monitors a folder (the "hot folder") for new JPEG images. When enough JPEG images have been added it automatically formats these into a single page ready for printing, emailing or other actions. Hotfolder Prints comes with a copy of Breeze Viewer which runs a slideshow that automatically updates as new images are added to the display folder. When used in conjunction with our photo booth software, Hotfolder Prints provides a complete solution for displaying a rolling slideshow of the event's photos and for emailing copies to users and uploading to social networking sites such as Facebook.

In summary, Hotfolder Prints monitors a folder for JPEG or PNG images and then automatically lays them out on to a single page and then:

- Optionally prints the page. For example an event shooter might be shooting tethered and want each photo to be resized, sharpened, logos and captions added and then printed automatically. Or a photo booth operator may want to print two copies of each set of photos using different layouts: the photo booth could print out traditional 6x2 strips of four images and Hotfolder Prints could print out a larger 6x4 print of four photos arranged in a 2x2 grid.
- Optionally saves a copy of the print layout and then emails it. This could be to a fixed email address to automatically upload the picture to a site such as Facebook or Flickr or it could email the photo to users of a photo booth who entered their email address using a touchscreen.
- Optionally saves a copy of the print layout and copies it to a different folder. This could be to your DropBox folder so that the photos are automatically uploaded to your DropBox page where they can be shared and viewed as a photo gallery or to a folder for automatic uploading to an album on Facebook

Breeze Viewer

Breeze Viewer is a slideshow utility that comes with Hotfolder Prints. It monitors a folder and displays JPEG images and animated GIFs in that folder as a slideshow, automatically adding new images to the slideshow as they are added to the folder. This is great for event shooting and photo booths as you can leave the slideshow running on a large monitor or TV display and have it update automatically as more photos are taken during the event.

[More information on using Breeze Viewer.](#)

Breeze Gallery Uploader

The Breeze Gallery Uploader is a flexible tool for automatically uploading photos, animated GIFs and MP4s to online galleries. The HTTP upload option can upload files to gallery systems such as Photo Booth Gallery (<https://www.photobooth-deluxe.de/en/wordpress-photobooth-galerie-dokumentation/>) or any other gallery that has suitable scripts for receiving the uploaded files.

Breeze Gallery Uploader can also upload files directly to Hula Gallery (<https://www.hula.co/apps/gallery>).

Please note: "Photo Booth Gallery" and "Hula Gallery" are provided by other companies and require subscriptions that must be purchased separately. Please visit their respective web sites for more information.

[More information about Breeze Gallery Uploader](#)

SmugMug Uploader

The SmugMug Uploader is a tool which monitors a folder for new JPEG images, animated GIFs or MP4 movie files and automatically uploads them to your SmugMug account

[More information on uploading to SmugMug](#)

Twitter Hashtag Monitor

The Twitter Hashtag monitor is a tool which automatically downloads photos posted on Twitter with a particular hashtag. It works by scanning Twitter for tweets which match the search hashtag and contain a photo. When it finds a matching tweet it downloads the photo, the author's name and profile photo, the text of the tweet and the date of posting. This information can then be used by Hotfolder Prints to create a page showing the Twitter photo and automatically print it or save it as a JPEG image. The JPEG image can be displayed in a slideshow using Breeze Viewer or in kiosk software such as Breeze Kiosk where users can view the images and print, email or text them.

[More information on using the Twitter hashtag monitor](#)

Please note that [Breeze Kiosk](#) is a separate product. Please visit the Breeze Systems' website for more information about [Breeze Kiosk](#).

Topics covered in this help file

[Installing and registering Hotfolder Prints](#)

[General operation and set up](#)

[Automatic layout of photos](#)

[Custom layout of photos](#)

[Adding captions](#)

[Emailing images](#)

[Downloading Twitter Photos using Twitter Hashtag Monitor](#)

[Running a slideshow using Breeze Viewer](#)

[Automatically uploading images to other photo sharing sites](#)

[Tokens](#)

[How to create PNG images using Photoshop](#)

[Release history](#)

If you are running a photo booth you may also find this [series of articles on photo booth shooting](#) useful

2 Installing, Registering and Activating Hotfolder Prints

When you install Hotfolder Prints you need to activate your license on each PC it is running on. Activating the software is a quick and simple procedure if the PC has access to the internet, however, we recommend activating the PC at least 48 hours before an event. You can still activate a computer which does not have access to the internet, but this involves sending an email to sales@breezesys.com and will take longer than activating the software online. Each license can be activated on two computers, providing only one computer is used at once.

You must deactivate the software before **making any hardware changes, upgrading or repairing the PC**, reinstalling Windows or reformatting a hard disk. The software can then be reactivated after the work has been done.

Topics covered in this section:

- [Installing the software](#)
- [Uninstalling the software](#)
- [Evaluating the software](#)

- [Registering](#)
- [Activating](#)
- [Deactivating](#)
- [Moving the software to a different PC](#)
- [Making changes to your PC](#)
- [Decommissioning a PC](#)
- [Checking for updates](#)
- [Activation problems](#)

Installing the software

The latest version of Hotfolder Prints can be downloaded from www.breezesys.com.

To install Hotfolder Prints simply download and run the setup program then follow the on-screen instructions.

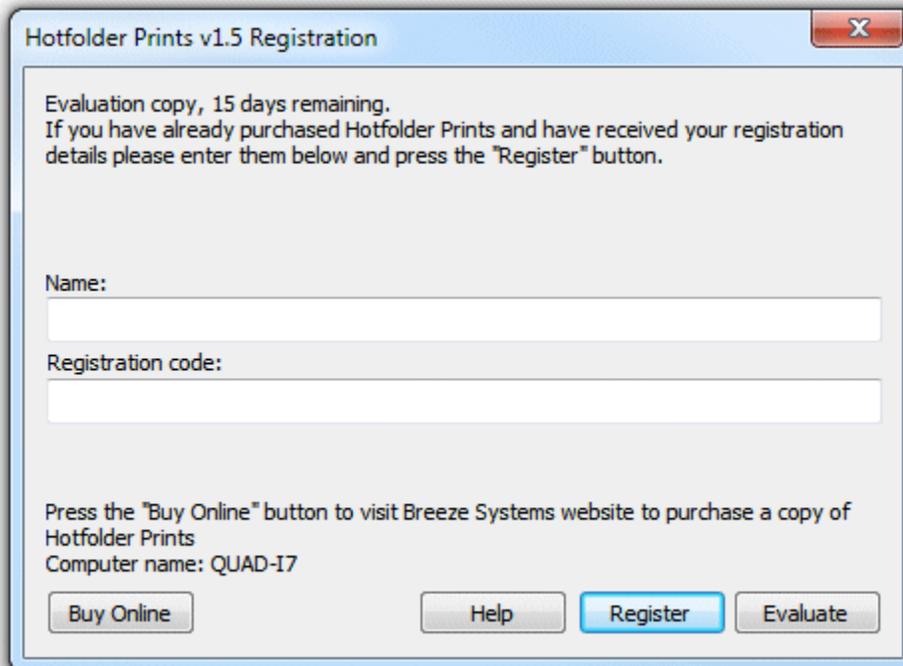
Uninstalling the software

Hotfolder Prints can be uninstalled using the standard Windows "Uninstall a program" option in the Programs section of the Windows Control Panel.

IMPORTANT: Please deactivate Hotfolder Prints before uninstalling otherwise you may not be able to activate the software on another computer. If you forget to deactivate the software you should be able to reinstall the software, deactivate it and then uninstall.

Evaluation Version

The trial evaluation version of the software is identical to the registered version and is fully functional for 15 days. Each time you run the software it will display the registration dialog allowing you to enter a registration code or press the "Evaluate" button to continue evaluating the software:

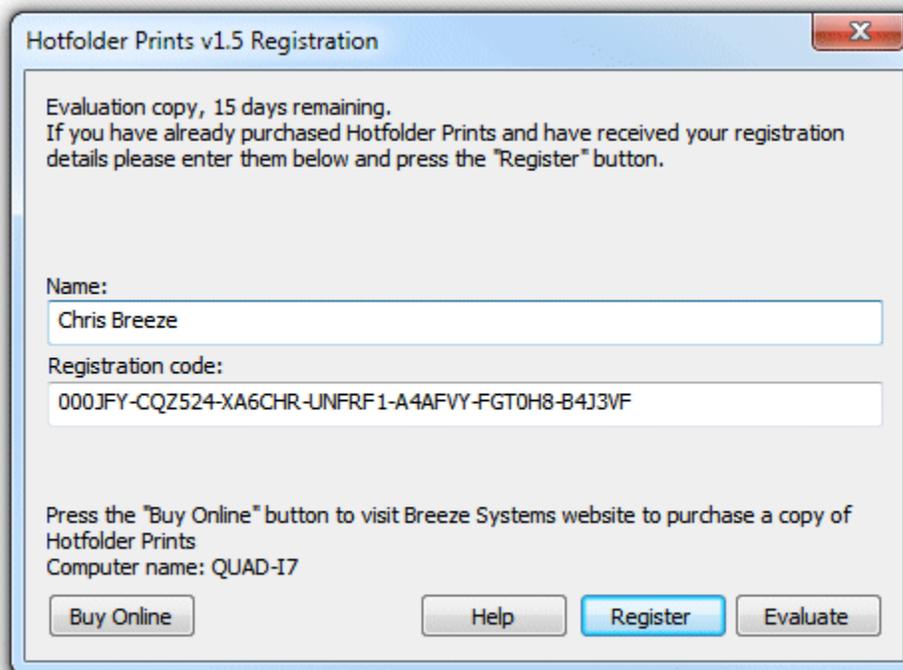


At the end of the 15 day trial period you must purchase a license to continue using the software.

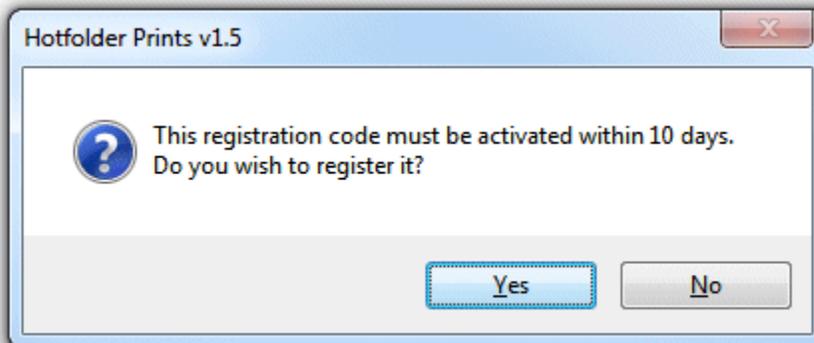
Registering the software

To purchase a license for Hotfolder Prints please visit our website: http://www.breezesys.com/purchase_hotfolder.htm. You will be sent an email containing your registration details when your payment has been received.

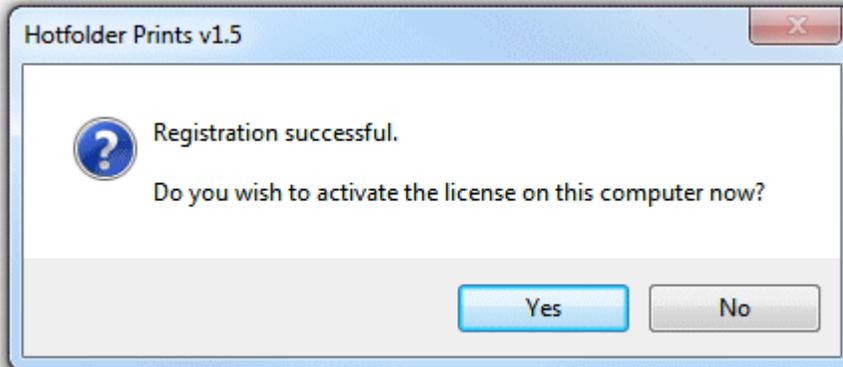
To register Hotfolder Prints run the application enter your registration name and code exactly as they appear in your registration email. You may find it easier to copy and paste both the registration name and code directly from your registration email to avoid mistakes when entering it. Please keep a copy of your registration email safe in case you need to re-enter your registration details.



Click on the "Register" button after entering your name and registration details. If the details are correct the message below will be displayed. An error message will be displayed if the name and registration code are not valid (e.g. they were not entered correctly) or if you need to purchase an upgrade to use this version of the software.



Click on the "Yes" button to register the software and the following message will be displayed asking you whether you want to activate the software on this computer:

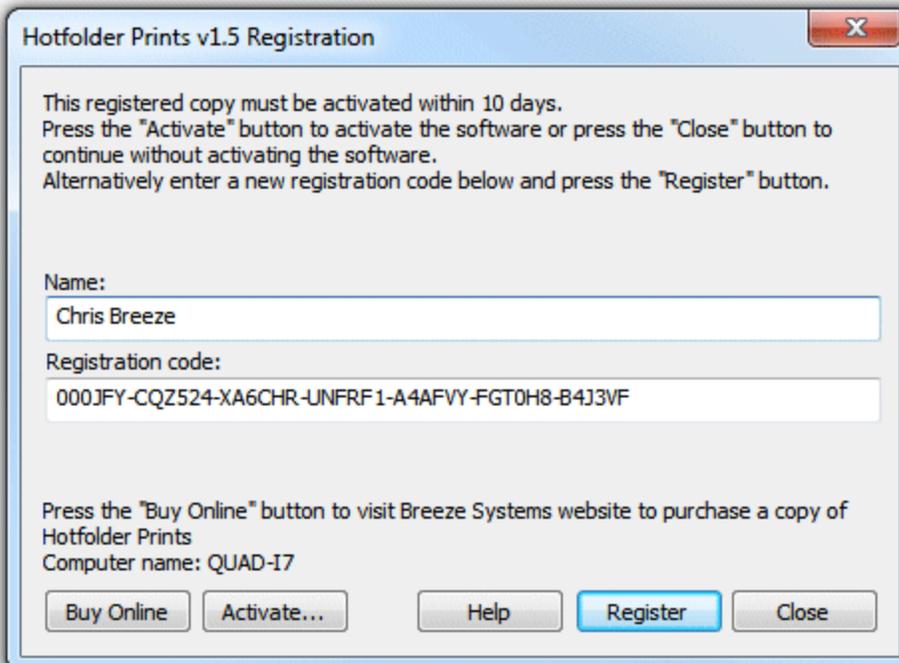


Click on the "Yes" button to activate the software on this computer (see the section below for details).

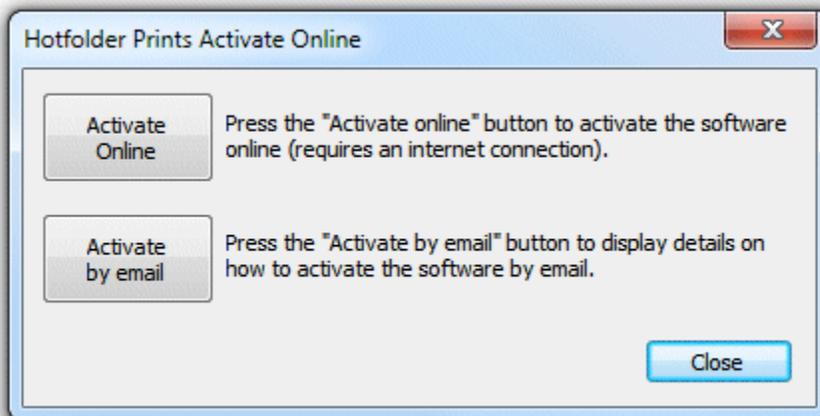
Activating the software

The software must be activated on the computer before it can be used. The software can be run without activating for up to 10 days after the the date when the registration code was issued. After that time the software will not run unless it is activated. Each license can be activated on two computers, providing only one computer is used at once. If you wish to move the software to a different computer you must deactivate it from the old computer before activating it on the new computer. Once the software has been activated on a computer you can run it normally.

To activate the software click on the "Activate..." button in the registration dialog

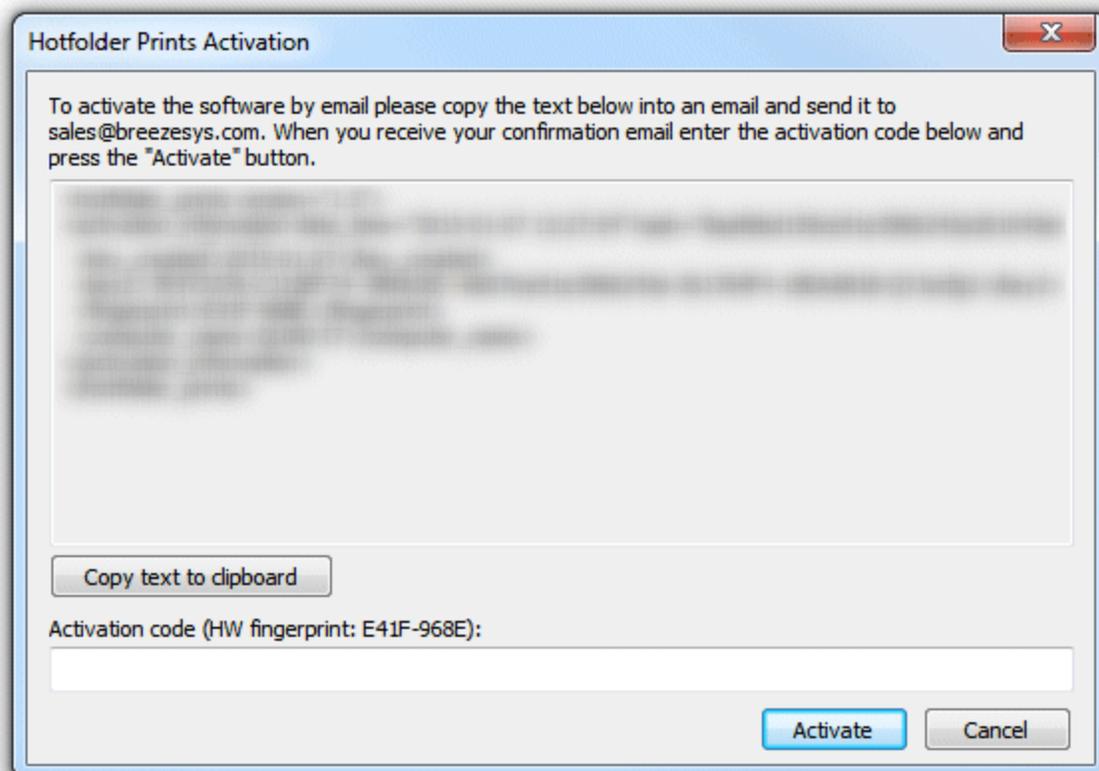


and the activation dialog below will be displayed:



The quickest and simplest way to activate the software is to do it online by pressing the "Activate Online" button. Please note that the computer must have an internet connection and the program must be allowed to access the internet in order to activate the software online. Please note that it may take up to 30 seconds to activate the software online.

If the computer is not connected to the internet you can activate the software by email by clicking on "Activate by email" button and the dialog below will be displayed:



It is important that you copy all of the text and email it to sales@breezesys.com. Please do not modify the text otherwise we may not be able to validate it. The simplest way to copy the text is to press the "Copy text to clipboard" button and then paste it into the email by typing Ctrl+V. If the computer doesn't

have email you can copy the activation text to a USB memory stick and then read it on a computer which does have email.

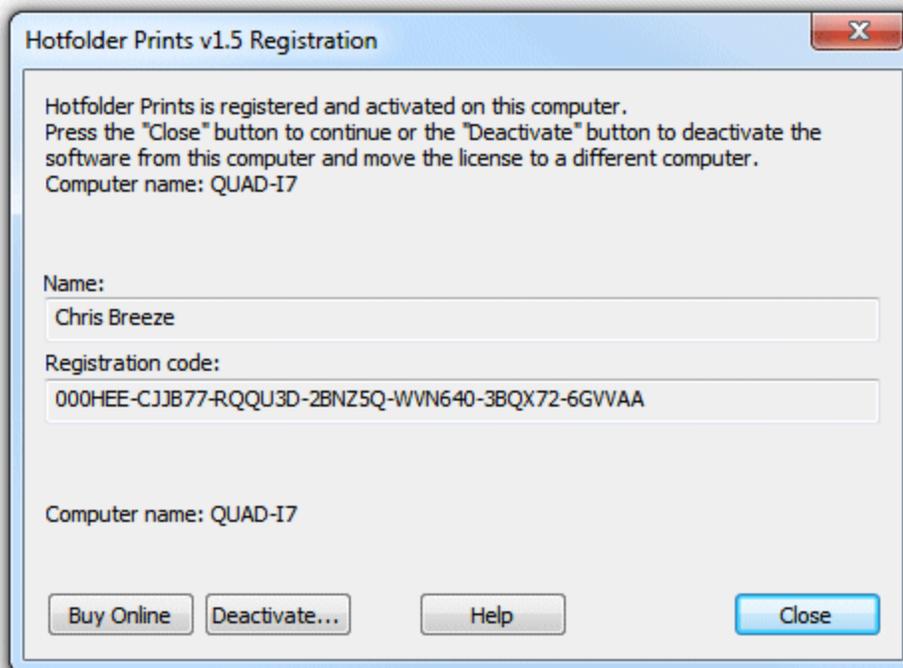
You should normally receive an email containing your activation code within 12 hours of sending the activation request email. Paste your activation code into the "Activation code" text area at the bottom of the activation dialog and click on the "Activate" button to activate the software. If you have closed the activation dialog you can display it again by running the software and then clicking on the "Activate..." button in the registration dialog followed by the "Activate by email" button.

Deactivating the software

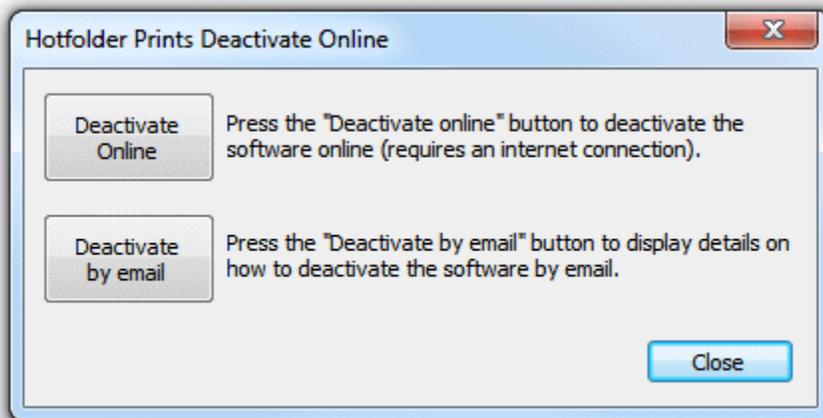
The software can only be activated on up to two computers at any given time. If you wish to move the software to a different computer you must deactivate it from the old computer before activating it on the new computer.

You also need to deactivate the software before **making any hardware changes, upgrading or repairing the PC**, reinstalling Windows or reformatting a hard disk. The software can then be reactivated after the work has been done.

To deactivate the software select "Register..." from the Help menu in the main window to display the registration dialog:

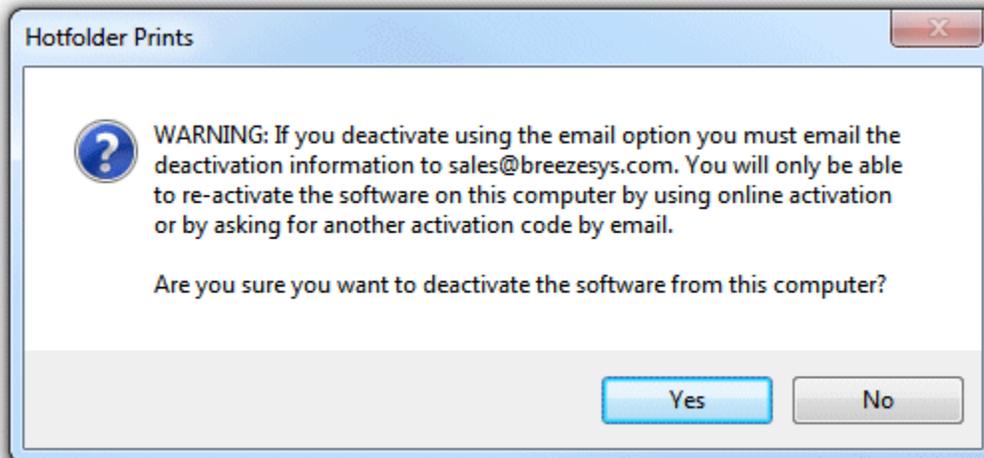


Then click on the "Deactivate..." button to display the deactivation dialog:

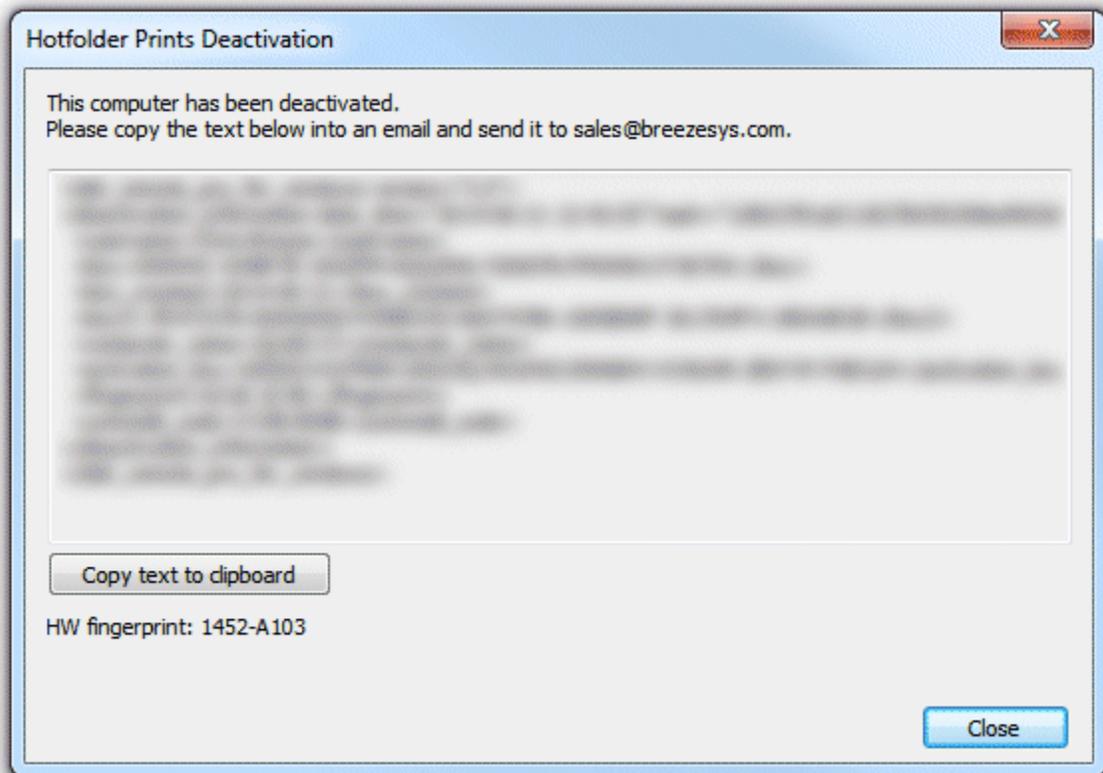


The quickest and simplest way to deactivate the software is to do it online by pressing the "Deactivate Online" button. Please note that the computer must have an internet connection and the program must be allowed to access the internet in order to deactivate the software online. Please note that it may take up to 30 seconds to deactivate the software online.

If the computer is not connected to the internet you can deactivate the software by email by clicking on "Deactivate by email" button and the warning dialog below will be displayed:



Click on the "Yes" button if you want to continue and the deactivation dialog below will be displayed:



It is important that you copy all of the text and email it to sales@breezesys.com. Please do not modify the text otherwise we may not be able to validate it. The simplest way to copy the text is to press the "Copy text to clipboard" button and then paste it into the email by typing Ctrl+V. If the computer doesn't have email you can copy the text to a USB memory stick and then read it on a computer which does have email.

You should normally receive an email acknowledging the deactivation code within 12 hours of sending the request email. If you forget to copy the deactivation information and email it to sales@breezesys.com you can display it again by selecting "Register..." from the Help menu in the main window and clicking on the "Display" button. Please note that the copy of the deactivation information will be not be available after another registration code has been entered.

Moving the software to a different PC

The software can be activated on up to two computers at any given time and so if you are moving the software to a different PC you should [deactivate the software](#) from the old PC first. Then install the software on the new PC, then [register](#) and [activate the software](#). If you are planning to move the software to a different PC permanently please following the instructions for [decommissioning a PC](#).

Making changes to your PC

You need to [deactivate the software](#) before making changes to your PC such as upgrading the PC hardware, reformatting a hard disk, reinstalling Windows, upgrading Windows or getting a PC repaired.

Simply deactivate the software online (or by email if the PC doesn't have access to the internet), make the changes and then [re-activate the software](#). If Windows has been reinstalled or the hard disk has been replaced or reformatted you may need to re-install Hotfolder Prints, re-enter your name and registration code and then activate the software.

The latest release and previous releases of the software can be downloaded from the [upgrades page on the Breeze Systems website](#).

IMPORTANT: Please make sure you have a copy of your name and registration code before making changes to your PC just in case you need to re-enter them later

Decommissioning a PC

If you are decommissioning a PC and planning to sell it or give it to somebody else you need to [deactivate the software](#) and remove your registration details. It is very important that you remove your registration details even if you have uninstalled the software otherwise the new owner may be able to reinstall the software and gain access to your registration details. If someone obtains your registration details they will be able to register and activate the software on their computer and could prevent you from using it on your computer.

After deactivating the software you can remove your registration details by entering the special registration code below:

Name: Uninstall

Code: 000JJ3-EY4BAB-9C1GBW-VMRWE8-U4V3UT-DXY5J2-YNZC4R

This will install a special old code which replaces your registration details and will cause the software to display an "Upgrade required" message when it is run.

If you decide to use the computer again you can reinstall the software, enter your registration details and activate software.

Checking for updates

You can check for updates by selecting "Check for updates online". This will connect to the internet and display details of the latest version Hotfolder Prints in your web browser. Alternatively go to the Hotfolder Prints page on our website: <http://www.breezesys.com/Hotfolder>

Activation problems

If the error message "The server name or address could not be resolved" is displayed when you try to activate or deactivate the software online it means that the PC is unable to access the internet. Please check that the computer is connected to the internet and check your firewall settings to make sure that Hotfolder.exe (the Hotfolder Prints program) is allowed to access the internet. If you are still unable to activate the software online you may need to [activate it by email](#) instead.

If a different error message is displayed please follow the instructions displayed in the error message. If you are not sure what to do please email sales@breezesys.com and include your registration name and code and details of the error message.

Please also see the support page on the Breeze Systems website for [help with activation problems](#).

3 General Operation and Set Up

Hotfolder Prints monitors a folder for new JPEG or PNG image files and automatically formats them into a page and prints them. The images can be formatted using the [automatic layout](#) or [custom layout](#) options. The automatic layout option is suitable for simple layouts where the images are arranged in a grid. The custom layout option offers precise control over the size, position and rotation of each image and is suitable for more complicated layouts.

To setup Hotfolder Prints click on the "File" menu and select "Preferences..." and the dialog below will be displayed:

The screenshot shows the 'HotFolder Prints Preferences' dialog box with the following settings:

- Folder to monitor for new images: Auto create folder
- Folder path: C:\Users\chris\Documents\PhotoboothImages\{date}
- Match filename (regular expression): .*
- Number of images [1 to 10]: 4
- Delay before processing images (sec): 1
- Processing mode: Wait for XML file
- XML file timeout (sec): 30
- Output Options:
 - Output: Print and save JPEG copy
 - Custom size: 1000 x 1000 pixels
 - Filename prefix: HFP_
 - Subfolder: prints
 - Don't process files if output file already exists
 - Rotate output to match first photo
 - Run command after saving JPEG copy of output: Edit email settings...
 - Copy JPEG output to folder: Always copy
 - Custom layout: Settings...
 - Rows [1 to 10]: 2
 - Columns [1 to 10]: 2
 - Photo aspect ratio: 3:2
 - Custom aspect ratio: 3 : 2
 - Image border (mm): 1
 - Number of copies to print [0=auto or 1 to 9]: 1
 - Folder containing background and overlay images: C:\Users\chris\Documents\PhotoboothImages
 - Background/overlay filename suffix:
 - Rotate image to match photo area
 - Crop image to fill photo area
 - Mirror output images
 - Repeat images to fill empty columns
 - Sharpen images, amount: 75
 - Print photos in: Color

Buttons at the bottom: Load..., Save..., OK, Cancel.

Select the folder to monitor by pressing the "..." browse button to the right of the text area headed

"Folder to monitor for new images". The folder path can also include [date based tokens](#) e.g. C:\Photobooth\%Y-%m-%D. The folder path is checked every 60 seconds and updated if it has changed. Select the "Auto create folder" if you want Hotfolder Prints to create the folder to be monitored if it doesn't exist.

Then specify the number of images to be used in each layout. When Hotfolder Prints is running it will monitor the folder for new JPEG files. Once it has detected the required number of images it will automatically format and print them.

The "Match filename (regular expression):" option normally isn't needed and can be left unchecked. You only need to use this option if you want Hotfolder Prints to only process some of the images added to the folder being monitored e.g. to process even numbered files and ignore odd numbered files the regular expression should be set to `*[02468]\.JPG`

Please note: an explanation of how to use regular expressions is beyond the scope of this help file. There are many websites with more information about using regular expressions.

Select the processing mode from the "Processing mode:" dropdown list. There are three options described below. The "Wait for XML file" option is the recommended setting if you are using Hotfolder Prints with our photo booth software.

"Wait for JPEGs"	Hotfolder Prints will monitor the folder for new JPEG images and will process them when enough images are available
"Wait for PNGs"	Hotfolder Prints will monitor the folder for new PNG images and will process them when enough images are available
"Wait for JPEGs or PNGs"	Hotfolder Prints will monitor the folder for new JPEG or PNG images and will process them when enough images are available
"Wait for videos"	Hotfolder Prints will monitor the folder for new MP4 or MOV videos and will process them when enough videos are available by extracting a still image from each video. Use the "Secs into video" setting to specify where in the video the still image should be extracted e.g. if the video has a 3 sec intro section "Secs into video" could be set to 4 seconds to skip the intro.
"Wait for XML file"	Hotfolder Prints will monitor the folder for new XML files. Hotfolder Prints will then read the XML file for a list of JPEG images to process. The XML file should be in the same format as the XML summary file written by Breeze Systems' photo booth software. This is the recommended option if you are using Hotfolder Prints with our photo booth software.
"Wait for XML file with timeout"	This is the same as the "Wait for JPEGs option" except that Hotfolder Prints will wait for an XML file with the same name as the first JPEG in the set. The JPEG images will be processed if the timeout occurs before the XML file is found.

The delay before processing images can be set to any value from 0 to 120 seconds. Normally a value of 1 second should be fine, but it may be necessary to use a larger delay if images take a long time to copy to the hot folder. A longer delay may also be required to allow users time to enter their email address when using Hotfolder Prints with the touchscreen keyboard option in our photo booth software. Alternatively select the "Wait for XML file" processing option and Hotfolder Prints will wait until the photo booth software has written the XML file containing the user's email address before it starts processing the images.

Use the output dropdown list to specify how the formatted layouts should be output. The "Print only" option will print the layout using the currently selected printer. The "JPEG copy only" option will save a JPEG copy of the layout in a subfolder of the folder being monitored named "Prints". The "Print and save JPEG copy" option will print the layout and save a copy in the "Prints" subfolder. When the output is set to "Print only" or "Print and save JPEG copy" the page size is defined by the current printer settings. When the output is set to "JPEG copy only" a custom page size can be defined by selecting the custom size checkbox and entering the page width and height in pixels.

An optional prefix can be added to the filenames of JPEG copies of the layout to help identify them. The JPEG copies should be saved in a different folder from the hot folder being monitored and this

should be specified using the "Sub folder" field. The default settings are for filenames to be prefixed by HFP_ and to the JPEG copies to be saved in a subfolder named "prints". The filename will be the filename prefix plus the date and time of the first image in the current set in the form YYYYMMDD_hhmmss e.g. if the first image was taken at 20:30:05 on 12th August 2012 the filename will be HFP_20120812_203005.jpg. This can be overridden by using tokens in the filename prefix e.g. setting the filename prefix to %o will save the JPEG file using the same filename as the first photo in the sequence. Please see the section on [Tokens](#) for a list of available tokens. If there is already a filename of the same name in the folder an underscore followed by a number will be added to the filename to prevent the existing file from being overwritten.

The "Don't process files if output file already exists" option is useful when using the File->Rescan XML files option. When "Don't process files if output file already exists" is set Hotfolder Prints checks the output filename and if it already exists it doesn't process the file again. If "Don't process files if output file already exists" is set Hotfolder Prints will create a new copy of the file (with a _1 suffix) if the output file already exists.

The "Background/overlay filename suffix" setting provides a way to select different backgrounds and overlays for prints. This setting can use tokens to provide values that are read at run time e.g. random numbers or data entered in the survey screens. For example to add a randomly selected overlay to a print layout the "Background/overlay filename suffix" could be set to random{random,1,3}. The token {random,1,3} evaluates to a random number between 1 and 3 giving a randomly generated suffix. When preparing the print layout the software will look for an overlay named overlay_random1.png, overlay_random2.png or overlay_random3.png depending on the random number. If it can't find an overlay file with the filename suffix it will use the standard filename, overlay.png, instead.

The "Rotate output to match first photo" will rotate the JPEG copy of the print output to match the EXIF orientation of the first photo added to the print layout. This option is useful for processing single photos which may have different orientations e.g. backend processing for a virtual photo booth which receives photos from cell phones which could be shot in portrait or landscape orientation.

An optional command can be run after saving the JPEG copy of the output by selecting the checkbox and entering the command in the text edit area. This command could be used to automatically upload the JPEG to a site such as Flickr or Facebook or to email a copy of the photo to the users. Please see the section on [uploading to photo sharing and social networking sites](#) for more details.

The JPEG copy of the output can also be copied to another folder e.g. for automatic uploading to Facebook. To use this select the "Copy JPEG output to folder:" option and enter the destination folder in the text area. Use the dropdown list to control when the JPEG images should be copied. The options are "Always copy", "Only copy if <checkbox1> is set" and "Only copy if <checkbox2> is set". <checkbox1> and <checkbox2> refer to information read from the XML status file written by our photo booth software. Please see the section on [uploading to photo sharing and social networking sites](#) for more details.

Please note: The command run on the JPEG output and the JPEG copy options are not available when the output setting is "Print only"

The printer can be setup by selecting "Printer Setup..." from the "File" menu in the main window.

Tip: To save having to setup the printer preferences every time Hotfolder Prints is run you can go to the Windows Control Panel, select "Printers and Faxes" then right click on the printer to change its preferences.

Set the number of copies of to print to the required number or to 0 for automatic. When the automatic option is selected the number of prints is read from the XML summary file written by Breeze Systems' photo booth software. This allows the number of prints to be set using the photobooth software. If Hotfolder Prints can't find the XML summary file it will print one copy.

Next define the print layout using the [automatic layout option](#) or the [custom layout option](#).

The images can be sharpened by selecting the "Sharpen images" checkbox and specifying a sharpening amount in the range 0 to 100. The amount of sharpening required depends on personal taste, the camera and the printer. A value of around 75 is a good starting point.

Use the "Print photos in:" dropdown list to select whether the photos should be printed in color, black and white or "Auto color/B&W". The "Auto color/B&W" option will read the <bw_mode> tag in the XML summary file written by Breeze Systems' photo booth software to determine whether to print the photos in color, B&W or B&W (toned). This will default to color if the XML file is not found or it does not contain a <bw_mode> tag. "Auto color/B&W" is the recommended when using Hotfolder Prints with our photo booth software as this will ensure Hotfolder Prints processes the JPEGs with the same color/B&W/B&W toning settings as selected in the photo booth software.

When using the auto layout option up to two captions can be added to the layout. These could be used to personalize the prints by adding the name of the event or to include information such as the date and time to make it easier to identify the layout for reprints. Please see the section on [adding captions](#) for more details.

When using the custom layout option captions can be added using the [print layout editor](#).

Example photo booth summary XML file

The sample photo booth summary XML file below was created using Breeze Systems' Webcam Photobooth software. The XML summary files written by our other photo booth software (DSLR Remote Pro for Windows, NKRemote and PSRemote) have a similar formats:

```
<?xml version="1.0" ?>
<breeze_systems_photobooth version="1.1">
<photo_information>
  <date>2013/04/16</date>
  <time>09:16:20</time>
  <user_data>sales@breezesys.com</user_data>
  <prints>1</prints>
  <photobooth_images_folder>C:\Users\Chris\Documents\PhotoboothImages\example</
photobooth_images_folder>
  <caption1></caption1>
  <caption2></caption2>
  <bw_mode hue="200" saturation="200">2</bw_mode>
  <photos>
    <photo image="1">20130416_091620.jpg</photo>
    <photo image="2">20130416_091625.jpg</photo>
    <photo image="3">20130416_091630.jpg</photo>
    <photo image="4">20130416_091635.jpg</photo>
    <output>prints\130416_091620.jpg</output>
  </photos>
</photo_information>
</breeze_systems_photobooth>
```

The {user_data} used in the email command will read the value "sales@breezesys.com" from the <user_data> tag. The auto prints option will read the value 1 from the <prints> tag. The auto color/B&W option will read the value 2 and the attributes hue=200 and saturation from the <bw_mode> tag. This will print the photos as B&W toned with a hue of 200 and saturation of 40 to give a monochrome sepia look. The <bw_mode> tag can also be set to 0 for color or 1 for B&W without toning.

When the processing mode is set to "Wait for XML file" the following filenames of images to process will be read from the XML file: 20130416_091620.jpg, 20130416_091625.jpg, 20130416_091630.jpg, 20130416_091635.jpg

Saving settings for future reference

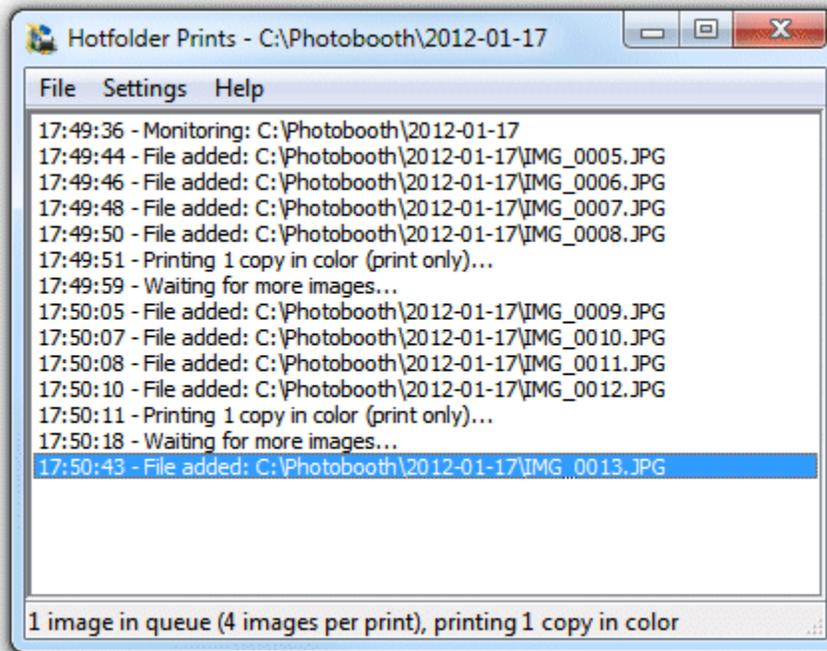
Settings can be saved to file for future reference by pressing the "Save..." button and reloaded by pressing the "Load..." button. Please note that layout depends on the size of the page which is affected by the printer settings. The current printer settings are saved to file with the other settings and reloaded when loading the settings from file.

You can load settings from file at startup by dragging and dropping a settings file onto the Hotfolder Prints desktop shortcut or by right clicking on the Hotfolder Prints desktop shortcut, selecting properties and adding the pathname to settings file to the "Target" (or command line).

Hotfolder Prints can also read print layouts saved using our other photobooth products: DSLR Remote Pro for Windows, PSRemote, Webcam Photobooth and NKRemote.

In Operation

When Hotfolder Prints is running the main window look something like the screenshot below:



The name of the folder being monitored is displayed in the window title bar (C:\Photobooth\2012-01-17 in the example above). The main part of the window shows an activity log and the current status is summarized in the status bar at the bottom of the window.

The number of copies to print of each layout can be specified using the "Settings" menu or by typing Ctrl+1, Ctrl+2, Ctrl+3, Ctrl+4 or Ctrl+5.

The settings menu also has an option to print images in color or black and white.

When Hotfolder Prints adds a new file it also takes a copy of the settings (number of copies and whether to print in color or B&W) and will use these settings when the images are printed.

The queue can be emptied by selecting "Reset" from the "File" menu or by typing Ctrl+R. This will remove all pending images from the queue including any images being prepared for printing.

Event Info

Event information can be defined and used in filenames, captions etc. in Hotfolder Prints. The event information is also read by the Twitter Hashtag Monitor, the SmugMug Uploader and Breeze Viewer slideshow software.

The information is saved in the Windows registry so that it may be shared with other applications and is read from the Windows registry before it is used so that it can use information supplied by other applications. The "Photo Booth Event Info" dialog can be displayed by selecting "Event info..." from the File menu):

The information is also saved in the Windows registry using the registry key: HKEY_CURRENT_USER\Software\BreezeSystems\Event Info.

Please note: Do not use the characters \ / : * ? " | < > in the event info if it is going to be used to define filenames. Windows does not allow these characters to be used in filenames and this may prevent the files from being saved.

Item	Token	Registry value
Event name	{eventName}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventName
Event string 1	{eventString1}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString1
Event string 2	{eventString2}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString2
Event string 3	{eventString3}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString3
Event string 4	{eventString4}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString4
Event string 5	{eventString5}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString5
Print counter	{eventPrintCounter}	HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\PrintCounter

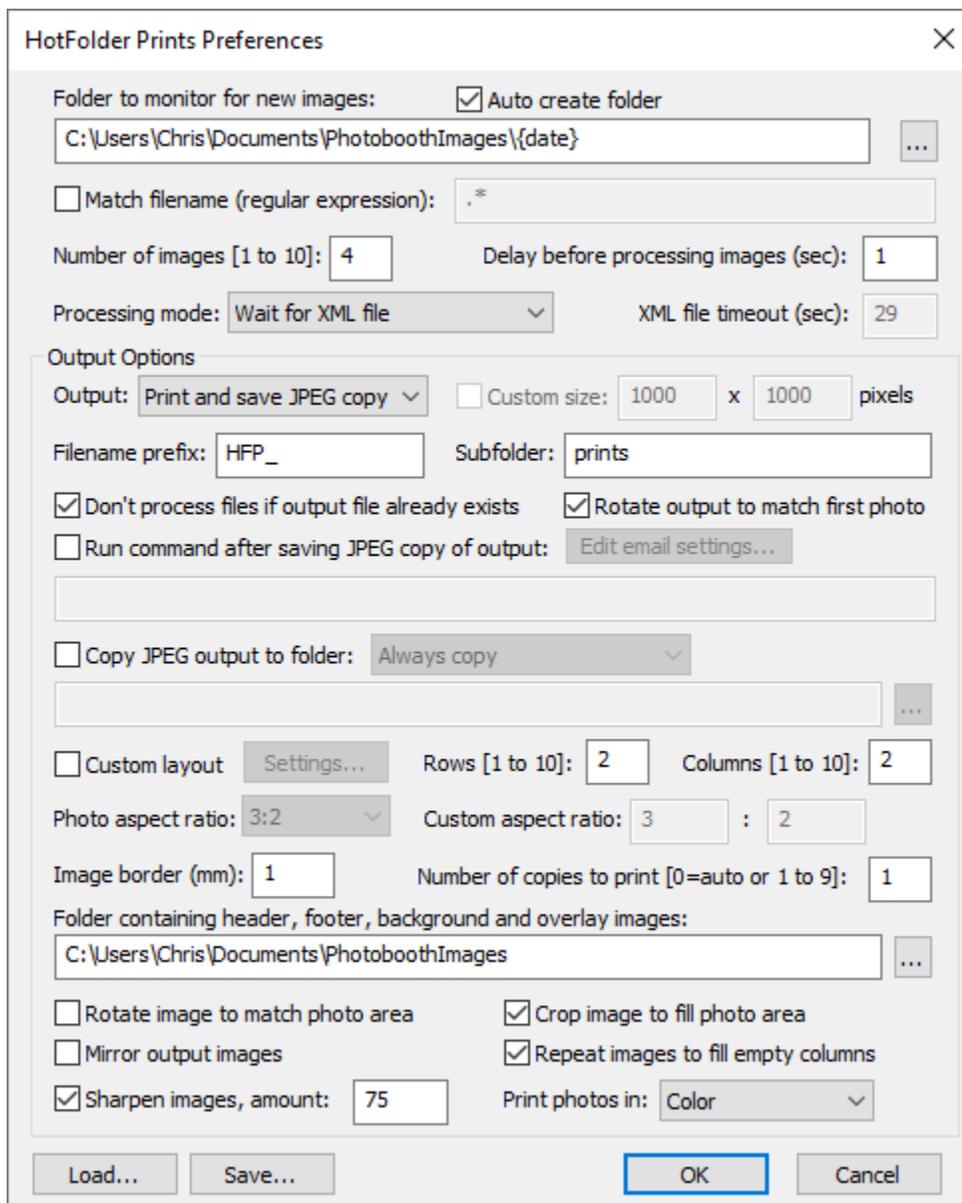
Two print counters are available:

1. "Print counter" - this is a print counter shared via the Windows registry with other apps (e.g. DSLR Remote Pro or Breeze Kiosk) and is decremented each time any app prints a photo
2. "Hotfolder Prints print counter" - this is a private print counter only used by Hotfolder Prints. The counter is decremented each time a photo is printed.

4 Automatic Layout of Photos

The automatic layout option allows images to be automatically arranged on a page in a grid. An optional background, header, footer and overlay can be added to the layout. Please see the [print layout editor section](#) if you need more precise control over the layout, to rotate images or to print the images different sizes.

To use the automatic layout option select "Preferences..." from the File menu and the dialog below will be displayed:



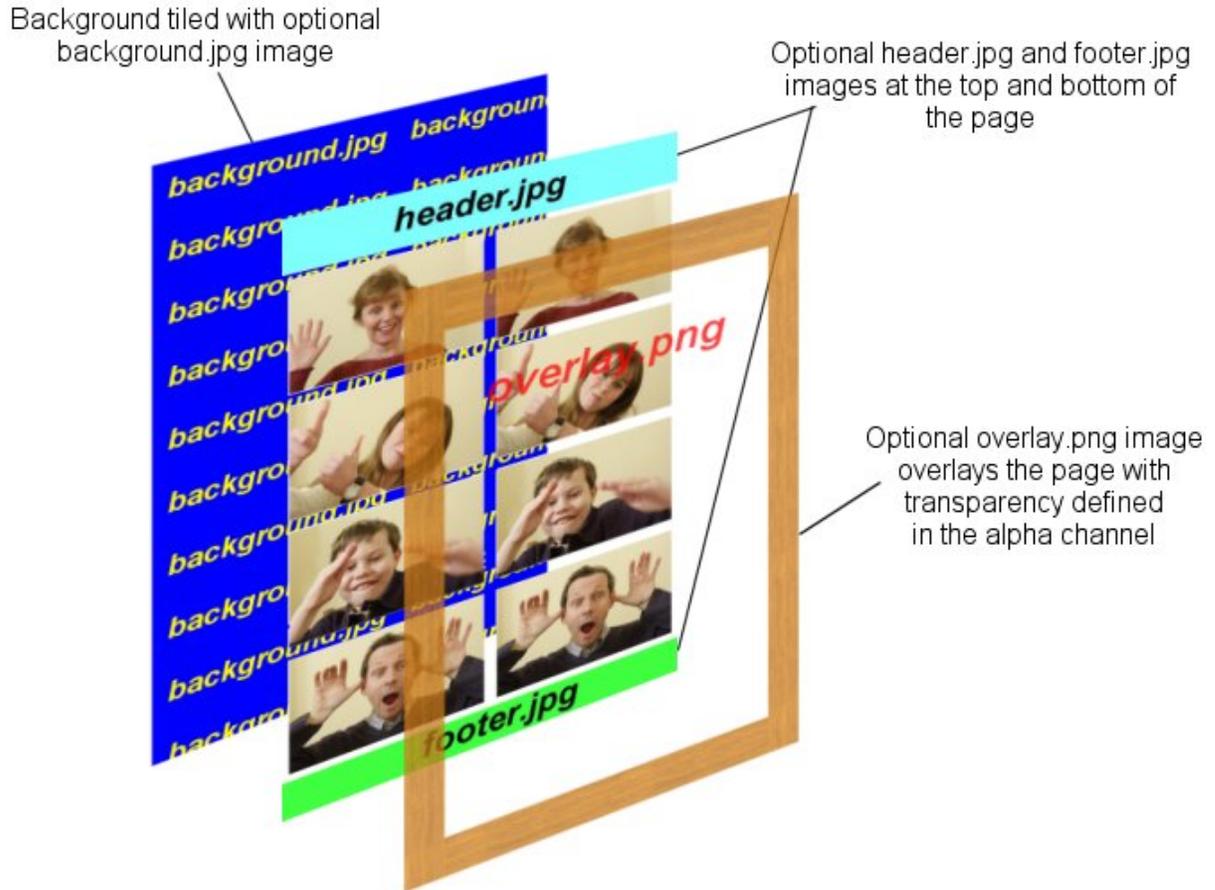
Make sure the "Custom layout" option is unchecked, then select the number of images to be used and how they are arranged. This could be a single image on one sheet of paper (1 image, 1 row, 1 column), a passport style strip of images (e.g. 4 images, 4 rows, 1 column) as shown above, 2x2 grid of 4 images or any other arrangement of up to 10 images arranged in a grid. Alternatively select "[Custom layout](#)" and click on the "Settings..." button next to the checkbox to position each image manually on the page.

Print layout

The print can have an optional background with a header and or footer image and an overlay image. When Hotfolder Prints prepares the image for printing it looks for the following files in the image folder:

background.jpg - optional image which is centered on the page before adding the photos
 header.jpg - optional image which is centered and placed at the top of the page

footer.jpg - optional image which is centered and placed at the bottom of the page
 left.jpg - optional image which is centered vertically and placed on the left of the page between the header and footer
 right.jpg - optional image which is centered vertically and placed on the right of the page between the header and footer
 middle.jpg - optional image which is centered vertically and placed between each column of images
 image_overlay.png - optional image which is overlays each photo and uses transparency information stored in the alpha channel
 overlay.png - optional image which is overlays the page and uses transparency information stored in the alpha channel



The images are then arranged in a grid which fills the printable area of the page less any space taken up by a header or footer image. If the "Rotate image to maximize size" checkbox is selected the images are rotated through 90 degrees if this would give a larger image. e.g. if the printable area for the image within the grid is 80mm high and 50mm wide and the image was shot in landscape orientation it would be rotated by 90 degrees to better fill the printable area.

If the number of images matches the number of rows the images can be repeated in each column by selecting "Repeat images to fill empty columns". This is useful when printing strips of images on paper from a dye sublimation printer e.g. two copies of 4x1 strips on a sheet of 8x6 paper.

If the "Crop image if required to fit the printable area" checkbox is selected the image will be cropped to fill the printable area within the grid. e.g. if the printable area within the grid is square equal portions of the left and right of the image will be cropped to make it square.

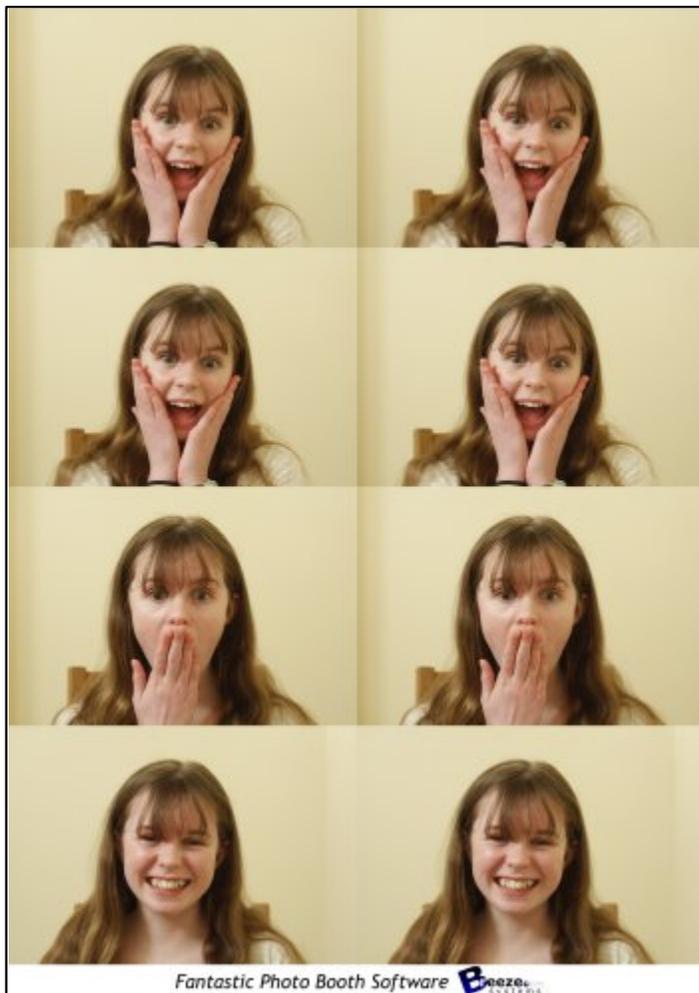
Some example layouts using four shots arranged in two columns of four:



With left.jpg down the left border, middle.jpg placed between the columns, right.jpg down the right border and footer.jpg at the bottom



Same layout as the first example but with no left.jpg or right.jpg images defining the left and right borders



Same layout as the previous example but with no middle.jpg image placed between the columns



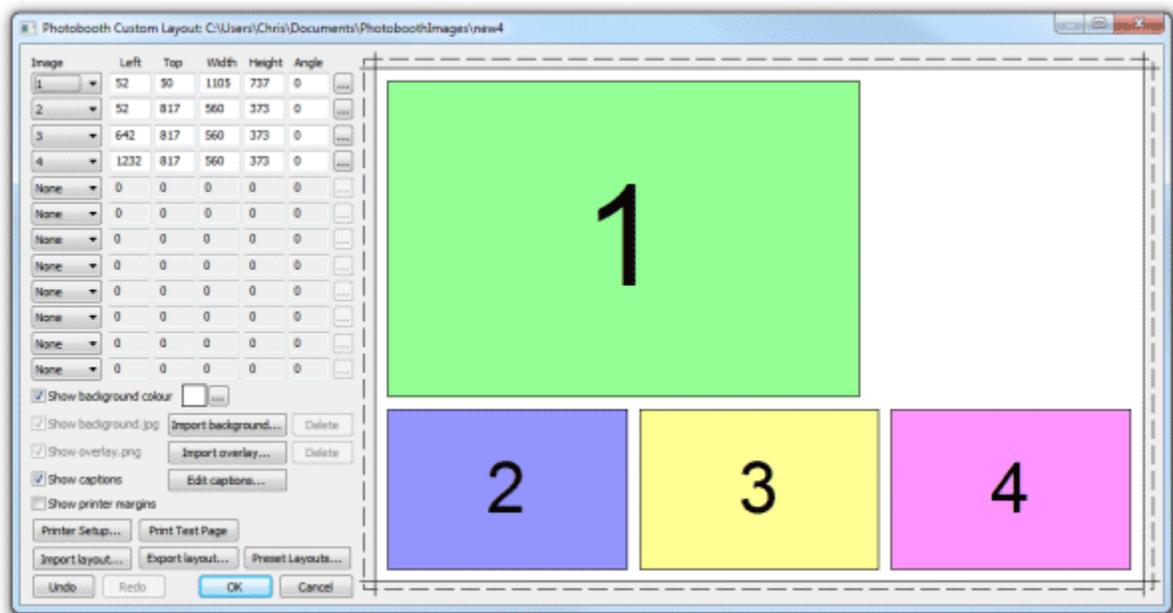
Same layout as the previous example but with a 2mm border around each image

5 Print Layout Editor

The print layout editor can be displayed opening the "Preferences" dialog (File->Preferences...) and clicking on the "Settings..." button to the right of the "Custom layout" checkbox.

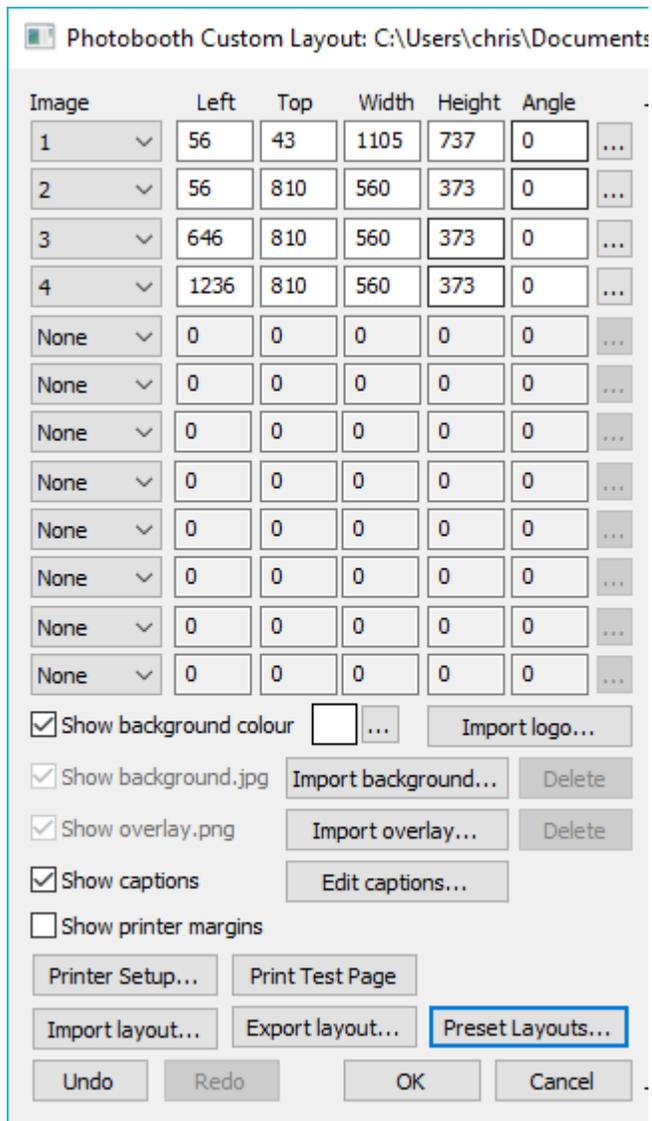
The print layout editor can be used to create your own print layouts from scratch or to load and edit print layout templates created earlier.

Please visit the [templates page on our website](#) to download a selection of free templates.



The right hand side of the window displays the print layout. Photos and captions can be edited interactively by clicking on them using a mouse and then dragging to position, resize or rotate them.

The left hand area of the window contains controls to help with the layout and for loading and saving settings:

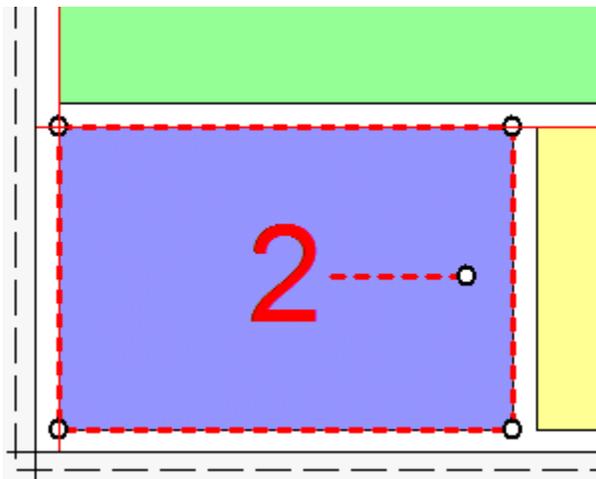


A Quick tour of the editor

This section gives a quick overview of some of the ways to edit the layout.

Click on the "Preset layouts..." button, select one of the preset layouts (e.g. "1 large, 3 small") and then click on the "OK" button. The right hand side of the editor should show the page layout similar to the screenshot above.

Left click the mouse on photo 2 to select it:



The photo will be highlighted with a dashed red line to show that it has been selected. It will also have a resize control in each corner and a dashed line in the center with a control for rotating the image.

Move the mouse over the center of the photo (a hand cursor will be displayed) and then click on hold down the left mouse button and drag the photo to a new position and then release the left mouse button. The keyboard cursor keys can also be used to adjust the position of the photo e.g. pressing the left cursor key will move the photo one pixel to the left. Hold the shift key down and press one of the cursor keys to move the photo 10 pixels in that direction.

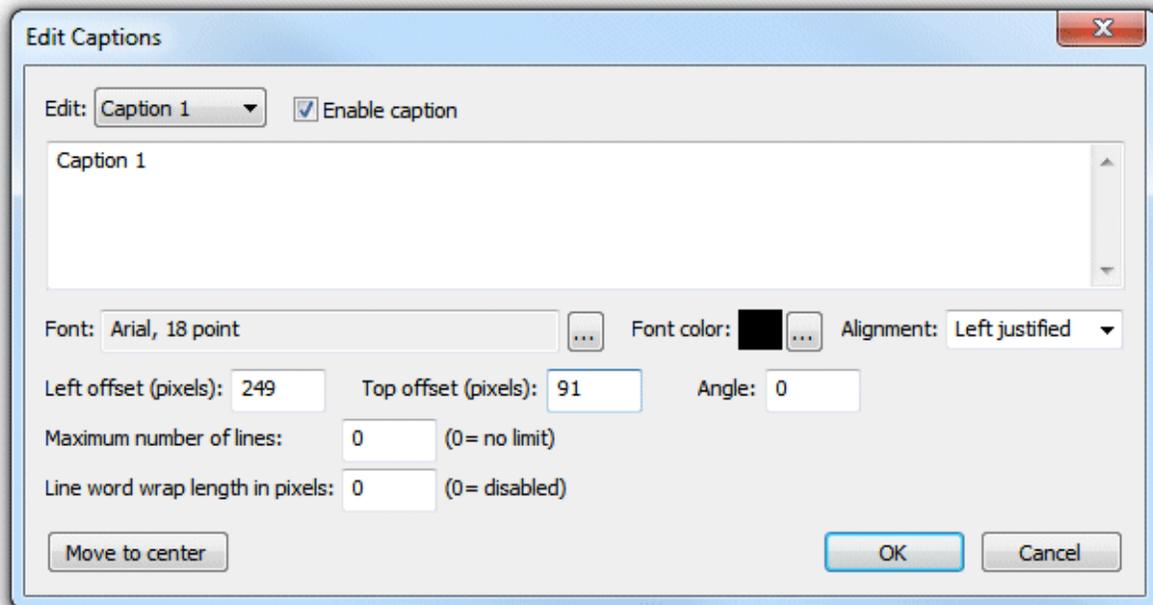
Resize the photo by moving the mouse over one of the corners of the photo (a resize cursor will be displayed) and then click on hold down the left mouse button and drag the corner to resize the photo and then release the left mouse button.

Rotate the photo by moving the mouse over the control area at the end of the dashed line in the center of the photo (a rotate cursor will be displayed) and then click on hold down the left mouse button and move the mouse to rotate the photo and then release the left mouse button. The keyboard cursor left and right keys can also be used to rotate the photo when the ctrl key is held down e.g. hold down the ctrl key and press the left cursor key to rotate the photo 1/2 degree to the counter clockwise. Hold the ctrl and shift keys down and press cursor left or right to snap the rotation to the nearest 15 degrees and then rotate in 15 degree steps.

Select all the photos by typing Ctrl+A or by right clicking on a photo as selecting "Select all". The selected photos will be highlighted with dashed red lines and can be dragged as a group by holding down the left mouse button.

When a photo is selected it is also highlighted in the image position display in the top left corner of the edit window. The size, position and rotation of the photo can be entered directly by clicking on the "..." button for that image. Click on the dropdown list to change the photo number (or select "None" to remove it or "QR code" set it to a QR code).

Add a caption by clicking on the "Edit captions..." button or by right clicking on a space in the print layout and select "Add caption" and the dialog below will be displayed:



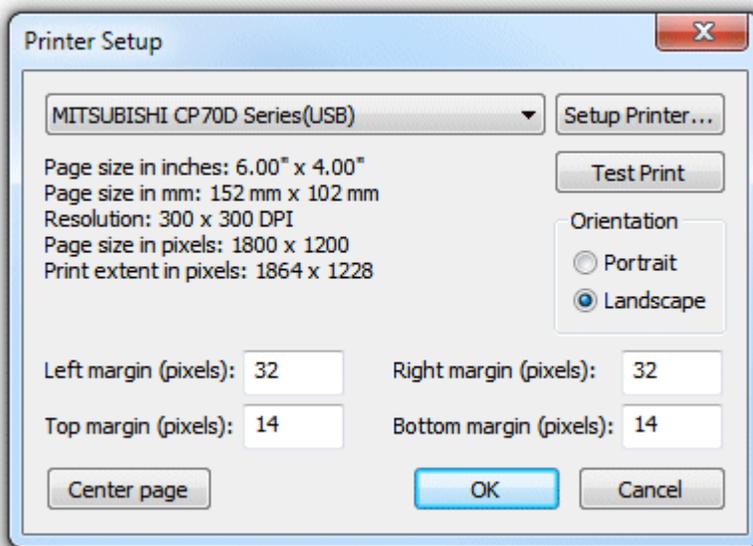
Check the "Enable caption" checkbox if it is not already checked. Caption 1 should now be displayed highlighted on the print layout (if it isn't visible click on the "Move to center" button). Type in the edit box to change the caption text or click on the "..." button to the right of the "Font:" label to change the font or to the right of the "Font color:" display to change the color. Click on the "OK" button and the font should remain highlighted. You can drag, resize and rotate the text using the mouse just the as with a photo.

Click on the "Undo" button a few times (or type ctrl+Z) a few times to undo the changes. Then click on the "Redo" button (or type ctrl+Y) to redo the changes.

Note: The dashed line around the layout shows the full printing extent of the printer including any overlap over the edges of the paper for borderless printing. The inner solid line represents the area of the final print.

Printer setup and margins

It is a good idea to check the printer settings and printer margins before designing the layout or running the photobooth setup wizard. To do this click on the "Printer Setup..." button and the "Printer Setup" dialog will be displayed:



Select the required printer from the dropdown list. If your printer isn't listed you may need to install the printer drivers first (please see the Windows help files or printer manuals for information on how to do this).

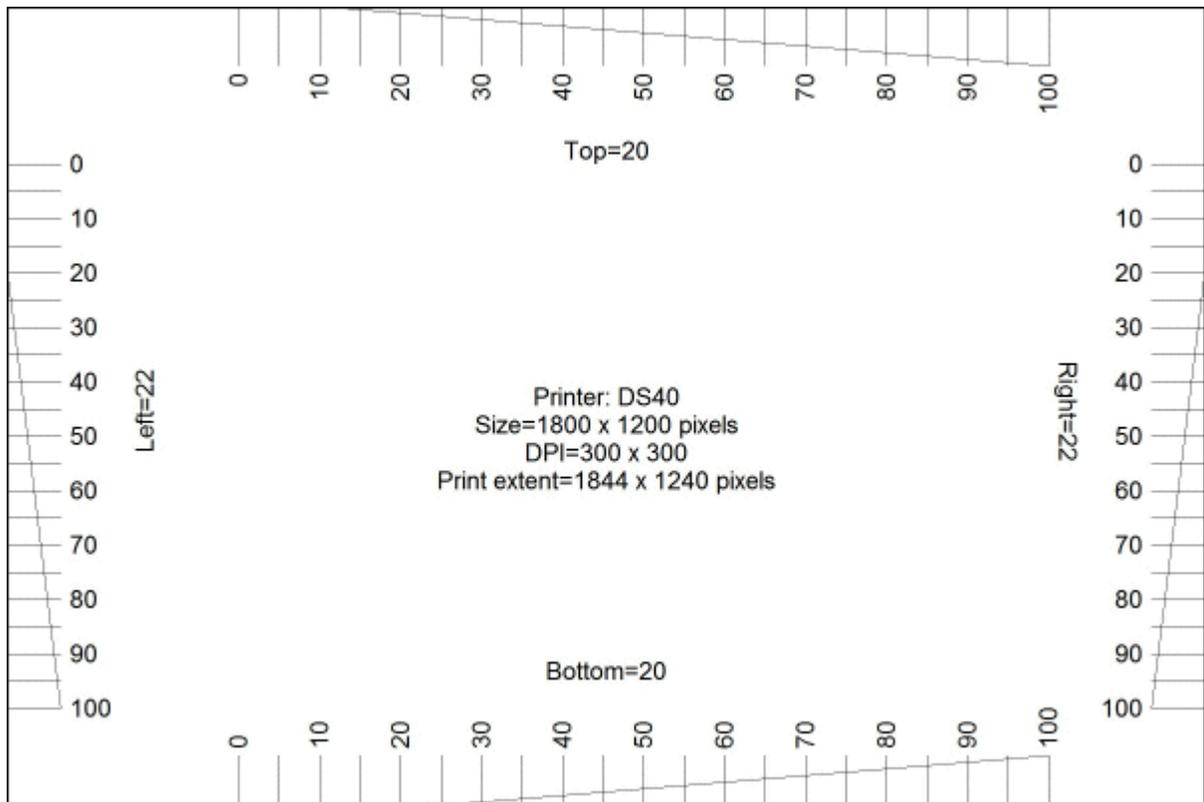
Click on the "Setup Printer..." button to select the page size, print orientation, print resolution and other printer settings.

Note: if you want to print a double strip of three or four images and are using a dyesub printer that can cut 4"x6" pages into two 2"x6" strips you need to select the 2x6 cut option in the printer driver.

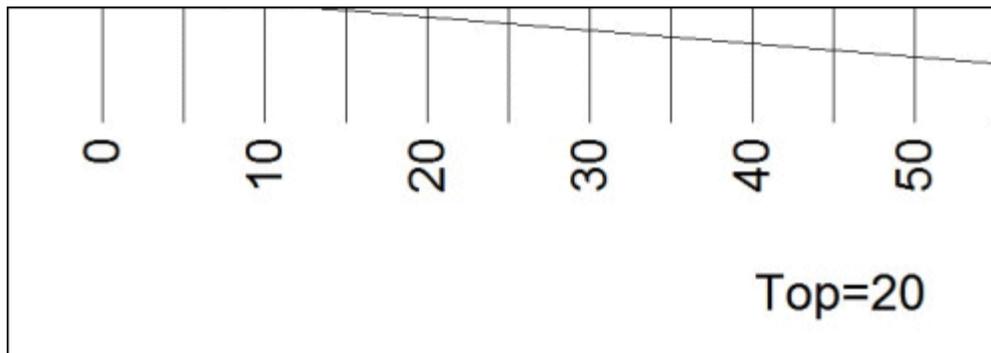
Click on the "Portrait" or "Landscape" radio buttons to change the printer page orientation.

If the selected printer is setup with a page size of 4"x6" and a print resolution of 300 DPI or 600 DPI (most professional dyesub printers support this) the "Center page" button will be enabled. You can press this button to setup the margins to center the page in the printable area. This should produce correctly centered prints with most printers.

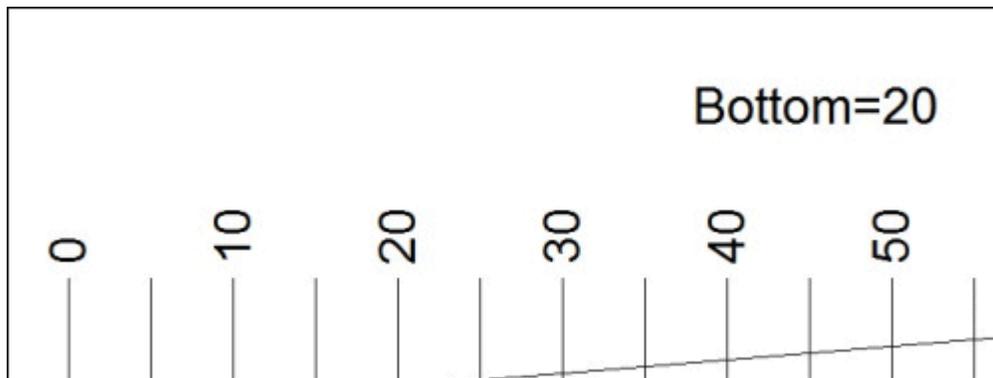
Click on the "Test Print" button to print a page to help setup the printer margins. The test print from a DNP DS40 printer will look something like this:



In the enlarged view of the top margin shown below the top margin can be read off the ruler as 14 pixels:



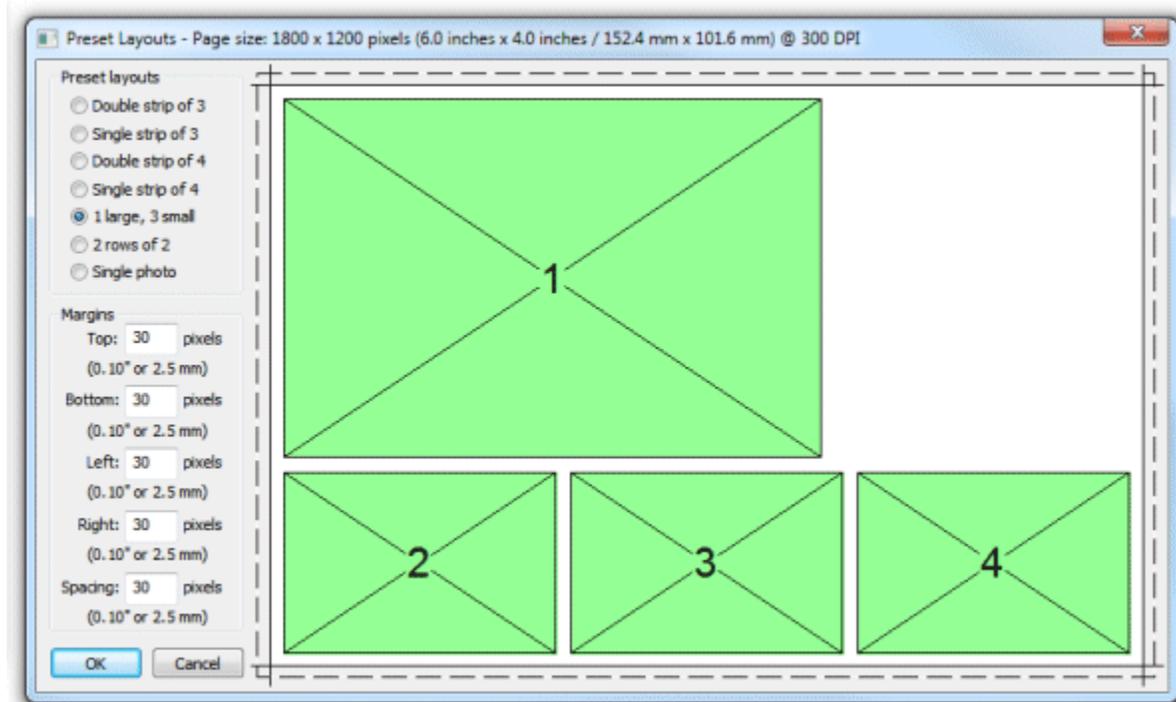
And in the enlarged view of the bottom margin shown below the bottom margin can be read off the ruler as 26 pixels:



Check the top, left, right and bottom margins and enter the values in the printer setup dialog, It is worth spending time setting up the print margins accurately as this will save time later.

Preset Layouts

The "Preset layouts..." button can be used to help design a number of different popular layouts using three or four photos. These include a double strip of three or four photos, a single strip of three or four photos, one large image with a row of three smaller images below and two rows of two images. Simply select the layout you want, adjust the page margins and image spacing and then press the OK button and the software will work out the settings for you:



Select the preset layout from the list of layouts in the top left of the window. The right side of the window shows a preview of the selected layout. The spacing between photos and the top, left, right and bottom margins can be adjusted using the edit boxes on the left of the window.

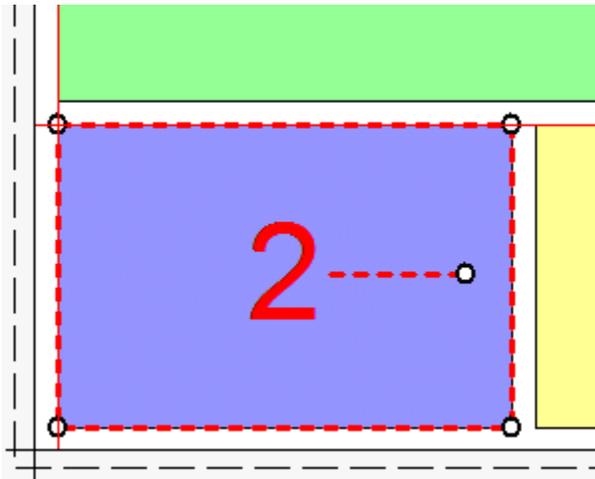
Note: The dashed line around the layout shows the full printing extent of the printer including any overlap over the edges of the paper for borderless printing. The inner solid line represents the area of the final print.

Click "OK" to copy the layout to the print layout editor.

Editing Photo Positions

A photo can be added to the layout by selecting the photo number from one of the spare image dropboxes showing "None" in the top left corner of the editor window. Alternatively a photo can be hidden by setting its dropdown list to "None".

The size, position and rotation of the photo can be edited by left clicking on the photo to select it and then using the mouse or keyboard cursor keys:



Move the photo by moving the mouse to the center of the photo (a hand cursor will be displayed) then hold down the left mouse button and drag the photo to the new position.

Tip: Hold down the shift key to limit the movement to a horizontal or vertical direction only. Alternatively use the left, right, up and down cursor keys to move the photo one pixel at a time. Hold down the shift key and use the cursor keys to move the photo 10 pixels at a time.

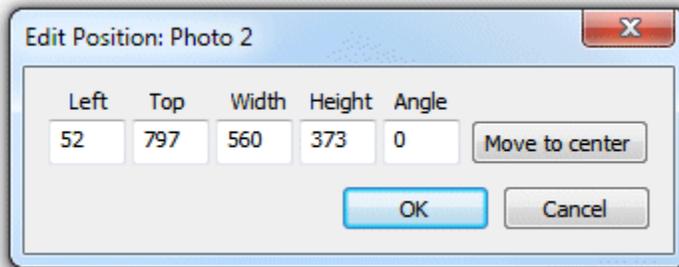
Resize the photo by moving the mouse to one of the circular control handles in the corners (the resize cursor will be displayed) then hold down the left mouse button and drag the corner to resize the photo. The aspect ratio of the photo will be preserved (i.e. the ratio of the width to the height). Hold down the shift key if to resize the photo without preserving the aspect ratio (this may result in the photos being cropped when they are printed).

Rotate the photo by moving the mouse to the circular control handle at the end of the red dashed line in the center of the photo (the rotate cursor will be displayed) then hold down the left mouse button and move the mouse to rotate the photo.

Alternatively hold down the ctrl key and use the left and right cursor keys to rotate the photo in 1/2 degree increments. Hold down the ctrl and shift keys and use the cursor left and right keys to rotate the photo in 15 degree increments.

Photos are printed in the order in which they are defined and so if the second photo's position overlaps the first photo the second photo will be printed on top of the first photo. You can change the order in which photos are printed by right clicking on a photo and selecting "Move to back", "Move back", "Move forward" or "Move to front".

You can also enter the photo position and angle directly by clicking on the "..." button for that photo on the left side of the editor window and it will display the "Edit Position" dialog:



You can also edit the position by right clicking on the photo and selecting "Edit image position..." from the popup menu.

The left and top entries specify the distance in pixels of the photo from the left and top edges of the page respectively. The layout in the print editor window will be updated automatically as you change the settings. If the photo isn't visible you can press the "Move to center" button to center it on the page.

The width and height entries specify the width and height of the photo in pixels. To preserve the aspect ratio of the photo you can enter 0 for the width or height and the software will replace this with the correct value when you press the "OK" button.

Note: Entering a width and height with a different aspect ratio from the photos taken by the camera (3:2) will result in the photo being cropped when it is printed.

The angle entry specifies the clockwise rotation of the photo in degrees.

Editing QR Codes

A QR code can be added to the layout by selecting "QR code" in one of the spare image dropboxes showing "None" in the top left corner of the editor window. Alternatively the QR code can be hidden by setting its dropdown list to "None". The size, position of the QR code can then be edited in exactly the same way as a photo (described in the section headed "Editing Photo Positions" above).

The text encoded in the QR code can be edited by right clicking on the QR code and selecting "Edit QR code..." from the popup menu. The "QR Code" dialog shown below will be displayed:



Type in the text you want to be encoded in the QR code. Normally this is a URL which needs to be prefixed with http://

The QR code display will be updated automatically as you type in the text. You can test the QR code by pressing the "Test URL" button to open it in a web browser. You can also test the QR code by scanning it with a cell phone.

The error correction dropdown list specifies amount of error correction encoded in the QR code. A "Medium" setting should be suitable for most uses. You may wish to use the "Low" setting if the URL is very long or the QR code is to be printed very small.

Note: The QR code text can also be edited by selecting File->Edit QR code from the main program window.

Adding Logos and Pictures

Click on "Import logo..." to import a PNG or JPEG image into the print layout. Logos can be moved, resized and rotated just like photos in the print layout.

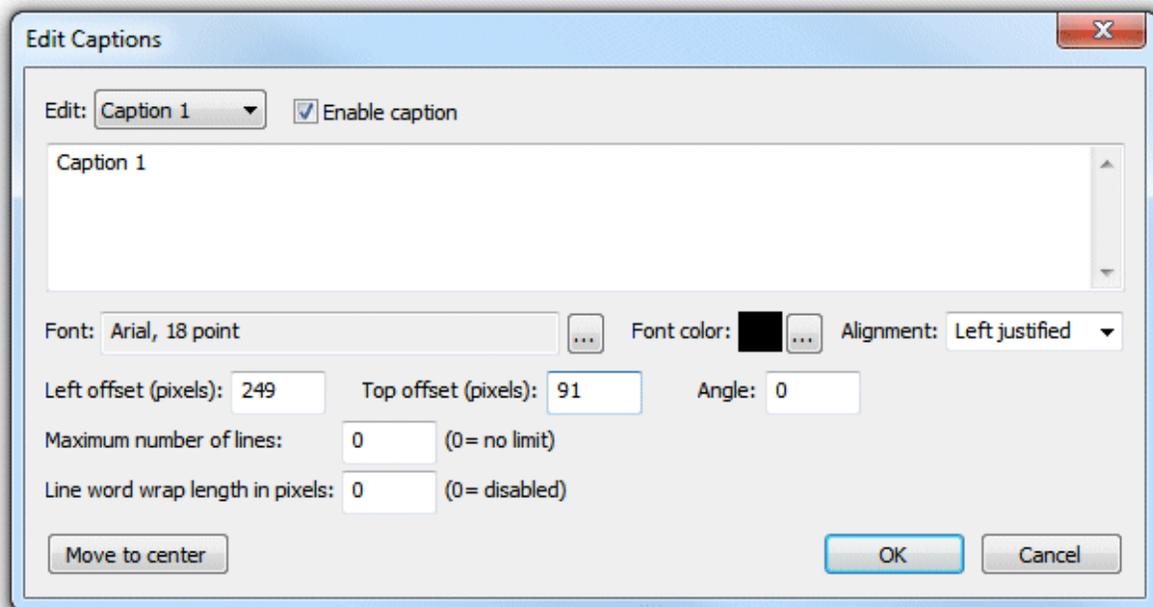
When a logo image is imported the PNG or JPEG image is copied into the current photo booth images folder and its filename is prefixed with "logo_". If the photo booth images folder already contains a file with the same name you are asked whether to overwrite the file. Any copies of the logo in the print layout will be removed from the layout and replaced by a single copy of the new logo image in the center of the layout.

If the photo booth images folder already contains one or more PNG or JPEG images with a logo_ prefix they can be added to the print layout by right clicking on the background of the print layout and selecting "Add logo...".

Please note: logos are added to the print layout after the optional overlay and will appear on top of the photos and overlay.

Editing Caption Positions

Add a caption by clicking on the "Edit captions..." button and the dialog below will be displayed:



You can also edit the caption by right clicking on the caption and selecting "Edit caption..." from the popup menu.

Select the caption you wish to edit using the dropdown box at the top and then check the "Enable caption" checkbox if it is not already checked. The caption should now be displayed highlighted on the print layout (if it isn't visible click on the "Move to center" button). Type in the edit box to change the caption text. Captions span more than one line and can contain tokens such as %d for the date and %t for the time the sequence started, {comment} for the comments entered in the main screen and {filename} for the filename used for the JPEG copy of the print layout. Please see the [section on tokens](#) for a list of tokens available.

Click on the "..." button to the right of the "Font:" label to change the font, size and style or to the right of the "Font color:" display to change the color.

Use the "Left offset" and "Top offset" entries to specify the position of the text. This is specified in pixels from the top left corner of the page. Use the angle entry to specify the angle of the text. This is specified as degrees rotation in a clockwise direction.

The "Maximum number of lines" and "Line word wrap length in pixels" settings can be used to control how long captions are displayed. This is useful when using tokens such as {caption} for Twitter posts where the caption text could be longer than would fit on a single line. The "Line word wrap length in pixels" setting specifies the maximum length of a line of text (in pixels) before it is word wrapped to start a new line of text. The "Maximum number of lines" setting specifies the maximum number of lines that are displayed. This is useful for preventing very long captions from running off the bottom of the page or into other elements on the page. When these options are used the maximum extent of the text is shown by a dashed line.

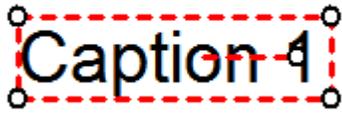
Please see the [Downloading Twitter photos using Hashtag Monitor](#) for an example of how to use these settings.

Normally text is left justified (the "Alignment" dropdown list is set to "Left justified") and its position on the screen is measured from the top left corner of the text area.

If the "Alignment" dropdown list is set to "Centered" the text will be center justified and the position will be measured from the top center of the text area.

If the "Alignment" dropdown list is set to "Right justified" the text will be right justified and the position will be measured from the right side of the text area.

Click on the "OK" button to save the changes. The caption will be selected in the print layout:



The size, position and rotation of the caption can then be edited using the mouse or keyboard cursor keys similar to moving and resizing photos.

Move the caption by moving the mouse to the center of the caption (a hand cursor will be displayed) then hold down the left mouse button and drag the caption to the new position.

Tip: Hold down the shift key to limit the movement to a horizontal or vertical direction only.

Alternatively use the left, right, up and down cursor keys to move the caption one pixel at a time. Hold down the shift key and use the cursor keys to move the caption 10 pixels at a time.

Resize the caption by moving the mouse to one of the circular control handles in the corners (the resize cursor will be displayed) then hold down the left mouse button and drag the corner to resize the caption.

Alternatively hold down the ctrl key and use the up and down cursor keys to resize the caption.

Rotate the caption by moving the mouse to the circular control handle at the end of the red dashed line in the center of the caption (the rotate cursor will be displayed) then hold down the left mouse button and move the mouse to rotate the caption.

Alternatively hold down the ctrl key and use the left and right cursor keys to rotate the caption in 1/2 degree increments. Hold down the ctrl and shift keys and use the cursor left and right keys to rotate the caption in 15 degree increments.

Aligning, sizing and moving multiple items

All the currently defined photos, captions and QR codes can be selected by typing ctrl+A (or by right clicking and selecting "Select all"). Alternatively just photos can be selected by typing Ctrl+P (or by right clicking and selecting "Select all photos"). You can refine the selection by holding down the ctrl key and clicking on the item to be added or removed from the selection.

Tip: All captions can be selected by typing Ctrl+P to select all photos followed by Ctrl+I to invert the selection (this will unselect all photos and select all captions).

A group of selected images can be moved by holding down the left mouse button and dragging them to the new position or by using the keyboard cursor keys.

There are various options for aligning a group of selected items e.g. left align so that a group of images are arranged in a column. To align the currently selected elements right click the mouse on the reference element and select the required alignment from the "Alignment" menu of the popup menu. The selected elements will be moved to align them with the reference element.

Note: If this doesn't produce the required result simply type ctrl+Z to undo the changes.

A group of photos can be spaced evenly by selecting them in order and then right click on any of the selected images and select "Space photos evenly". The order in which the photos are selected is important because the middle photos will be spaced evenly between the positions of the first and last photos in the selection. To select the photos in the right order simply left click on the first photo and then add the remaining photos to the selection in order by holding down the ctrl key and clicking on them.

A group of photos can be set to the same size and angle as a reference photo by selecting them and

then right clicking on the reference photo and selecting "Make photos same size and angle".

Background Color and background.jpg

Normally the page background is white but it can be set to any color by clicking on the "..." button next to the colored square besides the "Show background color" checkbox.

A JPEG image named background.jpg can also be used as a background. This is useful for adding logos or fancy captions to the print or to add frames around the photos. Ideally the background.jpg should be the same size in pixels as the printed output (e.g. 1844 x 1240 pixels for a 6"x4" print from a DNP DS40 printer). The background.jpg will be centered on the page and so if it is bigger the excess will be cropped from the top, left, right and bottom or if it is smaller it won't fill the page.

Tip: Set the background color to the same color as the edges of the background.jpg to avoid white strips on the edges of the page if the background.jpg doesn't fill it.

The background.jpg should be saved in your photobooth images folder (this is displayed in the title bar of the print layout editor window). You can copy a JPEG image into your photobooth images folder by clicking on the "Import background..." button or by dragging and dropping a JPEG file into the print layout editor window.

To delete a background.jpg image first press the "OK" button to save the print layout and close the print layout editor window. Then delete the background.jpg from your photobooth images folder.

Note: If the positions of photos and captions don't quite line up with an imported background.jpg they can be moved by typing ctrl+A (to select all) and then pressing the cursor keys.

Headers and footers

For backwards compatibility with previous releases the print layout can also display a header image named header.jpg at the top of the page and a footer image named footer.jpg at the bottom of the page. It is recommended that you avoid using headers and footers and use the background.jpg instead. This will make it easier save layouts for future reference without them being specific to a particular printer model.

Overlay

An option overlay can be placed over the photos by placing an PNG image named overlay.png in your photobooth images folder. You can copy a PNG image into your photobooth images folder by clicking on the "Import overlay..." button or by dragging and dropping a PNG file into the print layout editor window.

The overlay.png should be saved as a 24-bit color PNG file with an 8-bit alpha channel containing transparency information.

To delete an overlay.png image first press the "OK" button to save the print layout and close the print layout editor window. Then delete the overlay.png from your photobooth images folder.

Please see the section headed "[How to create PNG images using Photoshop](#)" for notes on how to create an overlay.png file.

There is an example PNG file named example_overlay.png in the installation folder which can be used for testing.

Tip: The current layout can be saved as a JPEG file by holding down the Shift and Ctrl keys and then clicking on the "Print Test Page" button. This JPEG image can then be loaded into a photo editor such as Photoshop to add logos, captions etc. and then saved as a background.jpg or overlay.png image which can be imported into the layout.

Auto selection of background and overlay images using image orientation

The orientation of the first photo in the layout can be used to automatically select a different background or overlay image. This is useful if you are shooting tethered and want to be able to use the camera in portrait and landscape orientations and have Hotfolder Prints automatically apply a background to match the camera orientation. To use this option simply append the orientation angle to the name of the background.jpg and overlay.png files e.g. background_90.jpg and background_270.jpg for portrait orientations and background_0.jpg for landscape orientation. Hotfolder Prints will default to the normal background.jpg and overlay.png files if the orientation specific file isn't found.

Example: Hotfolder Prints is monitoring the download folder when shooting tethered with DSLR camera and the photobooth images folder contains the following files:

background.jpg
background_90.jpg
background_270.jpg
overlay.png
overlay_90.png
overlay_270.png

A photo is taken with the camera in normal landscape orientation. Hotfolder Prints looks for background_0.jpg first, can't find it and uses background.jpg instead. Similarly, it looks for overlay_0.png, can't find it and uses overlay.png.

A photo is taken with the camera rotated 90 degrees counter-clockwise (in portrait orientation). Hotfolder Prints looks for background_270.jpg first, finds it, and uses it for the background. Similarly, it looks for overlay_270.png and uses it for the overlay.

A photo is taken with the camera rotated 90 degrees clockwise (in portrait orientation the other way). Hotfolder Prints looks for background_90.jpg first, finds it, and uses it for the background. Similarly, it looks for overlay_90.png and uses it for the overlay.

Please note:

1. If you are also using the [background/overlay suffix for selecting backgrounds and overlays](#) the suffix comes after the orientation e.g. background_90_suffix.jpg
2. If you are shooting tethered using our DSLR Remote Pro for Windows please select "Use Orientation sensor" setting from the View menu in DSLR Remote Pro to ensure the orientation information is stored in the EXIF data of the photo.

Hiding and showing elements

Use the various "Show" checkboxes to control what is displayed in the print layout preview. This is useful if you want to simplify the preview display to make it easier to adjust the photo positions.

Please note: Unchecking the "Show" checkbox for an element only affects the print layout preview and does not affect the final prints.

Undo and Redo

Most actions can be undone by clicking on the "Undo" button or by typing ctrl+Z and redone by clicking on the "Redo" button or typing ctrl+Y.

You can't undo the "Printer setup", "Import background...", "Import overlay..." or "Import layout..." actions.

Exporting and importing layouts

You can save a print layout for future reference by clicking on the "Export layout..." button. This will save the entire layout including any overlay and background images to a single file with a .pblt file extension.

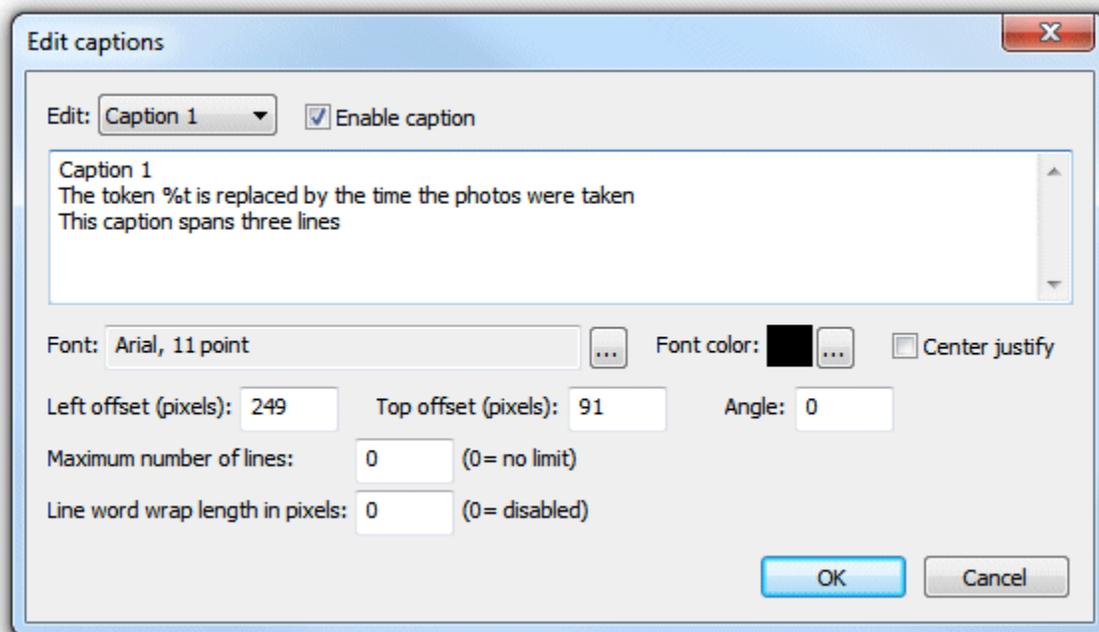
A previously saved layout can be imported by clicking on the "Import layout..." button or by dragging and dropping a print layout template file into the print layout editor window. It should be possible to import layouts defined for any similar printer (i.e. one with the same page size and print resolution) provided the print margins were set accurately.

Please note: If your photobooth images folder contains a background.jpg or overlay.png image they will be deleted or overwritten when importing a print layout.

Please visit the [templates page on our website](#) to download a selection of free templates.

6 Adding Captions

When using the automatic print layout option up to eight captions can be added to the print layout in the print layout editor or by clicking the "captions" button in the preferences dialog. If you are using the custom layout option it is simpler to use the [print layout editor](#) to edit the captions.



Select the caption you wish to edit using the dropdown box at the top and then check the "Enable caption" checkbox if it is not already checked. Captions may span more than one line and can contain tokens such as %d for the date and %t for the time the sequence started, {comment} for the comments entered in the main screen and {filename} for the filename used for the JPEG copy of the print layout. Please see the [section on tokens](#) for a list of tokens available.

Click on the "..." button to the right of the "Font:" label to change the font, size and style or to the right

of the "Font color:" display to change the color.

Use the "Left offset" and "Top offset" entries to specify the position of the text. This is specified in pixels from the top left corner of the page. Use the angle entry to specify the angle of the text. This is specified as degrees rotation in a clockwise direction.

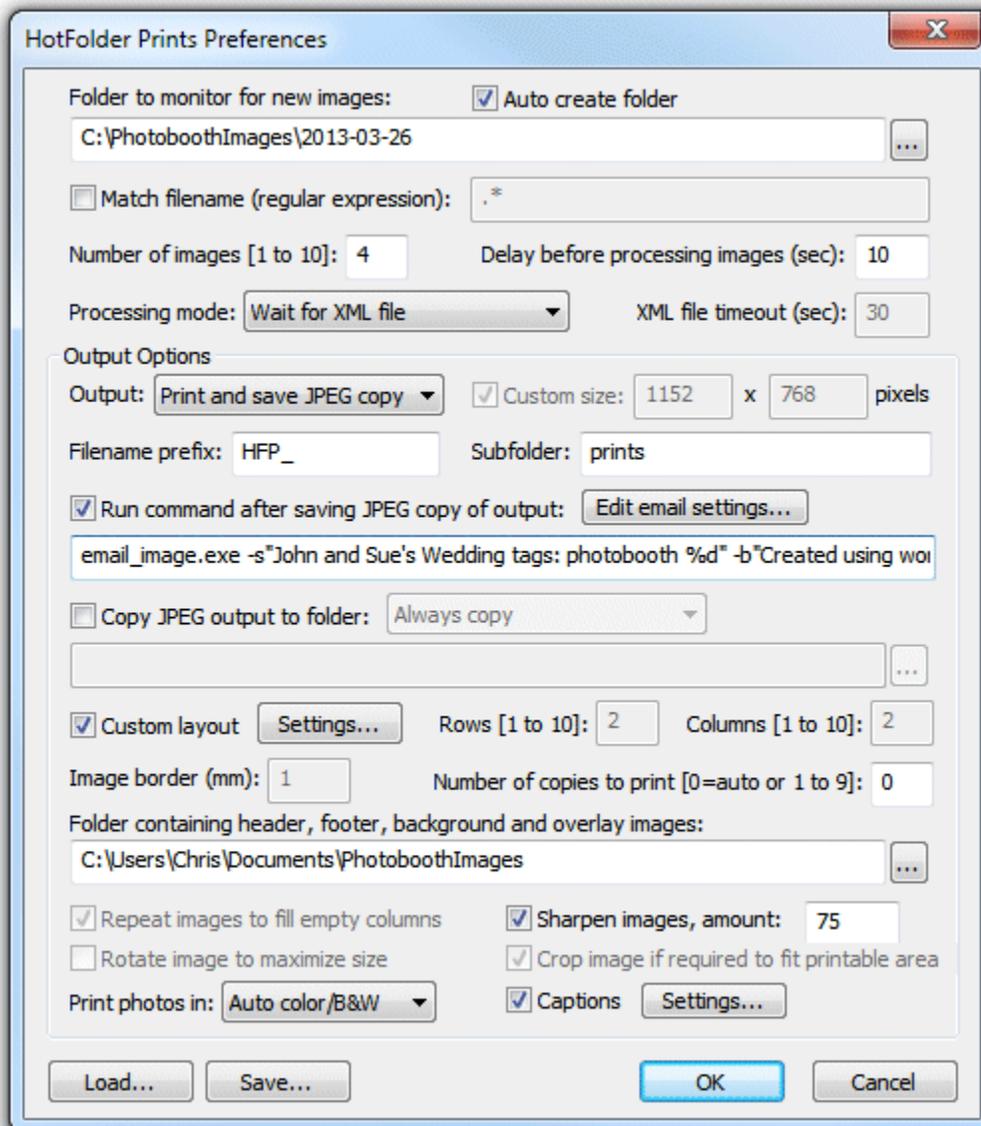
The "Maximum number of lines" and "Line word wrap length in pixels" settings can be used to control how long captions are displayed. This is useful when using tokens such as {caption} for Twitter posts where the caption text could be longer than would fit on a single line. The "Line word wrap length in pixels" setting specifies the maximum length of a line of text (in pixels) before it is word wrapped to start a new line of text. The "Maximum number of lines" setting specifies the maximum number of lines that are displayed. This is useful for preventing very long captions from running off the bottom of the page or into other elements on the page. When these options are used the maximum extent of the text is shown by a dashed line.

Please see the [Downloading Twitter photos using Hashtag Monitor](#) for an example of how to use these settings.

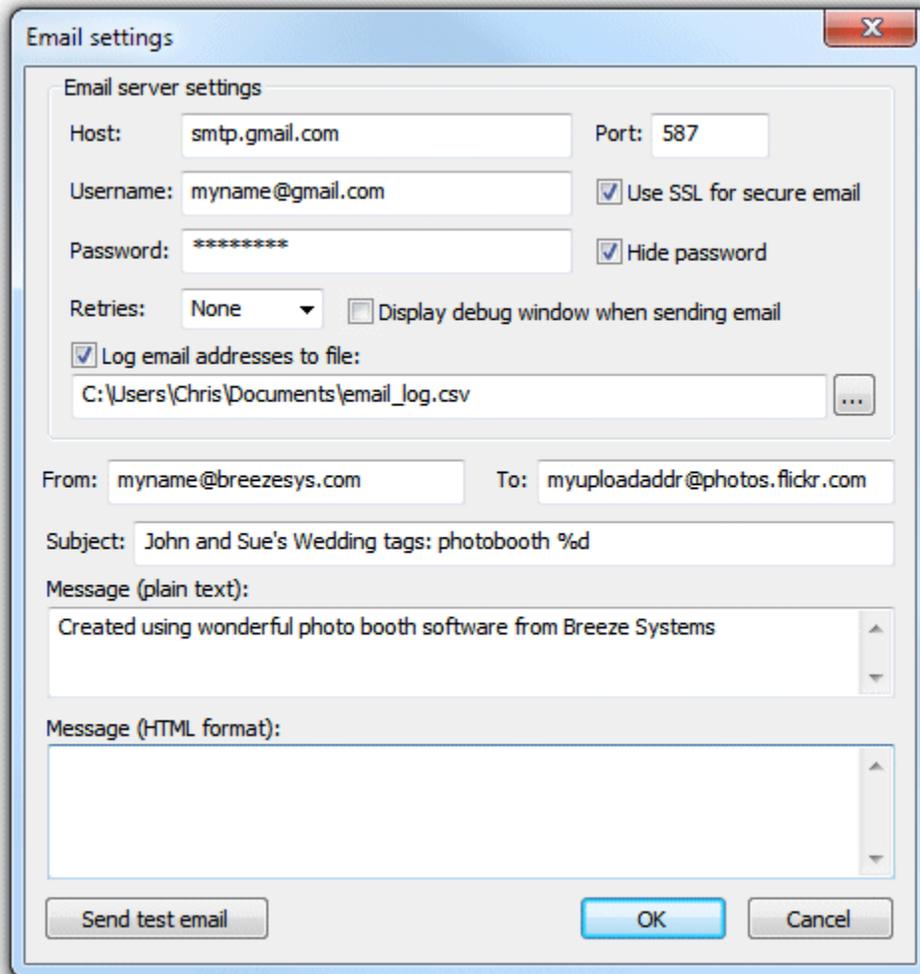
Normally text is left justified and its position on the screen is measured from the top left corner of the text. If the "Center justify" checkbox is selected multiple lines of text will be center justified and the position will be measured from the top center of the text.

7 Emailing Images

When the output option is set to "Print and JPEG copy" or "JPEG copy only" an optional command can be run on the JPEG copy of the layout:



This command is normally used to send an email using the `email_image.exe` utility included with HotFolder Prints. Click on the "Edit email settings..." button to display the email settings dialog:



To send an email you need to specify at least the originator's email address (the "From:" field), the recipient's email address (the "To:" field) and the host name of your email server. Most email servers also require a username and a password to prevent unauthorized users from sending spam emails. For additional security select the "Use SSL for secure email" option to send the email using SSL. The port number should normally be set to 587 when using SSL secure email or 25 otherwise (please check the port numbers used by your ISP). Google's free GMail service is a convenient way to send emails and can be set up using the settings shown above and replacing myname@gmail.com with your GMail email address and entering your password.

The subject and message fields can include any of the standard tokens (e.g. %d for the date). The special token {pathname} is used as a placeholder for the path of the JPEG layout image to be uploaded and is automatically added to the command line by the email settings dialog.

In normal operation no window will be displayed when an email is set. Select the "Display debug window when sending email" if you want to display a window showing information about the sending of the email for debug purposes. If the sending of the email fails for any reason a window containing an error message is displayed for a few seconds. If the internet connection is unreliable the "Retries" setting can be used to set the number of times it attempts to send the email.

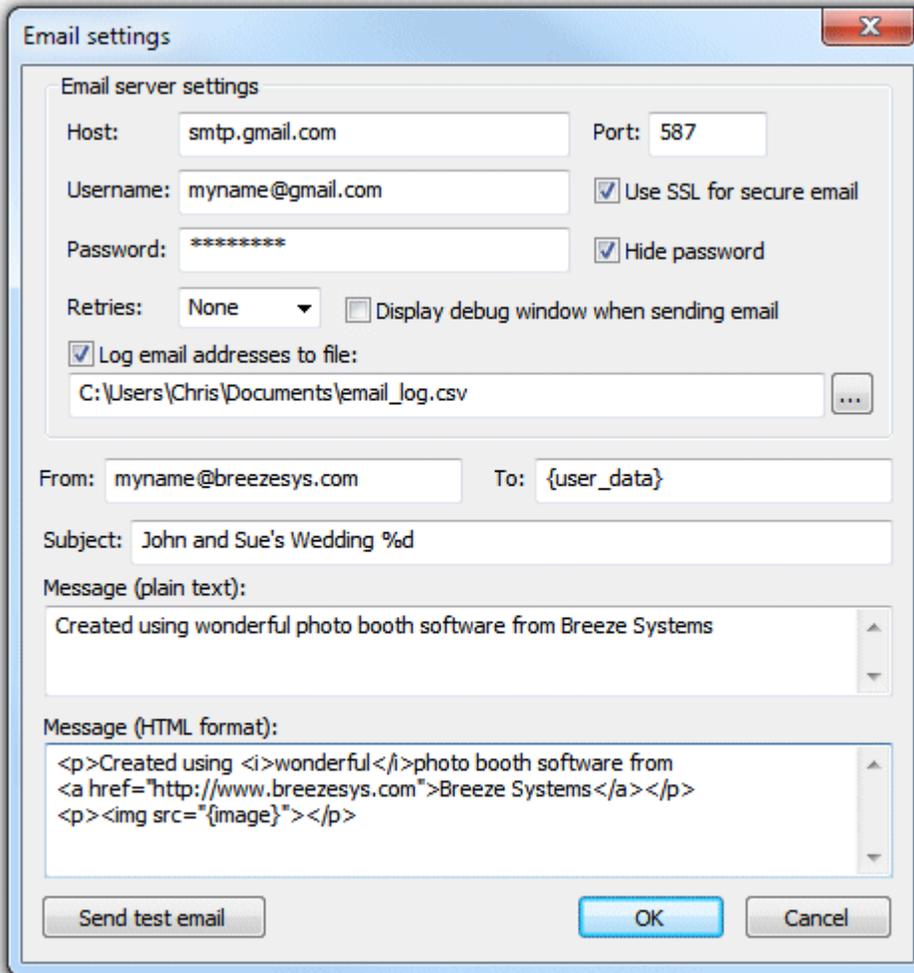
Once the email server settings have been entered a test email can be sent by pressing the "Send test email" button. This will call email_images.exe in debug mode and send a short test email and image to test the connection and settings.

The screenshot above shows typical settings for uploading images to Flickr using Google's gmail mail servers.

The email_image.exe command line email utility has the following options:

- d display debug window when sending email
- o<originator> the originator's email address
- r<recipient> the recipient's email address (where the email is sent to)
- s<subject> optional subject line
- b<body> optional message body (plain text)
- H<body> optional message body (HTML format)
- h<host>:<port> hostname of email server and optional port number
- u<username> username of account on email server
- p<password> password of account on email server
- S send email as a secure email using SSL

Hotfolder Prints will read user data stored in the XML saved by our photobooth software and make this available in the {user_data} token. This allows users to enter their email address using the touchscreen keyboard option in the photobooth and for Hotfolder Prints to format the images for emailing and then send them to the user's email address:



Multiple user email addresses can be processed by setting the "To:" address to {user_data_emails}. When the {user_data_emails} token is used all the user data tokens (i.e. {user_data} and {user2_data}

through {user9_data}) are scanned for correctly formed email addresses and the command is run for each with the email address passed in the {user_data_emails} token. Email addresses must not contain spaces and should start with one or more characters followed by @ and one or more characters followed by . and one or more characters e.g. name@domain.com

Users' email addresses can be saved to a CSV log file for future reference by selecting "Log email addresses to file" and specifying the name and location of the log file. The information is stored in the following format:

<date>,<time>,<email>,<image>,<status>

Where <date> is the date in the form YYYYMMDD, <time> is the time in the form hhmmss, <email> is the user's email address and <status> is "sent" if the email was sent successfully or "fail" if there was an error.

Plain text and HTML format emails

Emails can be sent as plain text only with the image file sent as an attachment or as HTML format emails with the image file embedded in the email. Images can be embedded in an HTML format email by using the tag e.g. . When the email is sent the token {image} is replaced with the URL for the embedded image. Multiple images can be embedded in the email by adding their pathnames to the end of the email command (after {filename}) and accessed in the email using the tokens {image2} for the second image, {image3} for the third image etc.

Logging email failures and sending emails after an event

If the internet connection at an event is unreliable or not available Hotfolder Prints may not be able to send the emails during the event but can save a batch file which can be run later when a reliable internet connection is available to send the emails. To enable the writing of the failed emails batch file select the "Log email addresses to file" option and specify the name of the log file. In addition to writing the log file, the commands to send any failed emails will be written to a separate log file which has the same name as the main log file but with _failed.log appended e.g. in the screenshot above the main log file is C:\Users\Chris\Documents\email_log.csv and the failed emails log file would be named C:\Users\Chris\Documents\email_log_failed.log. To send the failed emails simply rename the log file to give it a .bat file extension, e.g. C:\Users\Chris\Documents\email_log_failed.bat, and then run the batch file by double clicking on it in Windows Explorer.

XML file containing user data

Hotfolder reads the email address from an XML file in the folder being monitored and with the same name as the first photo e.g. if you are running a photobooth which takes sets of four photos saved a folder named D:\Photobooth\20121210 with the following filenames:

D:\Photobooth\20121210\IMG_0001.JPG

D:\Photobooth\20121210\IMG_0002.JPG

D:\Photobooth\20121210\IMG_0003.JPG

D:\Photobooth\20121210\IMG_0004.JPG

Hotfolder prints will look for an XML file named D:\Photobooth\20121210\IMG_0001.XML. The touchscreen keyboard option in Breeze Systems' photobooth software will automatically save the information entered by the user to the XML file to be picked up by Hotfolder Prints when it processes the images. If the photobooth software is setup to display the touchscreen keyboard after taking the photos you need to make sure Hotfolder Prints doesn't process the images before users have had time to enter their email address. There are two ways to do this:

1. Set the "Delay before processing images:" to a long enough time to allow users to enter their details e.g. 60 secs
2. Select the "Wait for XML file before processing images" option so that Hotfolder Prints won't

process the images until the XML file has been written and the user data is available

Option 2 is the recommended method to use because it will start processing the images as soon as the XML file is written whereas option always waits for a "safe" amount of time which may cause a delay. However, if you use the "Wait for XML file" option you do need to make sure that the XML file is written otherwise Hotfolder Prints will keep waiting for the XML file and will stop processing new images. You can avoid this problem by setting a suitable timeout e.g. 120 secs before Hotfolder Prints gives up waiting for the XML file.

Recommended settings: Select "Wait for XML file before processing images" and set a suitable timeout of 120 secs (or more) just in case the XML file isn't written.

Note: Hotfolder Prints looks for the XML file in the same folder as the JPEG images but it can't find the XML file it looks in the parent folder. This is useful when using green screen with Breeze Systems' photo booth software because the XML file and the unmodified JPEG images from the camera are saved in the same folder and a green screened copy of the photos is saved in a subfolder named green screen e.g.

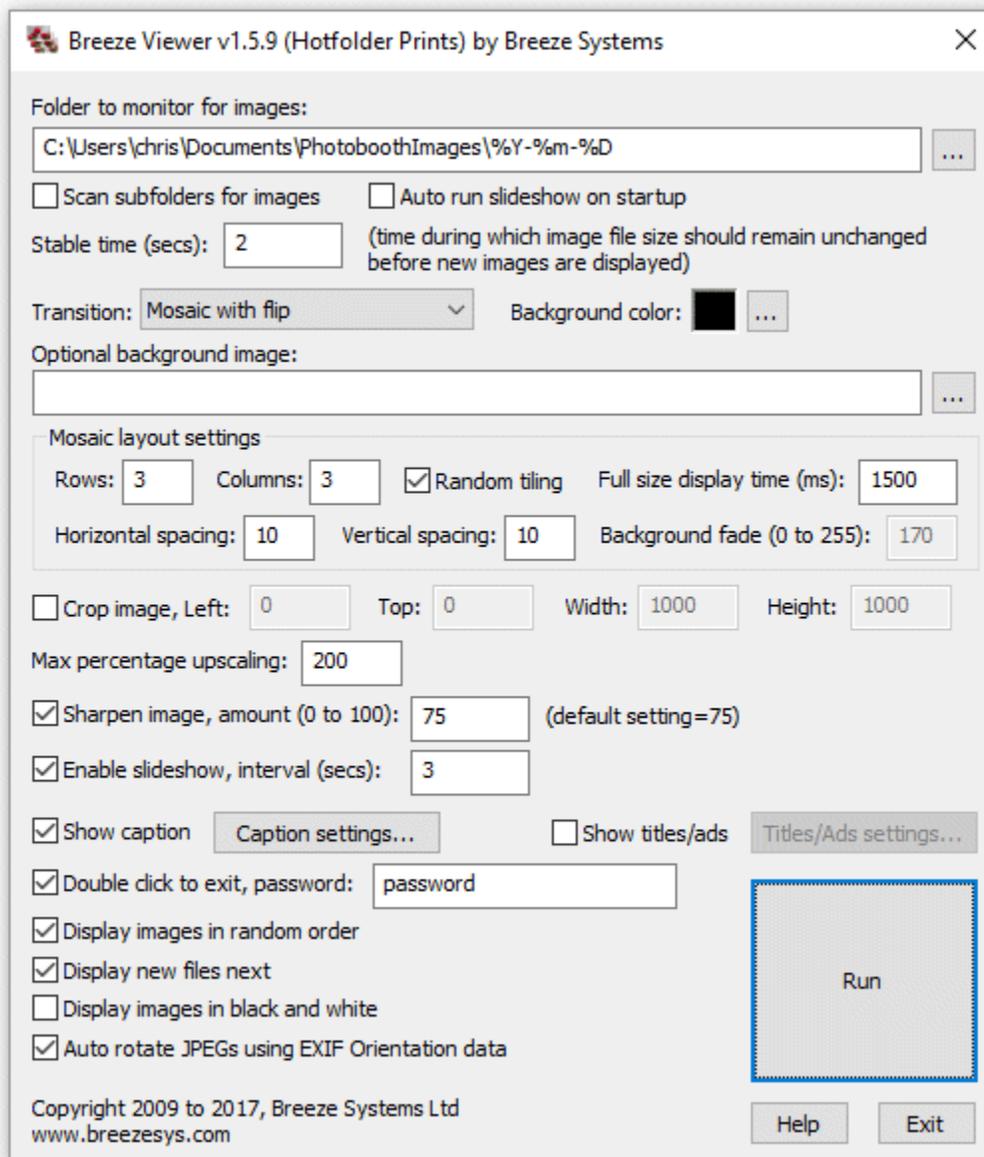
D:\Photobooth\20121210\IMG_0001.JPG - unmodified photo 1 downloaded from the camera showing the green background
D:\Photobooth\20121210\IMG_0002.JPG - unmodified photo 2 downloaded from the camera showing the green background
D:\Photobooth\20121210\IMG_0003.JPG - unmodified photo 3 downloaded from the camera showing the green background
D:\Photobooth\20121210\IMG_0004.JPG - unmodified photo 4 downloaded from the camera showing the green background
D:\Photobooth\20121210\IMG_0004.XML - XML file containing information entered by the user with the photo booth software's touchscreen keyboard
D:\Photobooth\20121210\greenscreen\IMG_0001.JPG - green screened copy of photo 1 with the green background replaced with the green screen background image
D:\Photobooth\20121210\greenscreen\IMG_0002.JPG - green screened copy of photo 2 with the green background replaced with the green screen background image
D:\Photobooth\20121210\greenscreen\IMG_0003.JPG - green screened copy of photo 3 with the green background replaced with the green screen background image
D:\Photobooth\20121210\greenscreen\IMG_0004.JPG - green screened copy of photo 4 with the green background replaced with the green screen background image

With this setup you want to Hotfolder Prints to monitor the D:\Photobooth\20121210\greenscreen folder so that it processes the green screened images not the original photos from the camera which show the green background. Hotfolder Prints will still find the XML file because it looks for the XML file in the D:\Photobooth\20121210\greenscreen folder first and then tries the parent folder D:\Photobooth\20121210

8 Running a slideshow using Breeze Viewer

Breeze Viewer is a standalone program for monitoring the contents of a folder and displaying JPEG images or animated GIFs in a slideshow. New images added to the folder are automatically added to the slideshow after a preset "stable time". Breeze Viewer displays the images as a full screen slideshow with a black background and an optional caption showing the image filename. It can be setup to display the newest image only or to run a slideshow of all the images in the folder being monitored.

The following dialog is displayed when Breeze Viewer is run:



First select the folder to be monitored for images. When new images are found in the folder being monitored they are added to the slideshow and images deleted from the folder are removed from the slideshow. If the "Scan subfolders for images" option is selected BreezeViewer will also scan subfolders for images to include in the slideshow.

Tokens for the date can be used when specifying the folder to be monitored for images e.g. C:\Users\Chris\Documents\PhotoboothImages\%Y-%m-%D. Please see the [section on tokens](#) for details of date based tokens.

Select the "Auto run slideshow on startup" if you would like the slideshow to start automatically when Breeze Viewer is run.

The normal way to exit the slideshow is to press the escape key on the keyboard, but this can be a problem if the slideshow is running on a tablet PC which doesn't have a keyboard. If this is a problem, you can select the "Double click to exit" option to exit the slideshow by double clicking in the bottom right corner of the screen. Enter a password in the "password:" edit box to prevent users from being

able to exit the slideshow. When a password is defined a touchscreen keyboard asking for the password will be displayed when double clicking in the bottom right corner of the screen.

The "stable time" is the number of seconds the file size must stay the same before the image is displayed by Breeze Viewer. This can be set to a low value such as 2 seconds if the images are simply being copied into the folder from another folder on the disk. A longer value is useful if the images are being transferred by FTP from a remote computer where network delays may cause the transfer to pause for several seconds. This will prevent Breeze Viewer from trying to display an image which has only been partially transferred from the remote computer.

The transition between images can be set to one of the following:

"None" - images are displayed instantly

"Vertical slide" - the next image slides down from the top of the screen and pushes the current image off the bottom

"Diagonal slide" - the next image slides down from the top, right of the screen and pushes the current image off the bottom, left

"Horizontal slide" - the next image slides down from the right of the screen and pushes the current image off the left

"Fade to black" - the current image fades to black then the screen fades from black to the next image

"Dissolve" - the current image dissolves into the next image

"Flip" - the screen flips like turning a playing card to hide the current image and reveal the next image

"Cube" - the screen rotates like a cube to hide the current image and reveal the next image

"Random slides" - randomly uses a vertical, horizontal or diagonal slide for each transition

"Random" - randomly uses one of the above transitions

"Mosaic" - displays a mosaic of images on the screen using the specified number of rows and columns

"Mosaic with fade" - same as mosaic, uses fade to black when switching images

"Mosaic with dissolve" - same as mosaic, uses dissolve when switching images

"Mosaic with zoom" - same as mosaic, but displays each image full screen first then zooms it down to its mosaic display position

"Mosaic with zoom + bg fade" - same as "mosaic with zoom", but fades the mosaic background when displaying the zoomed image. The "Background fade" setting specifies the amount by which the background is faded (0=no fade, 255=fade to black)

"Mosaic with flip" - same as mosaic, but when updating an image the old image is flipped out and the new image flipped in

Please note: some graphics cards may have limited support for the graphics acceleration required for some of the slideshow transitions and the slideshow may run very slow. Please use the "None" or "Mosaic" slideshow transitions if you experience performance problems.

The background color used for the slideshow can be changed by clicking on the "..." button to the right of the "Background color:" display.

The slideshow can be displayed on an optional JPEG background image by entering the full pathname of image in the "Optional background image:" text box or by clicking on the "..." button and selecting the background file. When the slideshow runs the background image will be resized to fit the screen. If the background image doesn't have the same aspect ratio as the screen the background color will be visible above and below or to the left and right of the background image.

When one of the mosaic layout transitions is selected the "Mosaic layout settings" can be used to adjust the layout. Use the "Rows" and "Columns" settings to specify the number of rows and columns of photos to show. When the "Random tiling" option is selected the photos are updated in random positions on the display. When it is not selected the photos are placed in order from the left to right and top to bottom. The horizontal and vertical spacing options allow the spacing between photos to be adjusted. When using the mosaic with zoom options the "Full screen display time (ms):" setting specifies how long the zoomed image is displayed on the screen before it is displayed in the mosaic e. g. set this to 2000 to display the full size image for 2 seconds.

Images can be cropped before they are displayed by selecting the "Crop image" checkbox and

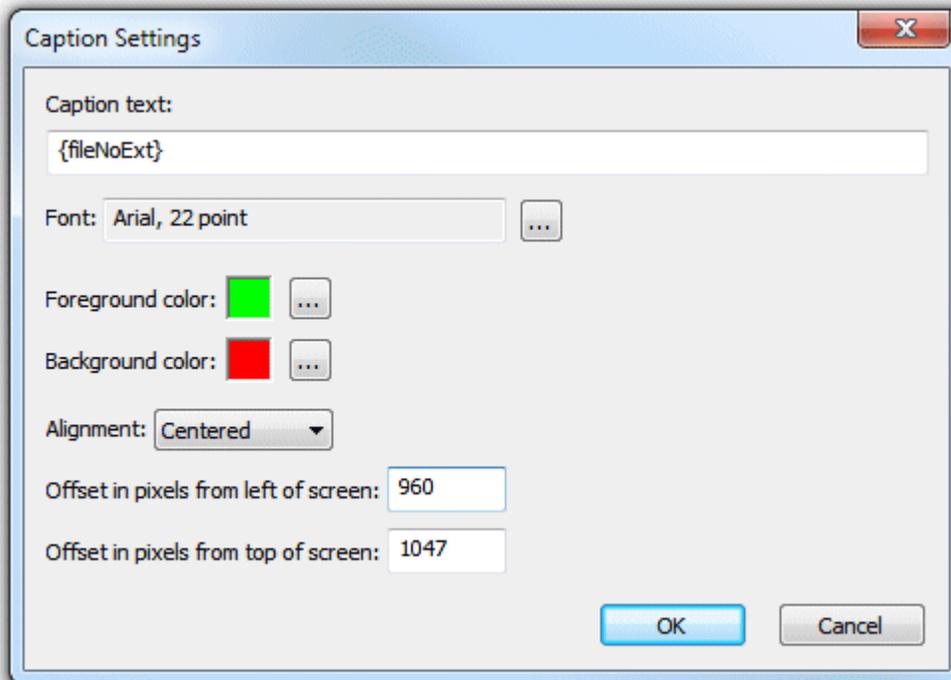
specifying the crop area using the "left", "top", "width" and "height" settings. This option is useful if you are running a slideshow of photos from a photo booth setup to print double strips of 4. You can use the crop option to crop the double strip of 4 into a single strip for display and then maybe use the mosaic display option to display several strips at a time. For example suppose the photo booth is printing double strips of 4 photos on 6"x4" paper @ 300 dpi. The print layout will be 1228 x 1864 pixels in size, including the printer margins, and this can be cropped into a single strip by setting left=14, top=16, width=600 and height=1800.

The "Max percentage upscaling" setting controls the amount by which images can be scaled up to fill the screen. This setting is useful when displaying animated GIF files which may be too small if displayed at their normal size. The default setting is 100% which means that images are not scaled up beyond their normal size. It is recommended that this setting is not set to more than 300% otherwise the images may appear pixellated.

Select "Sharpen image" and the sharpening amount to sharpen the displayed images. This uses the same HQ sharpening method as BreezeBrowser Pro. The default setting is 75.

Select "Enable slideshow" and a suitable interval to display all the images in the folder in a continuous loop. The interval in seconds can be specified in the "Interval (secs):" text box. Use a negative value to specify the interval in milliseconds e.g. -200 to display a slide every 200ms (or 5 slides per second). Please note that minimum slideshow interval may be limited by the speed of the computer.

Select "Show caption" to display the full pathname of each image in the top left corner of the screen. Click on the "Caption settings..." button to specify the caption text, font, color and placement:



The caption text can use the following tokens to display information about the currently displayed image:

{pathname} - the full pathname of the image including drive letter, folder and filename e.g. C:\photobooth\2012-12-16\IMG_0001.JPG

{dir} - the pathname of the folder being monitored for images e.g. C:\photobooth\2012-12-16

{file} - the filename of the image including the file extension e.g. IMG_0001.JPG

{fileNoExt} - the filename of the image without the file extension e.g. IMG_0001

{time} - the file creation time of the image in 12 hour format e.g. 9:45:07

{time24} - the file creation time of the image in 24 hour format e.g. 21:45:07

%a to %z - various formatting codes to display the date and time using the file creation time (Google strftime for details) e.g. %a gives the abbreviated weekday name

{left,n,str} - Extracts the first n characters from str (which can be a string or token) e.g. {left,4,{file}} gives the first 4 characters of the filename

{mid,n,m,str} - Extracts m characters starting from the n'th character from str (which can be a string or token) e.g. {mid,1,2,{file}} gives the 2nd and 3rd characters of the filename

{right,n,str} - Extracts the last n characters from str (which can be a string or token) e.g.

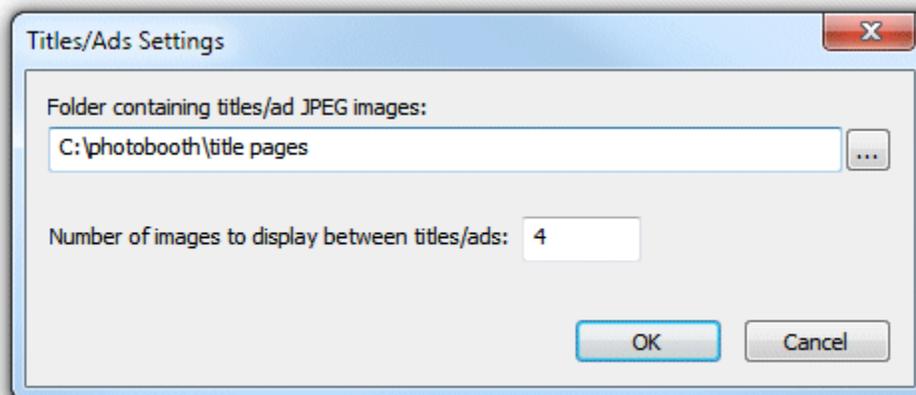
{right,4,{fileNoExt}} gives the last 4 characters of the filename

Click on the "..." button to the right of the font display to select the font type, size and style. Then click on "..." buttons to the right of the foreground and background colors to select the colors.

Use the alignment dropdown list to select the text alignment (left justified, centered or right justified). Then define the placement of the text using the left and top offset values.

When captions are not selected the image is displayed on a plain black background.

Select "Show titles/ads" to display title pages or adverts every few images during the slideshow. Click on the "Titles/Ads settings..." button to display the titles/ads settings page:



The title pages/adverts need to be in a different folder to the folder that is being monitored for slideshow images and can be selected by clicking on the "..." browse button on the right. The frequency with which the titles/ads are displayed is set using the "Number of images to display between titles/ads" field. When the slideshow is started it scans the folder containing titles/ad JPEG images and sorts them so that they are displayed in alphabetical order.

Select "Display images in random order" to display each image in a random order. To ensure each image is displayed this works in a similar way to shuffling a deck of cards then dealing each card in turn before shuffling again and repeating the process. You can also select the option to "Display new files next" when "Display images in random order" is selected. This will ensure that new files added to the folder are displayed as the next image rather than in random order.

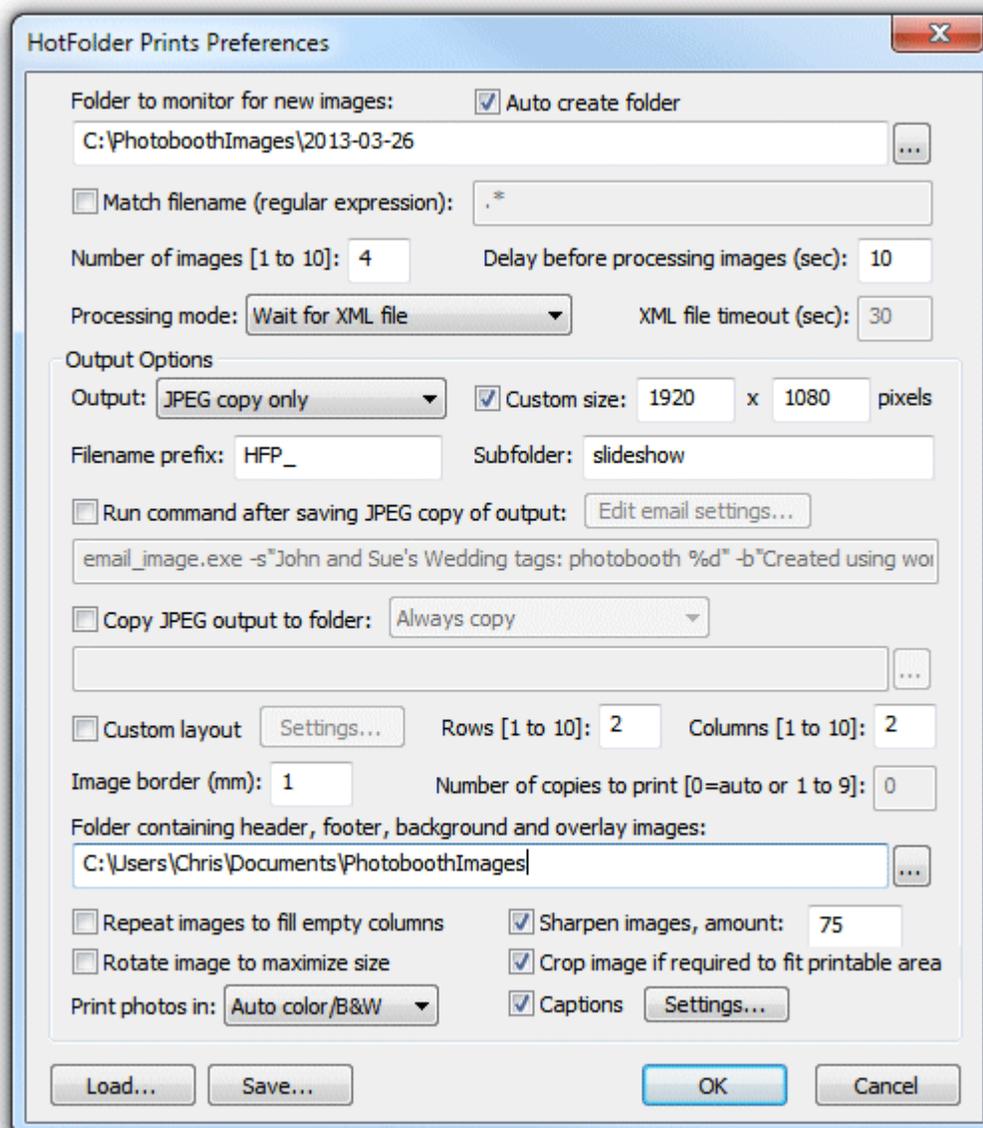
Normally images are automatically rotated using the rotation value read from the EXIF Orientation tag in the image shooting data. Uncheck the "Auto rotate JPEGs using EXIF Orientation data" option to display images without rotation.

Press the "Run" button to start the viewer using the current settings. On a dual monitor system drag the settings dialog to the monitor you wish to display the images on before pressing the "Run" button. If the "Auto run" option is selected Breeze Viewer will automatically start running the slideshow using the saved settings when it starts up.

Press the "Esc" key to exit the slideshow and return to the settings dialog.

Using Hotfolder Prints to prepare images for Breeze Viewer

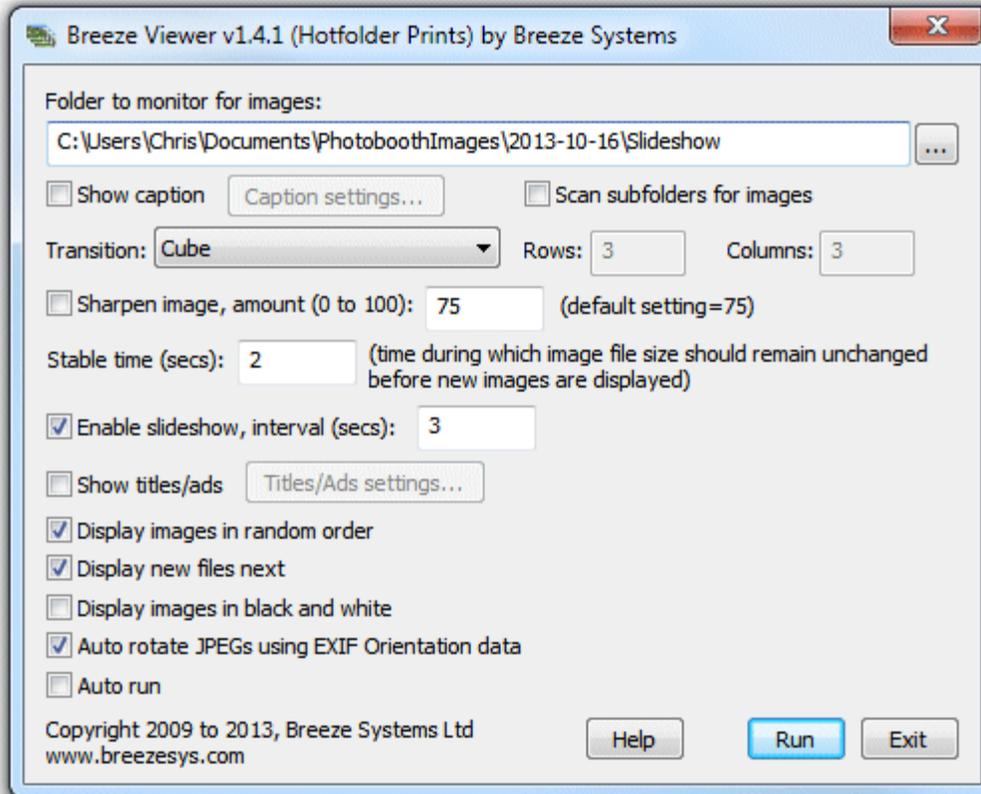
A popular use for Breeze Viewer is to display a slideshow of images taken in a photo booth at an event. The simplest way to do this would be to set up the photo booth to make a JPEG copy of the print layout and for Breeze Viewer to display these JPEGs. However, this is something of a compromise because the JPEG copy of the print layout from the photo booth is optimized for printing not for display on a monitor. An alternative option would be to use Hotfolder Prints to create a layout which is optimized for screen display and to display these images in the slideshow. This can be done as follows: first check the resolution of the screen displaying the images, e.g. a 1080p HDTV display has a resolution of 1920x1080 pixels. Then set up Hotfolder Prints to monitor the folder where the photo booth images are saved, and to lay them out on a screen sized page and save them in a subfolder named "slideshow" for Breeze Viewer to display:



Hotfolder Prints settings for creating a layout for a slideshow. The output option is set to "JPEG only" and a custom size of 1920x1080 pixels is used to match the screen size of the monitor displaying the

slideshow. The subfolder is set to "slideshow" so that the JPEG layout images are saved in a separate folder.

The Breeze Viewer settings to display the slideshow would look something like:



Breeze Viewer slideshow settings to display images saved in the slideshow subfolder by Hotfolder Prints. Note that image sharpening is disabled because the images have already been sharpened by Hotfolder Prints

The images formatted for the slideshow would look something like this:



Whereas the JPEG copy of the print layout saved by the photo booth software would look more like this:



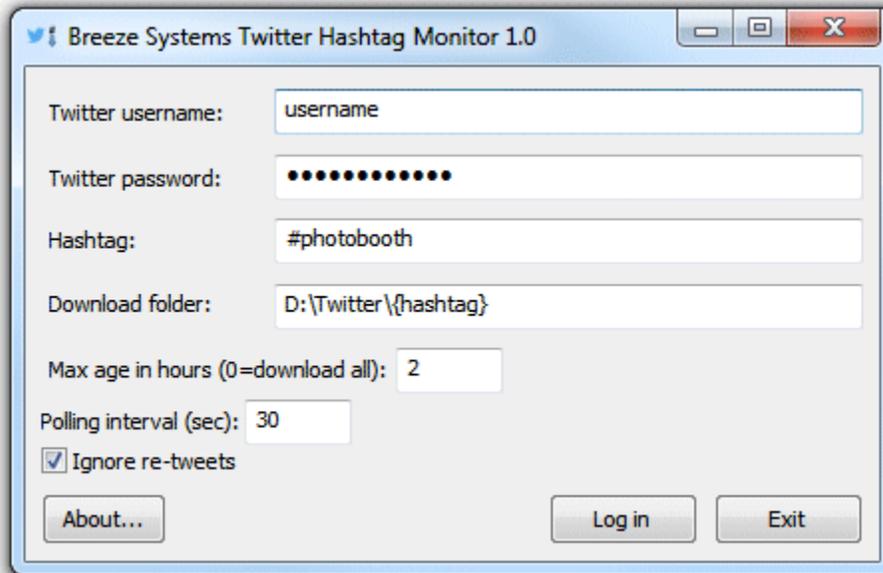
9 Downloading Twitter Photos

Hotfolder Prints comes with a Twitter hashtag monitor program. The program works by logging into Twitter and searching tweets that match a particular hashtag. When a matching post or tweet is found the photo is downloaded to the PC together with the profile picture and an XML summary file containing information such as the username, date and time of the post or tweet and the caption. This information can then be processed automatically by Hotfolder Prints to create a page showing the Twitter posting which can be printed automatically or saved as a JPEG image for viewing in a slideshow using Breeze Viewer or in kiosk software (such as our Breeze Kiosk software) for printing, emailing or texting.

The combination of the Twitter hashtag monitor and Hotfolder Prints provides a fully automated Twitter hashtag printing system. An interactive system which downloads and displays the photos and lets the user choose which photos to print, email or text can be created by adding our Breeze Kiosk software. Please note: Breeze Kiosk is a separate product which can be purchased from our website: www.breezesys.com/BreezeKiosk

Running the Twitter Hashtag Monitor

Double click on the Twitter Hashtag Monitor program icon on the Windows desktop to display the program settings:



You can either enter your Twitter username and password here or enter them later when the Twitter login screen is displayed. If you enter them here they will be saved with the other settings and loaded the next time Twitter Hashtag Monitor is run. Leave the "Twitter username:" and "Twitter password:" fields empty if you do not wish your Twitter username and password to be saved.

Enter the hashtag to monitor in the "Hashtag:" field (the hashtag can be specified with or without the #).

Enter the location where the photos should be saved in the "Download folder:" field. This can include tokens for the hashtag or date e.g. to download photos into a folder named using the today's date and the hashtag you could set it to something like:

D:\Twitter\%d_{hashtag}

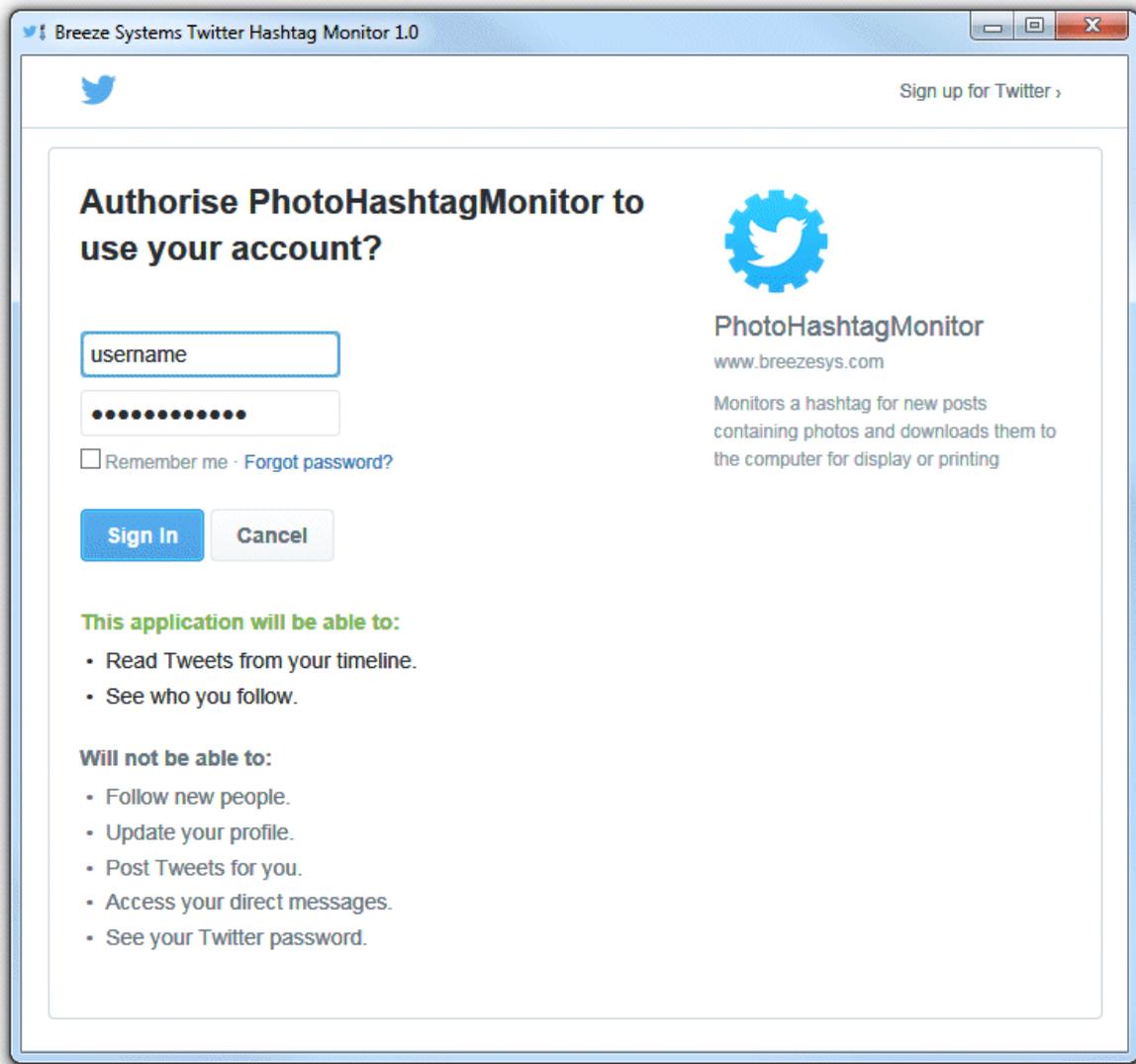
Please see the [section on tokens](#) for a list of date related tokens.

Set the maximum age in hours for downloaded photos. Only photos with a creation time less than this value will be downloaded.

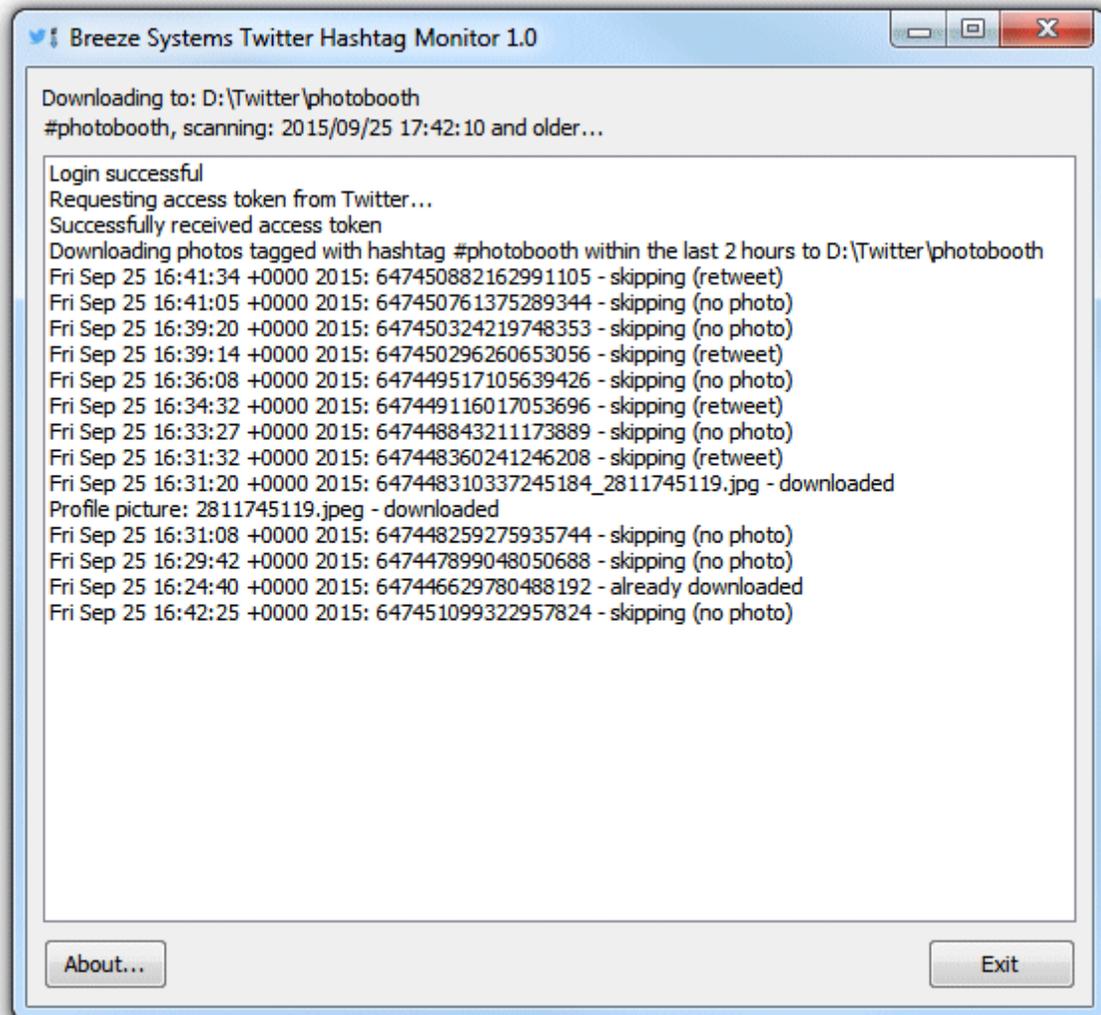
If the maximum age is set to 0 all the "recent and popular" photos with the hashtag will be downloaded. Please note that the Twitter search API will only return tweets that are "recent and popular" over the last 24 hours or so and may not return all tweets using the given hashtag. Once it has downloaded all the old tweets returned by the Twitter's search API the hashtag monitor will check for new tweets using the "Polling interval (sec):".

Many tweets on Twitter are re-tweets and this can result in the same photo being downloaded multiple times. Set "Ignore re-tweets" to avoid this.

Press the "Log in" button to start the download process. This will open a window with the Twitter login screen:



Enter your Twitter username and password if you haven't already done so and click on the "Sign in" button to login to Twitter and authorise the PhotoHashtagMonitor to download tweets using your account. After logging in the Twitter Hashtag Monitor will start scanning Twitter for tweets containing the search hashtag and a photo:



Click on the "Exit" button or the window's close button to exit Twitter Hashtag Monitor.

What is downloaded

When the Twitter Hashtag Monitor finds a tweet that matches the hashtag, contains a photo and matches maximum age and re-tweet settings it downloads the photo to the download folder and also the author's profile picture to a subfolder named profile_picture if it hasn't already been downloaded. Twitter hashtag monitor also creates an XML file in the download folder with the information about the posting. The photo is given the same filename as the Twitter tweet id and the profile picture is named using the user id. The XML information file is given the same filename as the photo (but with a .xml file extension).

e.g. the posting 647453302949746688_2783113695 downloaded to D:\Twitter would result in the following three files being created:

D:\Twitter\647453302949746688_2783113695.jpg

D:\Twitter\647453302949746688_2783113695.xml

D:\Twitter\profile_picture\2783113695.jpg

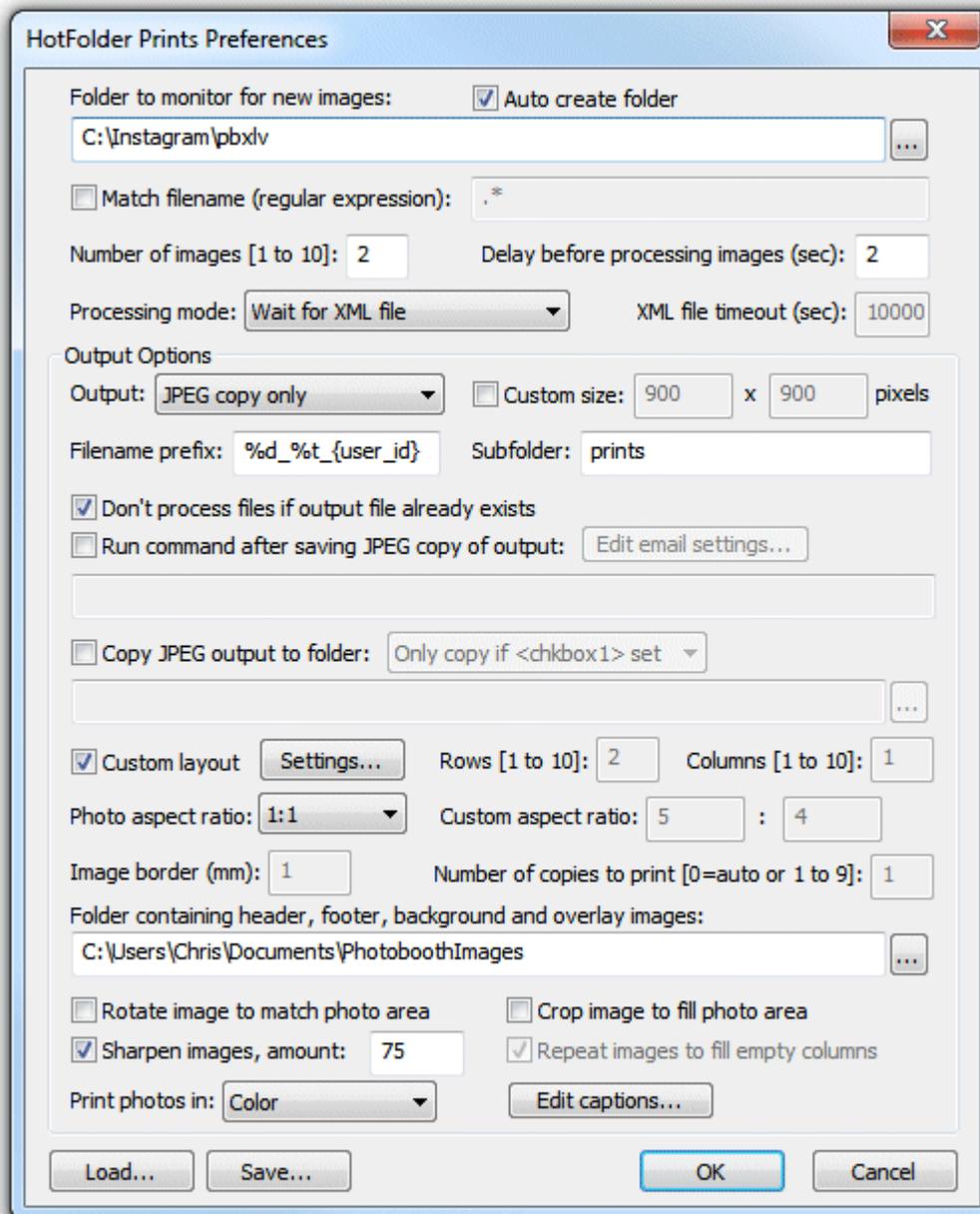
The XML information file has the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<breeze_systems_photobooth version="2.0">
  <twitter_photo_information>
    <time_t>1443199799</time_t>
    <date>2015/09/25</date>
    <time>17:49:59</time>
    <created_at>Fri Sep 25 16:49:59 +0000 2015</created_at>
    <photo>647453302949746688_2783173695.jpg</photo>
    <caption>The tweet text</caption>
    <user_id>2783113695</user_id>
    <post_id>647453302949746688</post_id>
    <username>jdoe123</username>
    <full_name>John Doe</full_name>
    <hashtag>photobooth</hashtag>
    <profile_picture>profile_picture/2783173695.jpeg</profile_picture>
  </twitter_photo_information>
</breeze_systems_photobooth>
```

Using Hotfolder Prints to format the photos

Hotfolder Prints can be setup to automatically format the photos downloaded by the Twitter hashtag monitors. The layout can be printed automatically or saved as a JPEG image for displaying in a slideshow or touchscreen kiosk.

Suggested Hotfolder Print settings for processing Twitter tweets are shown below:



The "Folder to monitor for new images:" should be set to the folder where the Twitter Hashtag Monitor downloads the photos.

The number of images should be set to 2 to allow print layouts with both the photo and the author's profile picture.

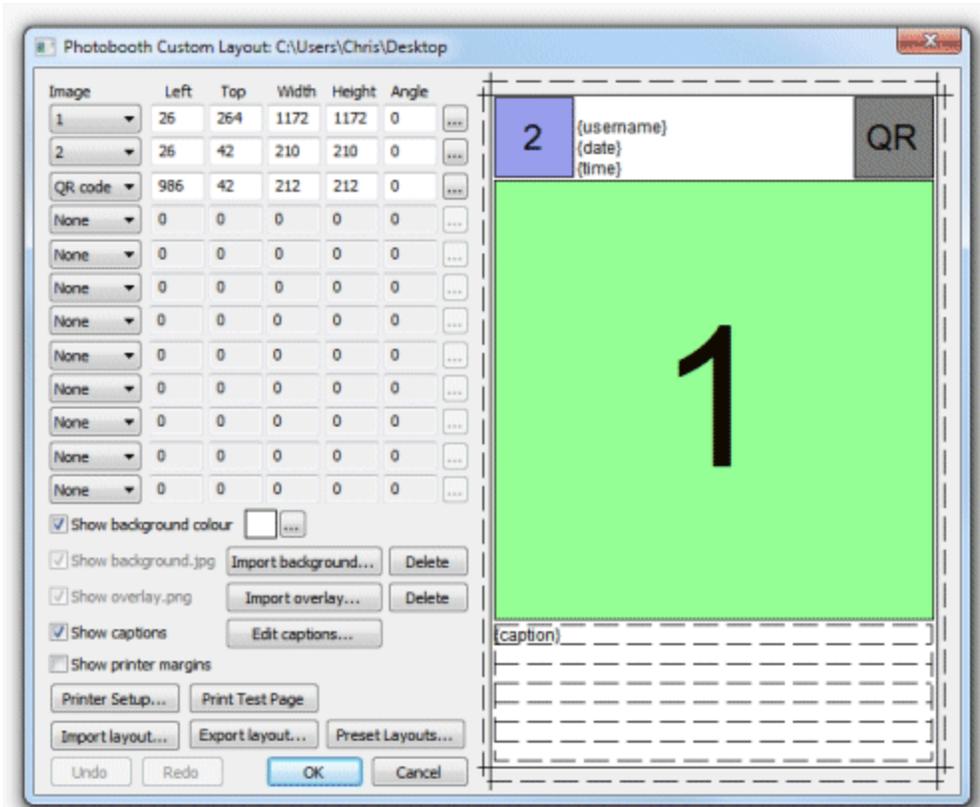
The "Processing mode:" must be set to "Wait for XML file" so that Hotfolder Prints can read the posting information.

The "Filename prefix:" should be set to a value which gives unique filenames for the JPEG copy of the printed output e.g. %d_%t_{user_id} which uses the date, time and user id to name the file.

It is recommended that the "Don't process files if output file already exists" option is selected. This will allow the File->Rescan XML files option to be used without duplicate copies of the output files being

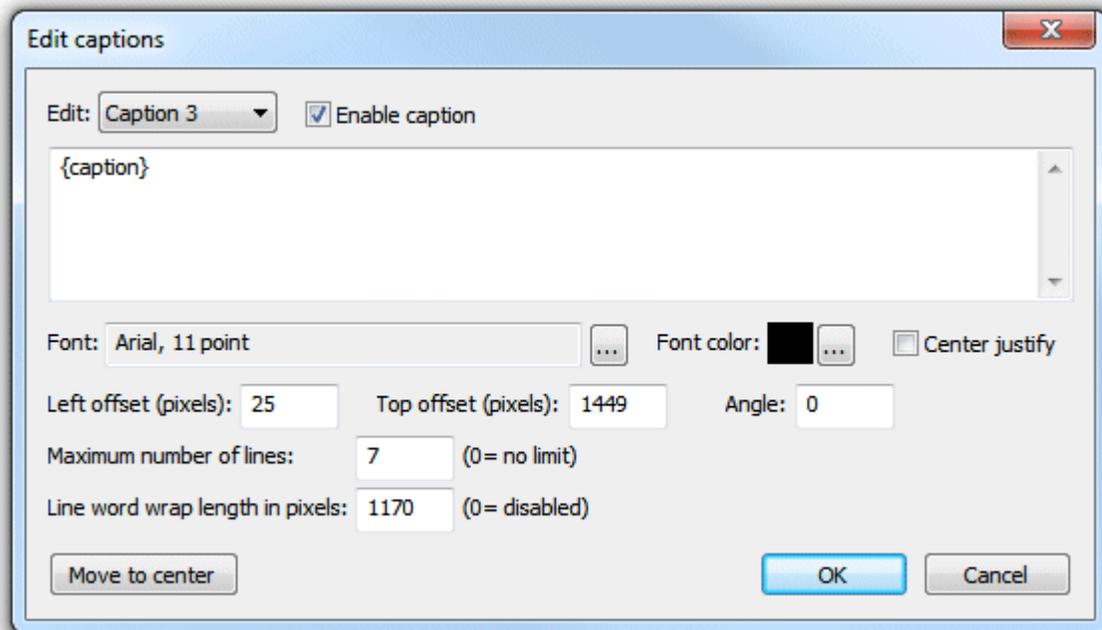
created. This is useful if Hotfolder Prints is run after Hashtag Monitor has downloaded the images.

Next select the "Custom layout" option and click on the "Settings..." button to create the print layout. The settings below show a layout for 6x4 prints made using a 300dpi dyesub printer:



When designing a Twitter print layout image 1 represents the photo and image 2 represents the author's profile picture. The layout above also includes a QR code which can be scanned by a smart phone to access a web page (this is covered in more detail latter).

Two captions are defined in the layout above. The first caption uses the {username}, {date} and {time} tokens to print the author's username and that date and time the photo was posted. The tokens are replaced with values for the photo being processed. The second caption uses the {caption} token to display the photo's caption. Captions can be long and so the "Line word wrap" and "Maximum number of lines" settings are used make sure the caption fits the page:



The following tokens can be used in captions and QR codes from Twitter downloads:

{date} date the photo was tweeted on Twitter e.g. 2020/12/28
{time} time the photo was posted on tweeted on Twitter e.g. 22:05:29
{photo} filename of the photo e.g. 162876187264876_87687656.jpg
{photo_id} id of the photo e.g. 162876187264876_87687656
{user_ame} author's Twitter username e.g. johndoe
{full_name} author's full name e.g. John Doe
{user_id} author's Twitter user id e.g. 87687656
{caption} Twitter tweet text e.g. Great party! #wedding20150115
{captionNoURL} Twitter tweet text with the trailing URL removed
{hashtag} the search hashtag
{twitter} 1 if this is a Twitter tweet else empty
}

You can also use the [tokens on this page](#).

The example layout above includes a QR code which can be defined using a fixed URL (e.g. a link to your website or your client's website) or a dynamically generated URL (e.g. a date based link a photo gallery on your website or links to display the author's other tweets). Some example URLs are given below:

URL for QR codes to display the author's other tweets:

https://twitter/{user_id}

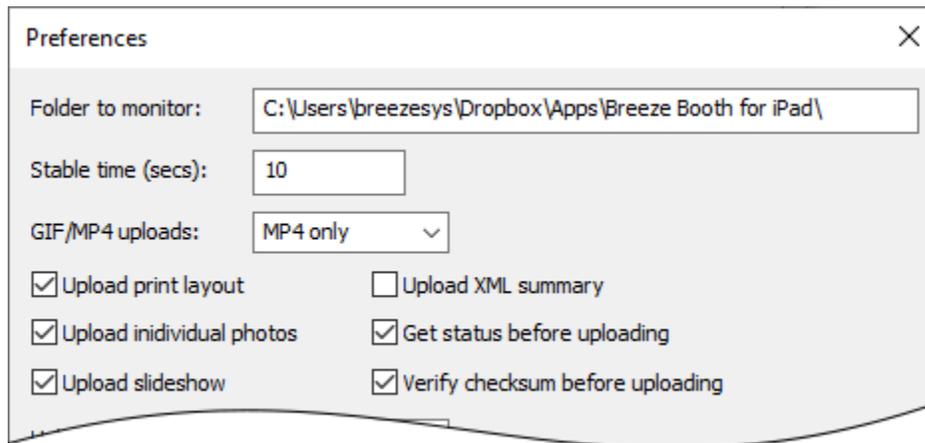
10 Breeze Gallery Uploader

Breeze Gallery Uploader is a tool to automatically upload photos, animated GIFs and MP4 movies from Breeze photo boot applications to online galleries. It can upload files using HTTPS POST to a website or an online gallery such as Photobooth Online Galerie (<https://www.photobooth-deluxe.de/en/wordpress-photobooth-galerie-dokumentation/>). Alternatively it can upload files directly to galleries in Hula Gallery (<https://www.hula.co/apps/gallery>).

The uploader monitors the output folder from the photo booth application and reads the XML summary file to obtain a list of files and associated meta data to upload. Internet usage is minimized by checking whether a file is already on the server before uploading the file. Files from a single session can be grouped so that they are displayed together in the online gallery e.g. if the photo booth takes a series of photos and creates prints and a GIF or MP4 slideshow the online gallery can display the slideshow, individual photos and print layout on a single page.

General Settings

Run Breeze Gallery Uploader and select File->Preferences... to display the "Preferences" dialog:



The upper portion of the "Preferences" dialog has settings which are the same whether you are uploading via HTTPS POST or to Hula Gallery.

Set the "Folder to monitor" to the folder to monitor for new images. In the screenshot above this has been set up to monitor the Dropbox folder where our [Breeze Booth for iPad app](#) saves images. You can also use tokens such as the {date} for today's date or {eventName} for the event name shared between our Windows based apps. If you are running a photo booth on a Windows PC using our [DSLR Remote Pro](#) software you could set the "Folder to monitor" to {documents}\PhotoboothImages\{dateLess8h}.

Set the stable time to allow time for delays transferring files to the folder to be monitored. These could be networking delays if the files are being synced via Dropbox or copied from another computer on a LAN. Breeze Gallery Uploader will wait for the size of new files to be unchanged for the stable time before uploading them.

The "GIF/MP4 uploads:" dropdown list setting specifies whether to upload GIFs only, MP4s only or both when both a GIF and a MP4 file is available.

Select "Upload print layout" to upload a copy of the print layout.

Select "Upload individual photos" to upload the individual photos. If the photo booth is set up to save a

copy of the processed photos this option will upload the processed photos not the original unmodified photos from the camera.

Select "Upload slideshow" to upload the animated GIF or MP4 slideshow captured by the photo booth.

Select "Upload XML summary" to upload the photo booth XML summary. The XML summary file contains detailed information, such as survey data, about the session which can be used by some gallery software to provide statistics and analytics.

The "Get status before uploading" setting can be used to save network bandwidth by sending a small status request to the server and only uploading the image file if the image has not already been uploaded.

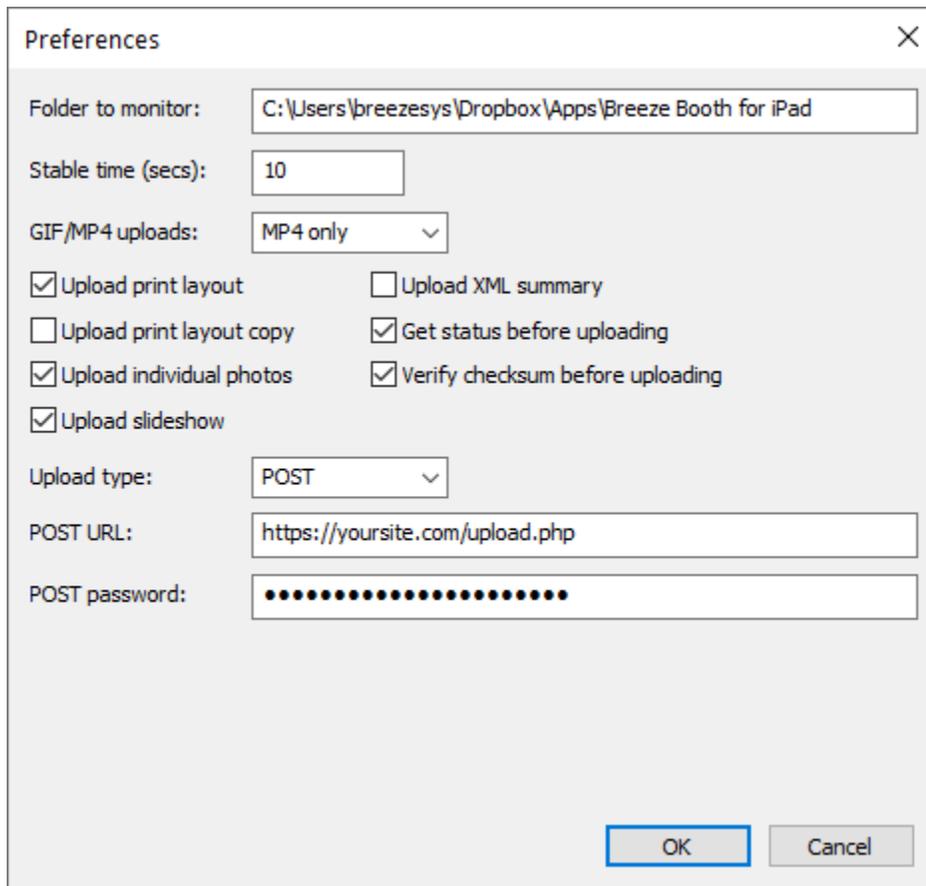
The "Verify checksum before uploading" setting checks the MD5 checksum read from the photo booth XML summary file with the MD5 checksum of the file to be uploaded before uploading the file. This setting is useful if the files are being transferred to computer running the uploader are delayed due to a slow network or other issues.

Our [Breeze Booth for iPad app](#) and recent versions of our Windows based [DSLR Remote Pro](#) photo booth software save the MD5 in the photo booth XML summary file. Older versions of DSLR Remote Pro may not save the MD5 checksum. If the MD5 checksum is not available in the XML summary file the uploader will upload the files using the "Stable time" setting above.

Uploading using HTTPS POST

The HTTPS POST option can be used to upload images to Photobooth Online Galerie (<https://www.photobooth-deluxe.de/en/wordpress-photobooth-galerie-dokumentation/>) or any other web based gallery system that has a suitable script to receive the uploaded files. Please see the [technical details](#) at the bottom of this page for information on writing a script to receive the files.

To use the HTTPS POST option set the "Upload type" to "POST":



The screenshot shows the 'Preferences' dialog box for the Breeze Gallery Uploader. The dialog has a title bar with a close button (X) in the top right corner. The settings are as follows:

- Folder to monitor: C:\Users\breezesys\Dropbox\Apps\Breeze Booth for iPad
- Stable time (secs): 10
- GIF/MP4 uploads: MP4 only (dropdown menu)
- Upload print layout: (checked)
- Upload XML summary: (unchecked)
- Upload print layout copy: (unchecked)
- Get status before uploading: (checked)
- Upload individual photos: (checked)
- Verify checksum before uploading: (checked)
- Upload slideshow: (checked)
- Upload type: POST (dropdown menu)
- POST URL: https://yoursite.com/upload.php
- POST password: [masked with 20 dots]

At the bottom right, there are two buttons: 'OK' and 'Cancel'.

Next set the "POST URL" to the URL of the script used to receive the uploaded files on the web server.

Set the "POST password" to the password used by the online gallery to provide additional security.

Please note: [Photobooth Online Galerie](#) is a subscription based gallery service run by [PHOTOBOOTH DELUXE](#). Please see their support pages for help and documentation: <https://www.photobooth-deluxe.de/en/wordpress-photobooth-galerie-dokumentation/>

Uploading to Hula Gallery

Please note: Hula Gallery has been acquired by Darkroom Software who may have made changes to the way photos are uploaded which may prevent the Gallery Uploader from uploading to their online gallery system.

Set the "Upload type" to "Hula Gallery" to set up Breeze Gallery Uploader to upload files to Hula Gallery:

Preferences

Folder to monitor: C:\Users\breezesys\Dropbox\Apps\Breeze Booth for iPad\

Stable time (secs): 10

GIF/MP4 uploads: MP4 only

Upload print layout Upload XML summary

Upload individual photos Get status before uploading

Upload slideshow Verify checksum before uploading

Upload type: Hula Gallery

API key:

Collection name: Photos {summaryDate}

Collection date: {summaryDate}

Collection URL:

Image group tag: {uid}

OK Cancel

First enter your Hula Gallery API key in the "API Key" field. This can be found by logging into your Hula Gallery account and going to the account settings and clicking on the "API" section.

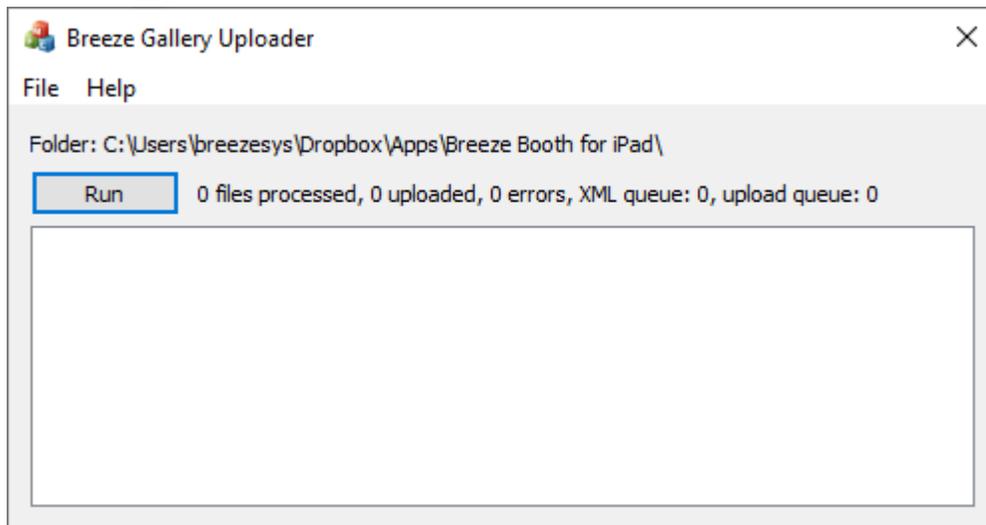
Next enter the collection name (aka gallery name) in the "Collection name" field. This field must only contain letters, numbers, spaces and hyphens. Tokens such as {summaryDate} or {eventName} can be used in this field.

Enter the collection date in the "Collection date" field. This must be in the form YYYY-MM-DD (e.g. 2019-09-15 for September 15, 2019). Tokens such as {summaryDate}, which reads the date from the XML summary file, can be used in this field.

Set the optional "Collection URL" field to create a custom URL for accessing a gallery. This must only contain letters, numbers and hyphens. Tokens such as {eventName} can also be used in this field. Example: if your Hula Gallery subdomain name is photobooth and the collection URL is set to gallery2019 the URL of the gallery will be <https://photobooth.hulagallery.com/gallery2019>. The collection URL should not change for different uploads to the same collection. If a file with a different collection URL is uploaded to an existing collection the new collection URL is ignored.

The "Image group tag" is used to group images together (e.g. the print layout, the individual photos and a slideshow GIF) in the gallery pages. Files uploaded with the same tag will be displayed on the same gallery page. This field must only contain letters and numbers and can use tokens such as {uid}. The default setting is the {uid} token which extracts the eight character UID from the filenames of files created using our iPad based and Windows based photo booth software.

Uploading Files



After setting up the upload method press the "Run" button to start uploading files. Breeze Gallery Uploader will scan the folder to be monitored and all its subfolders for photo booth XML summary files. The files will be added to the XML queue until they remain stable (i.e. the file size doesn't change) for the stable time and then they will be read and the files will be added to the upload queue. When a file has remained stable for the stable time (and its MD5 checksum matches the value in the XML summary file if the "Verify checksum before uploading" option is selected) it will be uploaded.

If the "Get status before uploading" option is selected a status request is sent to the server and the file is only uploaded if it isn't already on the server. If there is an error the file is placed in the upload queue for another attempt. If it fails 9 times the upload of that file is abandoned.

When in "run mode" Breeze Gallery Uploader will continuously monitor the folder to be monitored for new files and automatically add them to the XML and upload queues. This means that you can leave it running while a photo booth is in use and it will automatically upload new photos to the server as they are taken.

A log showing the date and time is displayed in the main part of the uploader's window. This can be saved to file for future reference by selecting File->Save log file...

Please note: Breeze Gallery Uploader does not keep a record of uploaded files between sessions. If the folder to be monitored contains galleries that have already been uploaded they will be scanned by the uploader each time it is run and any files it finds will be uploaded to the server again. Please use the "Get status before uploading" option to reduce internet usage if the uploader is setup to monitor folders of images that have already been uploaded. Alternatively use the {eventName} or date based tokens to specify the folder to be monitored so that it only scans the current event.

Command Line Options

Breeze Gallery Uploader can also be run using a desktop shortcut or a script with command line arguments to specify the settings. The following command line arguments can be used:

-a automatically enter run mode at startup
<xml_setting> load the settings from an XML settings file
s_file>

Sample PHP Script

The PHP script below shows how files sent by the Breeze Gallery Uploading using the HTTPS POST method can be received on a web site. This script is for illustrative purposes only and comes with no warranty or support. You are free to use this script or modify it as required, but if you do so you are responsible for checking that it is secure and meets your requirements.

The script handles two types of request:

1. "get_status" which checks whether a file has already been loaded to the server (and doesn't include the actual file in the upload). The script responds with the JSON string: ("exists": true, "filename": "<filename>") if the file exists or ("exists": false, "filename": "<filename>") if it does not exist.
2. "upload" which uploads the file to the server. The script returns status code 200 if the upload is successful or an error code and message if there is an error.

```
<?php

function logError($msg)
{
    file_put_contents('./upload_log.txt', $msg . PHP_EOL, FILE_APPEND | LOCK_EX);
}

function fatalError($code, $msg)
{
    // clear the old headers
    header_remove();

    // set the actual code
    http_response_code($code);

    // set the header to make sure cache is forced
    header("Cache-Control: no-transform,public,max-age=300,s-maxage=900");

    header('Content-Type: text/plain; charset=utf-8');
    echo $msg;
    logError($msg);
    exit();
}

// replace this with a more secure password
$password = "photos";

// folder in which to store uploaded images
$destdir = "../gallery_uploads";

$id = $_POST["id"];
$request = $_POST["request"];
$filename = $_POST["filename"];
$chksum = $_POST["md5"];
$key = $_POST["key"];

// check client authentication string is correct
$localKey = "breeze" . $id . $password . $filename . $chksum;
if (sha1($localKey) != $key) {
    fatalError(401, "Not authorized $key, " . sha1($localKey) . " id=$id, filename=$filename");
}

if ($request == "get_status")
```

```
{
    // check whether file already exists on the server
    $destFile = "$destdir/$filename";
    $arr = array('exists' => file_exists($destFile), 'filename' => $filename);
    fatalError(400, json_encode($arr));
}
else if ($request != "upload")
{
    // check whether it is an upload request
    fatalError(400, "Invalid request: $request");
}
try {
    // Undefined | Multiple Files | $_FILES Corruption Attack
    // If this request falls under any of them, treat it invalid.
    if (!isset($_FILES['fileToUpload']['error']) || is_array($_FILES['fileToUpload']['error'])) {
        fatalError(400, "Invalid parameters");
    }

    // Check $_FILES['fileToUpload']['error'] value.
    switch ($_FILES['fileToUpload']['error']) {
        case UPLOAD_ERR_OK:
            break;
        case UPLOAD_ERR_NO_FILE:
            fatalError(400, 'No file sent');
        case UPLOAD_ERR_INI_SIZE:
        case UPLOAD_ERR_FORM_SIZE:
            fatalError(400, 'Exceeded form file size limit');
        default:
            fatalError(400, 'Unknown error');
    }

    // Check MIME type
    $finfo = new finfo(FILEINFO_MIME_TYPE);
    $mimeType = $finfo->file($_FILES['fileToUpload']['tmp_name']);
    if (false === array_search(
        $mimeType,
        array(
            'image/jpeg',
            'image/gif',
            'video/mp4',
            'video/quicktime',
            'text/xml',
        )
    )) {
        fatalError(400, "Unexpected MIME type: " . $mimeType);
    }

    $srcFile = $_FILES["fileToUpload"]["tmp_name"];

    // check file is JPEG, GIF, MP4 or XML
    $fileType = strtolower(pathinfo($filename,PATHINFO_EXTENSION));
    if ($fileType != "jpg" && $fileType != "gif" && $fileType != "mp4" && $fileType != "xml" ) {
        fatalError(400, "File type not allowed");
    }

    // check MD5 checksum matches uploaded file
    if (strcasecmp(md5_file($_FILES["fileToUpload"]["tmp_name"]), $chksum) != 0) {
```

```

        fatalError(400, "MD5 checksum incorrect");
    }

    // read filename and dir from $filename and create dir if it doesn't already exist
    [ 'basename' => $basename, 'dirname' => $dirname ] = pathinfo($filename);
    $destFile = "$destdir/$basename";
    if (strlen($dirname) > 0)
    {
        $dir = "$destdir/$dirname";
        if (!file_exists($dir)) {
            mkdir($dir, 0777, true);
        }
        if (file_exists($dir)) {
            $destFile = "$dir/$basename";
        }
    }

    // move the uploaded file to the upload folder
    if (move_uploaded_file($srcFile, $destFile)) {
        header('Content-Type: text/plain; charset=utf-8');
        echo "File: $destFile";
    } else {
        logError("move_uploaded_file($srcFile, $destFile) failed");
        fatalError(400, "Error copying file to upload folder: $destFile");
    }
} catch (RuntimeException $e) {
    fatalError(400, $e->getMessage());
}
?>

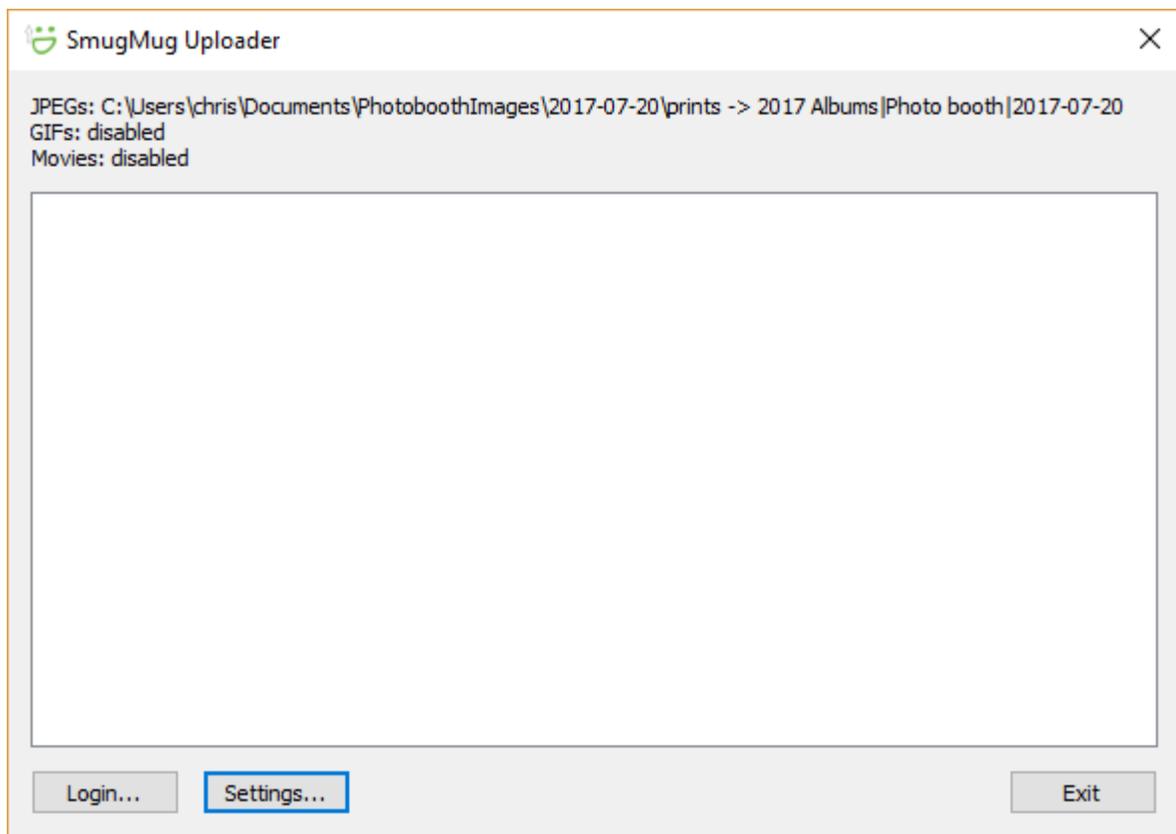
```

11 Automatically uploading photos to SmugMug

The SmugMug uploader automatically uploads JPEG images, animated GIFs and MP4 movie files to your SmugMug account.

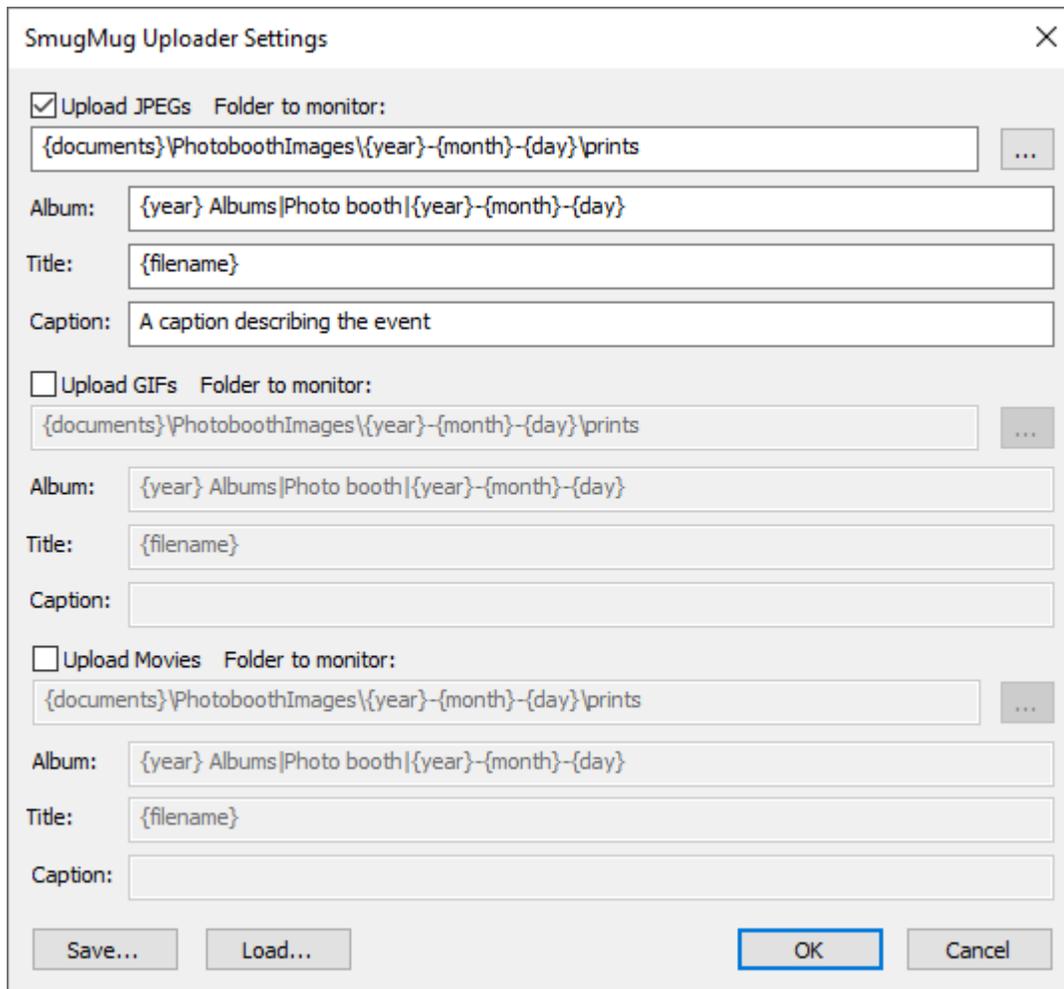
Please note: You need to purchase a subscription to SmugMug before using the SmugMug uploader. Please visit SmugMug's website for details: www.smugmug.com

Run the SmugMug Uploader by double clicking on the SmugMug Uploader desktop icon:



The top of the SmugMug Uploader windows summarizes the settings for uploading JPEGs, GIFs and MP4 files, showing the source folder that is monitored for new files and the destination album where they will be uploaded to in your SmugMug account. The area in the middle shows status messages from uploading files.

Click on the "Settings..." button to display the settings dialog:



The image shows a 'SmugMug Uploader Settings' dialog box with three sections for different file types. Each section has a checkbox, a 'Folder to monitor' field, and fields for 'Album', 'Title', and 'Caption'. The 'Upload JPEGs' section is active, with its checkbox checked. The folder path is '{documents}\PhotoboothImages\{year}-{month}-{day}\prints'. The album path is '{year} Albums|Photo booth|{year}-{month}-{day}'. The title is '{filename}' and the caption is 'A caption describing the event'. The 'Upload GIFs' and 'Upload Movies' sections are inactive, with their checkboxes unchecked. The dialog has 'Save...', 'Load...', 'OK', and 'Cancel' buttons at the bottom.

Select the "Upload JPEGs" checkbox to enable the uploading of JPEG images and specify the folder it should monitor for new images in the edit area below. The folder path can use tokens to specify values that use [tokens](#) that are evaluated at run time e.g. the default setting of {documents}\PhotoboothImages\{year}-{month}-{day}\prints will be give the following when the SmugMug Uploader is run on July 20, 2017:
 C:\users\your_login_name\Documents\PhotoboothImages\2017-07-20\prints

The "Album:" settings specifies the path of the SmugMug album to which the JPEGs will be uploaded. The vertical bar or pipe character '|' is used separate album names to allow albums within parent albums to be specified. The Album path can also use tokens e.g. the default setting of {year} Albums|Photo booth|{year}-{month}-{day} will be give the following when the SmugMug Uploader is run on July 20, 2017:

```
2017 Albums
  Photo booth
    2017-07-20
```

"2017 Albums" is the parent album name created in your SmugMug account and will have a child album named "Photo booth" which in turn has a child album named "2017-07-20" which will receive the uploaded JPEG images.

Each uploaded JPEG can have a title which is displayed when viewing thumbnails and an optional caption. Both the title and the caption can include tokens if required.

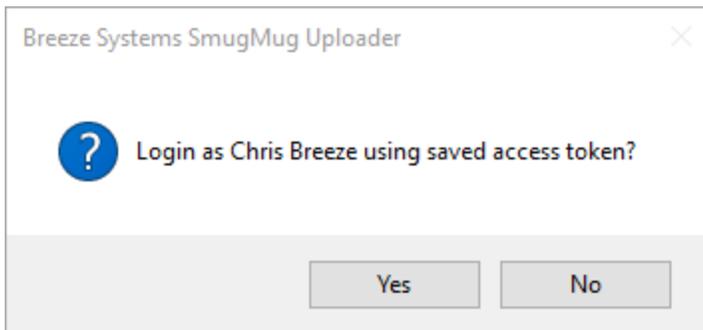
The settings for animated GIFs and movie files work in a similar way to the JPEG settings.

The SmugMug Uploader can use tokens related to date and time, filenames and event info, but does not use the shooting data related tokens. Please see the [Tokens page for details](#).

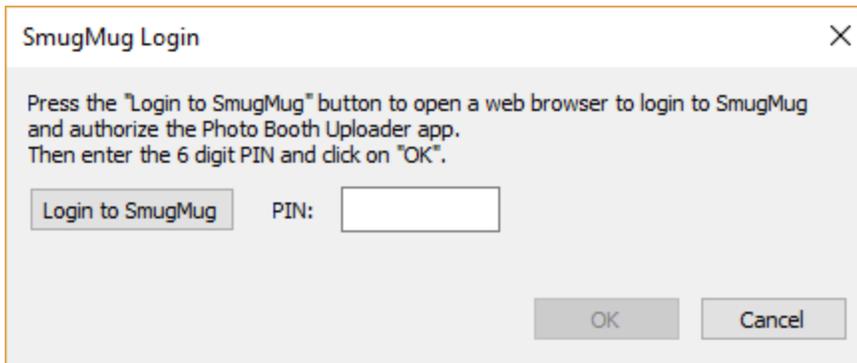
Click on the "Save..." button to save the settings to file. Load the settings from file by clicking on the "Load..." button.

Logging into your SmugMug account

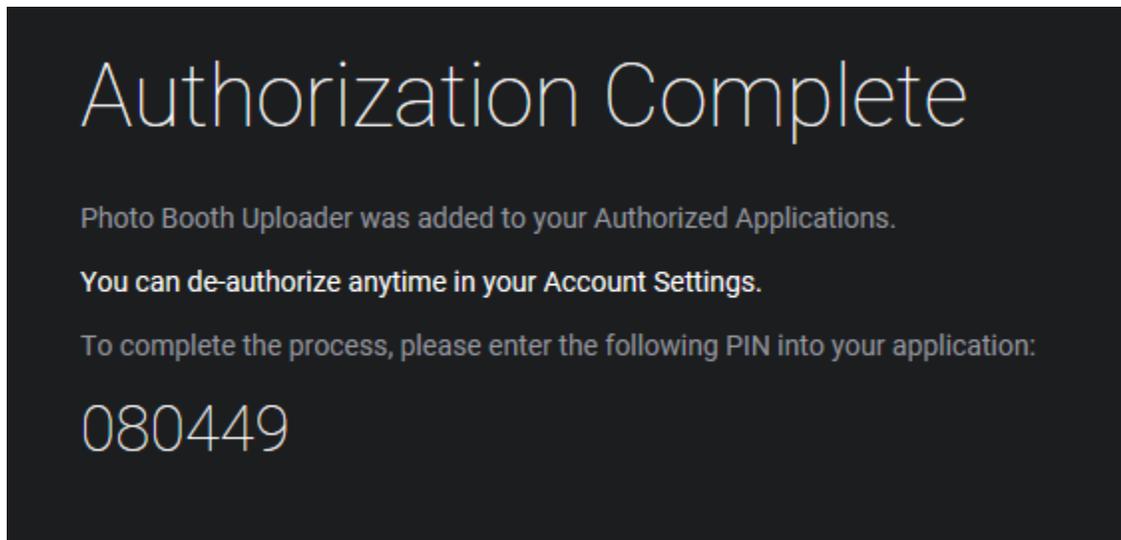
Click on the "Login..." button to log into your SmugMug account. If you have already logged into SmugMug it will ask whether you wish to log in using the saved access token:



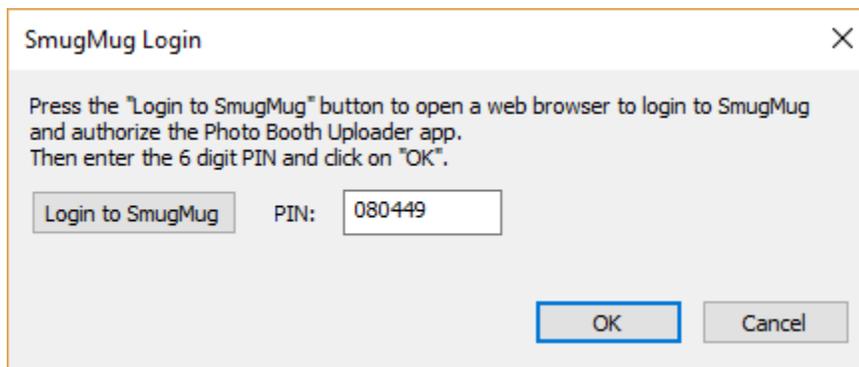
Click on "Yes" if you wish to use the saved account token or click on "No" if you wish to log in using a different account. If no previous log in details have been saved, the access token has been canceled or you clicked on "No" above the login dialog will be displayed:



Click on the "Login to SmugMug" button to open a web browser window to login to your SmugMug account. Enter your SmugMug username and password to authorize the SmugMug Uploader app and 6-digit PIN similar to the one below will be displayed:

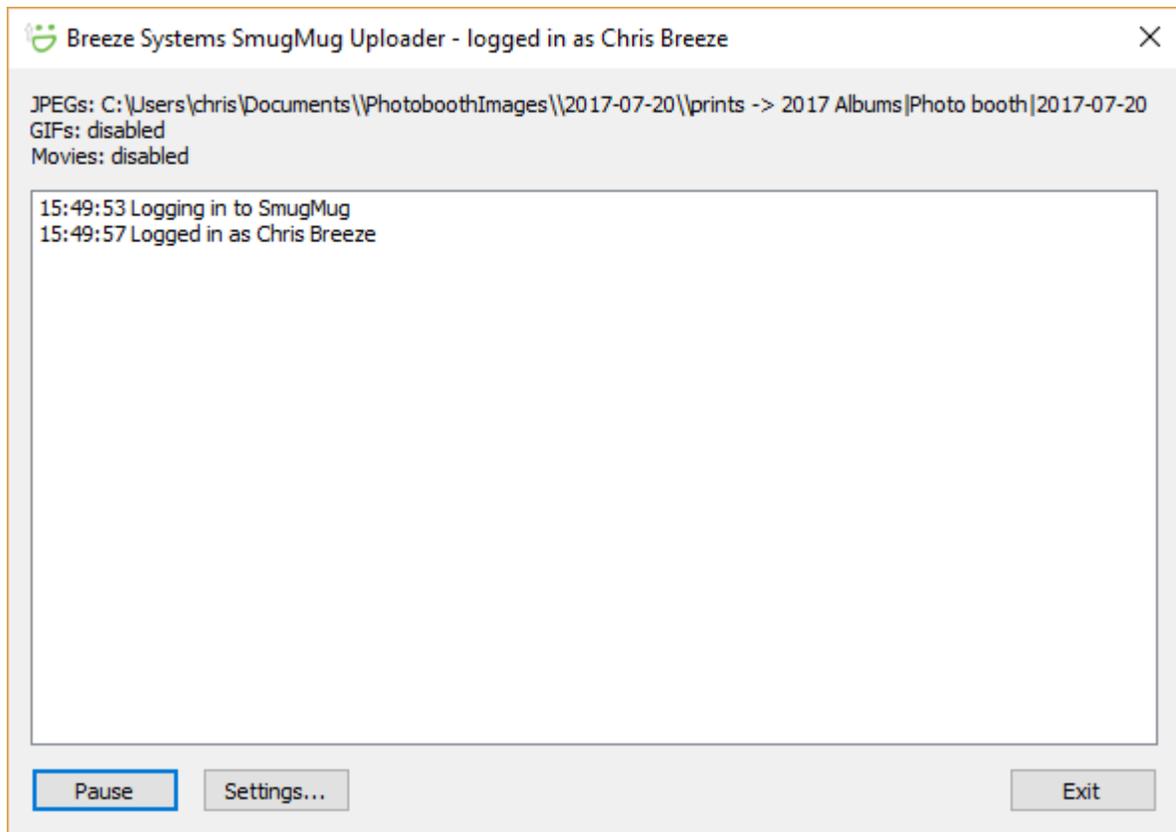


Enter the PIN in the "SmugMug Login" dialog and click on OK:



The main SmugMug Uploader window will display the logged in status in the title bar and the status message area and will automatically start scanning the folders to be monitored for images to upload to SmugMug. It will compare the filename of each file in the folder being monitored with the filenames of the files in the SmugMug album and only upload files that are not already in the album.

Please note: If the SmugMug album already contains a file with the same filename as a file in the folder being monitored for images it will not upload the file even if it is a different image.



Click on the "Pause" button to pause the upload process. Uploads can be resumed by clicking on the button again.

Click on the "Settings..." button to change the settings. Uploads will be paused while the settings are being changed and resumed when the settings dialog is closed.

Click on the "Exit" button to close the SmugMug Uploader. This will save the current settings together with the SmugMug access token. If you do not wish other users of the computer to be able to run the SmugMug Uploader using your saved access token you can delete the setting by running the SmugMug Uploader again and clicking on the "Login..." button to display and then click on "No". Then click on "Cancel" to close the login dialog and "Exit" to close the SmugMug Uploader and the saved access token will be deleted.

Command Line Options

The SmugMug Uploader can also be run using a desktop shortcut or a script with command line arguments to specify the settings. The following command line arguments can be used:

-a automatically login at startup
<xml_setting s_file> load the settings from an XML settings file

12 Automatically uploading images to other photo sharing sites

Example settings for uploading to [Flickr](#)

The simplest example is to email the image to your personal Flickr upload email address leaving the subject and message fields empty. You can also add a title and tags in the image using the subject line e.g. to add the title "John and Sue's Wedding" with the tags "photobooth" and the date the subject would be "John and Sue's Wedding tags: photobooth %d" (the token %d is replaced by the date in the form YYYYMMDD). A description can be added to the image using the email body text. The email settings would look something like:

The screenshot shows the 'Email settings' dialog box with the following configuration:

- Email server settings:**
 - Host: smtp.gmail.com
 - Port: 587
 - Username: myname@gmail.com
 - Password: *****
 - Use SSL for secure email
 - Hide password
 - Retries: None
 - Display debug window when sending email
 - Log email addresses to file: C:\Users\Chris\Documents\email_log.csv
- From:** myname@breezesys.com
- To:** myuploadaddr@photos.flickr.com
- Subject:** John and Sue's Wedding tags: photobooth %d
- Message (plain text):** %H:%M:%S: another great shot from the photo booth at John and Sue's wedding
- Message (HTML format):** (Empty)

Important: You must leave the "Message (HTML format)" section empty otherwise the email will be sent with the image embedded not attached and it will not be recognized by Flickr.

Example commands for uploading to [Twitter](#)

Twitter doesn't do photos, but if you use a service like twitpic you can upload a photo and send a tweet with a message and a link to the photo hosted on twitpic. The subject line of the email will form the tweet sent to twitter together with a link to the photo e.g. "Photobooth shots from John and Sue's wedding party taken at %H:%M:%S" (the tokens %H, %M and %S are replaced by the time in hours,

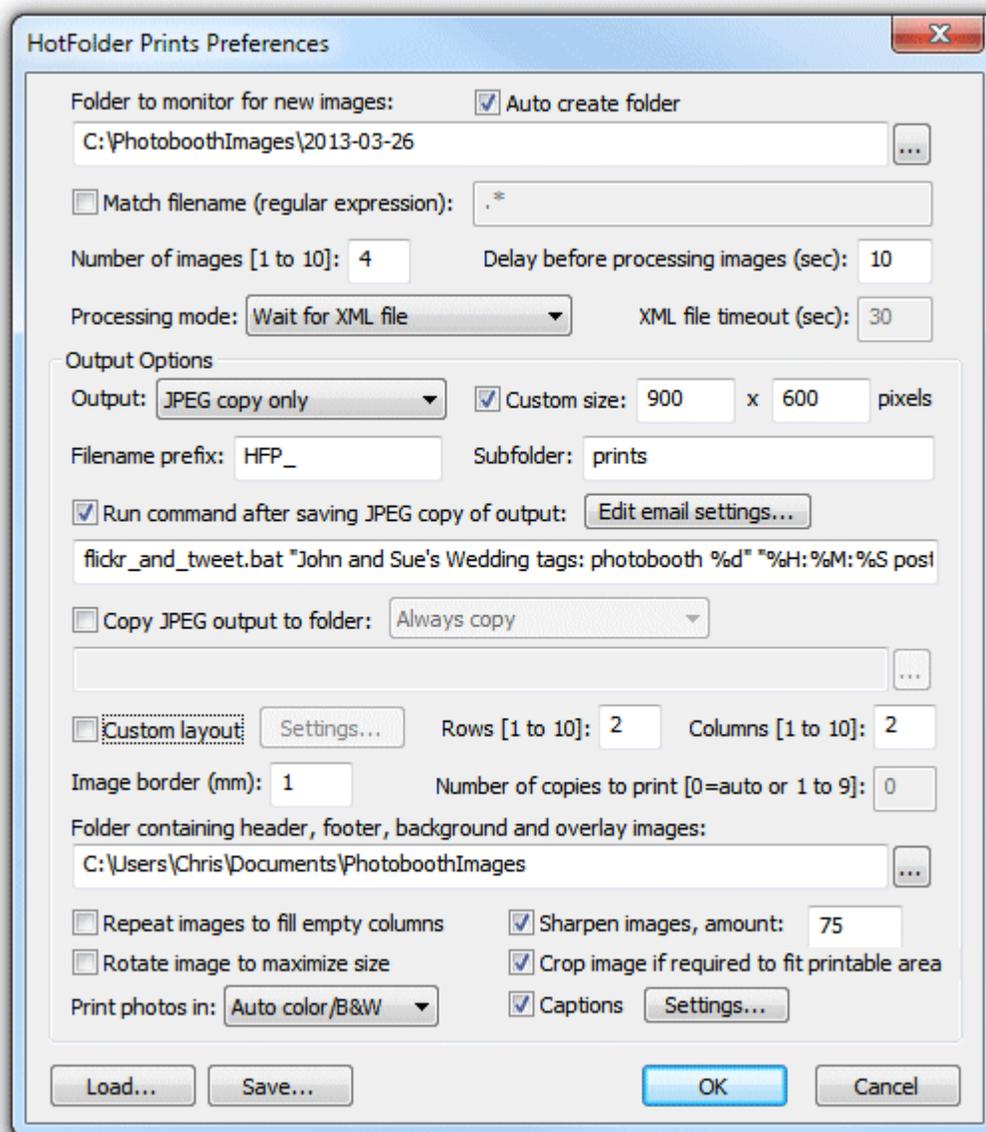
minutes and seconds respectively).

Alternatively you could upload your photos to Flickr and then send a tweet to let people know when a new photo is available. To do this you need to use a service such as [TwitterCounter](#) to tweet by email and send a second email to Flickr to upload the image. The command called by HotFolder Prints can only do one thing and so we need to get it to call a batch file in order to send the two emails. We could call the batch file flickr_and_tweet.bat and use something like this:

```
echo off
email_image.exe -s%1 -rmyupload12addr@photos.flickr.com -ojohn@doe.com %3
email_image.exe -s%2 -r6gthg-jhgjhgk@twittermail.com -ojohn@doe.com
```

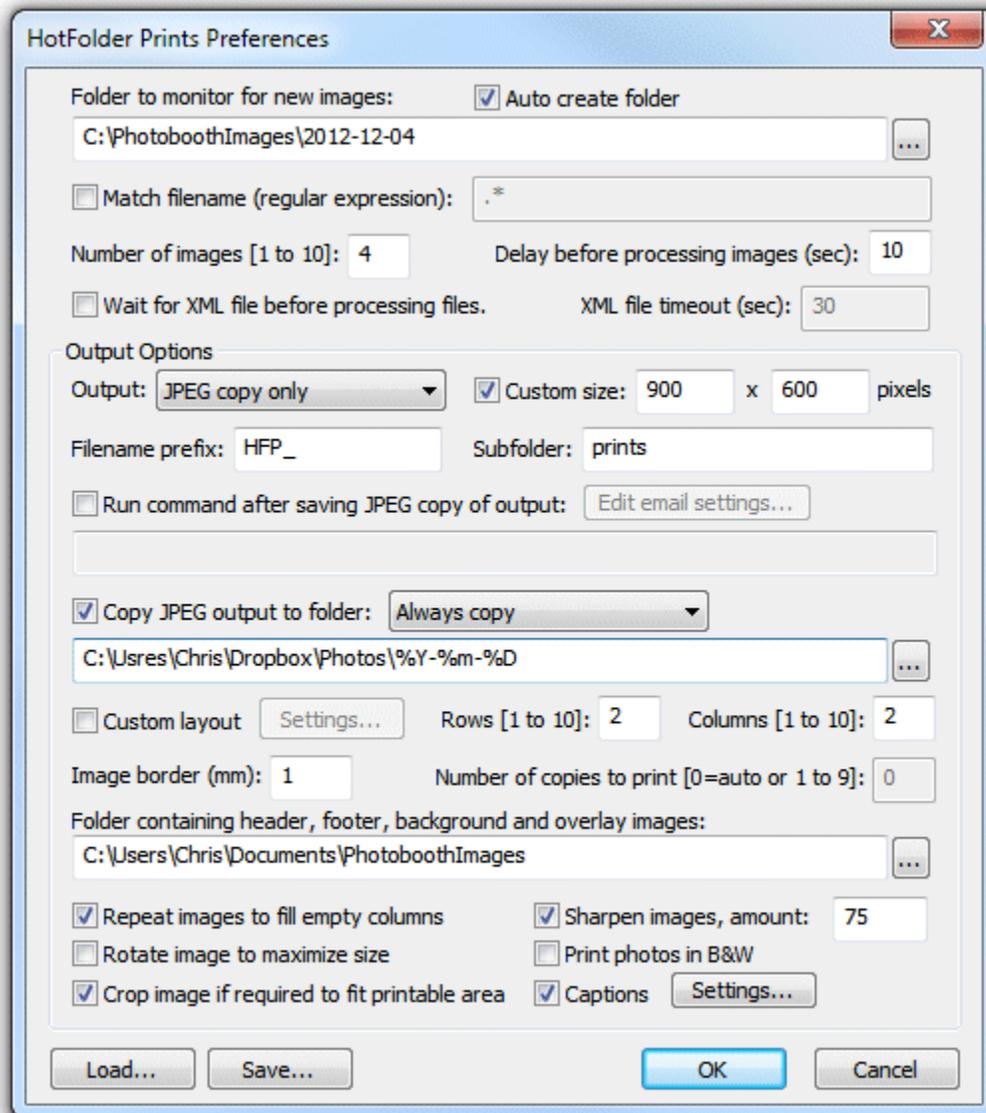
The HotFolder Prints command could be something like this:

```
flickr_and_tweet.bat "John and Sue's Wedding tags: photobooth %d" "%H:%M:%S
posted another great photo from John and Sue's wedding: http://www.flickr.
com/photos/myname" {pathname}
```



Example settings for uploading to [DropBox](#)

DropBox provides a very simple way to upload photos and view them in a gallery. All you need to do is copy the photos to the appropriate DropBox folder on your PC and they will be automatically uploaded to the DropBox website. If no internet connection is available during the event DropBox will automatically upload the photos when an internet connection is available. The photos can be copied to the DropBox folder on your PC using the "Copy JPEG to output folder" option e.g.



You could also email the user a copy of the photo and a link to the gallery using email settings like the ones below. Users can enter their email address using the touchscreen keyboard option in our photo booth software and Hotfolder Prints will send an email with the photo attached together with a link to the DropBox photo gallery.

Email settings

Email server settings

Host: Port:

Username: Use SSL for secure email

Password: Hide password

Retries: Display debug window when sending email

Log email addresses to file:

From: To:

Subject:

Message (plain text):

Here is your photo booth photo taken at John and Sue's wedding.
 You can see more photos at:
<http://www.dropbox.com/gallery/5645987236/2013-10-16?h=4edbb4>

Message (HTML format):

```
<p>Here is your photo booth photo taken at John and Sue's wedding. </p>
<p></p>
<p>You can see more photos at: <a href="http://www.dropbox.com/gallery/5645987236/2013-10-16?h=4edbb4">http://www.dropbox.com/gallery/5645987236/2013-10-16?h=4edbb4</a>
<p>Brought to you by <b>Breeze Systems</b> photobooth software</p>
```

13 Tokens

The following tokens are available for using in the [caption text](#). The values are read from the EXIF shooting data in the first image used in the print layout.

Date and time tokens

%a	Abbreviated weekday name	e.g. Fri
%A	Full weekday name	e.g. Friday
%b	Abbreviated month name	e.g. Jun
%B	Full month name	e.g. June
%d	Date in the form YYMMDD (equivalent to %y%m%D)	e.g. 170611 for June 11, 2017
%D or {day}	Day of the month (01 to 31)	
%H	Hour (00 to 23)	

%l	Hour (01 to 12)	
%j	Day of the year (001 to 366)	
%l	Long date/time representation of locale	e.g. Monday, July 25, 2017 19:03:47
%L	Long date representation for locale	e.g. Monday, June 25, 2017
%m or {month}	Month (01 to 12)	e.g. 06 for June
%M	Minutes (00 to 59)	
%p	am/pm indicator	e.g. PM
%S	Seconds (00 to 59)	
%t	Time in the form HHMMSS (equivalent to %H%M%S)	
%W	Week number (00 to 53)	
%x	Date representation for locale	e.g. 06/10/17 for June 10, 2017
%X	Time representation for locale	e.g. 14:39:29
%y	Year without century	e.g. 16
%Y or {year}	Year with century	e.g. 2017
%z	Time zone name	e.g. GMT Standard Time
%Z	Time zone offset wrt UTC	e.g. +0100 for GMT during DST
{yearNow}	Year 'now' in the form YYYY.	e.g. 2017
{monthNow}	Month 'now' (01 to 12)	e.g. 07 for July
{dayNow}	Day 'now' (01 to 31)	e.g. 23
{dateNow} or {date}	Date 'now' in the form YYYY-MM-DD	e.g. 2020-11-28
{yearLess8h}	Year 'now - 8 hours' in the form YYYY. The 8 hour offset is to allow date tokens to remain the same for events which continue after midnight	e.g. 2017
{monthLess8h}	Month 'now - 8 hours' (01 to 12)	e.g. 07 for July
{dayLess8h}	Day 'now - 8 hours' (01 to 31)	e.g. 23
{dateLess8h}	Year, month, day less 8 hours in the form YYYY-MM-DD	e.g. 2017-07-23

Shooting data tokens

%c	Camera serial number (Canon EOS cameras only)	
%C	Canon EOS-1D/1DS style camera serial number	
%e	File extension (without the '.')	e.g. JPG for IMG_4567.JPG
%i	ISO value read from the shooting data	

%o	Image filename without extension	e.g. IMG_4567
%O	Owner string (Canon cameras only)	
%T	Camera model name starting from the first word containing digits	e.g. 80D for Canon EOS 80D
%T1	Same as %T, but '-' are treated as spaces	e.g. 1DX for Canon EOS-1DX
%T2	Full camera model name	e.g. Canon EOS 80D
%T3	First word of camera model name containing digits	e.g. DC4800 for KODAK DC4800 ZOOM DIGITAL CAMERA
%T4	Same as %T3, but '-' are treated as spaces	
%T5	Last word of camera model name containing digits	e.g. 80D for Canon EOS 80D
%T6	Same as %T5, but '-' are treated as spaces	e.g. 1DX for Canon EOS-1DX
%v	Camera model name starting from the first word containing digits (same as %T)	
%V	Full camera model name (same as %T2)	
{comment}	The contents of the EXIF UserComment field	

Tokens for modifying strings

The tokens below can be used to modify tokens or strings:

Token	Description	Example
{left,n,str}	Extracts the first n characters from str (which can be a string or token).	{left,4,{filename}} for D:\Photos\image1.jpg will give: image
{mid,n,m,str}	Extracts m characters starting from the n'th character from str (which can be a string or token).	{mid,1,3,{filename}} for D:\Photos\image1.jpg will give: mag {mid,3,,{filename}} for D:\Photos\image1.jpg will give: ge1
{right,n,str}	Extracts the last n characters from str (which can be a string or token).	{right,2,{filename}} for D:\Photos\image1.jpg will give: e1
{field,n,str}	Extracts the nth field from str. Fields are separated by space, period, hyphen, slash, backslash or underscore characters	{field,2,{filename}} for D:\Photos\IMG_0001.jpg will give: IMG
{field2,n,ch,str}	Extracts the nth field from str using the character ch as the field separator	{field2,2,-,one-two-three} will give: two
{first,str}	Extracts the first word from str (which can be a string or token).	{first,%L} for an image taken Monday, January 17, 2015 will give: Monday
{last,str}	Extracts the last word from str (which can be a string or token).	{last,%L} for an image taken Monday, January 17, 2015 will give: 2015
{upper,str}	Converts str to upper case	{upper,%B} for a photo taken in June gives: JUNE

{lower,str}	Converts str to lower case	{lower,%B} for a photo taken in June gives: june
{capitalize,str}	Converts str to lower case and capitalizes the first letter	{capitalize,john} gives John
{default,str1,str2}	Returns str1 unless it is an empty string in which case it returns str2 (str1 and str2 can be strings or tokens)	{default,1,2} returns 1 {default,,2} returns 2
{if,test,str1,str2}	Returns str1 if test contains any text except 0 else returns str2 (test, str1 and str2 can be strings or tokens)	{if,1,2,3} returns 2 {if,0,2,3} returns 3 {if,,2,3} returns 3
{compare,str1,str2}	Returns 1 if str1 is the same as str2 else returns an empty string	{compare,photo,photo} returns 1, {compare,photo,image} returns empty string
{contains,str1,str2}	Returns 1 if str1 contains str2 else returns an empty string	{contains,photo,to} returns 1, {contains,photo,camera} returns empty string
{random,n,m}	Returns a random number in the range n to m. A new random number is generated each time the ready screen is displayed in photo booth mode	{random,1,10} returns a random number between 1 and 10
{urlencode,str}	Encodes str so that it can be used as a parameter in a URL e.g. when providing a URL for a microsite	https://yoursite.com/viewer.php?id={urlencode,my name} gives https://yoursite.com/viewer.php?id=my%20name

Event info tokens

Hotfolder Prints, Breeze Viewer, the SmugMug uploader and the Twitter hashtag monitors can all use the event info shared by other Breeze Systems' apps (e.g. DSLR Remote Pro v3.7.2 onwards) that save the information in the Windows registry under the registry key
HKEY_CURRENT_USER\Software\BreezeSystems\Event Info

{eventName}	The event name read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventName
{eventString1}	Event string 1 read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString1
{eventString2}	Event string 2 read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString2
{eventString3}	Event string 3 read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString3
{eventString4}	Event string 4 read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString4
{eventString5}	Event string 5 read from HKEY_CURRENT_USER\Software\BreezeSystems\Event Info\EventString5

Other tokens

{filename}	Filename (including folder) of the saved print layout JPEG image. If the pathname contains spaces this will be automatically converted into a Windows short pathname when used in the command run after saving the JPEG copy of the output.
{filenameDir}	Directory path of the saved print layout JPEG image e.g. If the JPEG image of the saved print layout is C:\Photobooth\2013-10-16\IMG_0001.JPG {filenameDir}

	evaluates to C:\Photobooth\2013-10-16\
{filenameNoExt}	Filename (without folder or file extension) of the saved print layout JPEG image e.g. If the JPEG image of the saved print layout is C:\Photobooth\2013-10-16\IMG_0001.JPG {filenameNoExt} evaluates to IMG_0001
{srcPhotoPathname<n>}	The full pathname (drive, folder, filename and file extension) of the the nth source image e.g. {srcPhotoPathname1} gives the full pathname of the first source photo
{srcPhotoFilename<n>}	The filename (filename and file extension) of the the nth source image e.g. {srcPhotoFilename2} gives the filename (including file extension) of the second source photo
{srcPhotoFilenameNoExt<n>}	The filename (without file extension) of the the nth source image e.g. {srcPhotoFilenameNoExt1} gives the filename of the first source photo
{srcPhotoSubfolder<n>}	The subfolder of the nth source image e.g. gives Hashtag if the pathname of the source image is C:\Twitter\Hashtag\Photo.JPG
{user_data}	Information (e.g. email address) entered by users using the touchscreen keyboard option in Breeze Systems' photobooth software
{user2_data to {user9_data}	Additional information (e.g. name, phone number) entered by users using the touchscreen keyboard option in Breeze Systems' photobooth software
{user_data_emails}	Special token for use with the command run after saving the JPEG copy of the output. The {user_data} tokens are scanned for correctly formed email addresses (e.g. name@domain.com) and the command is called for each email address
{text1} to {text5}	Text read from the Windows registry when printing. This is useful if another app needs to modify caption text used by Hotfolder Prints while it is running. Example registry key: e.g. HKEY_CURRENT_USER\Software\BreezeSystems\HotfolderPrints\100\{text1}
{output}	The value of the <output> tag read from the photobooth summary XML file written by Breeze Systems' photobooth software
{uid}	Unique id in the form ABC12345 updated before processing each set of photos. It can be used in captions and to specify the output filename. The id is guaranteed not to repeat within 72 hours and is very unlikely to repeat within 10 years.
{uid2}	Alternative unique id in the form ABCDE123 updated before processing each set of photos. It can be used in captions to specify the output filename. The id is guaranteed not to repeat within 776 days and computers processing photos at exactly the same time have a 1 in 216,000,000 chance of generating the same id.
{summaryDate}	The date in the form YYYY-MM-DD read from the XML summary file. Please note that this token is only used by Breeze Gallery Uploader

14 How to create PNG images using Photoshop

Photoshop

First create a new image with a transparent background. Then create a mask by clicking on the "Add layer mask" in the layers palette.

Next add the graphics such as text overlays and picture frames to the image layer and use the layer mask to control the transparency. In the layer mask white represents opaque, black represents fully transparent and values between white and black represent increasing transparency.

Save a copy of the image as a PSD file for future reference and then save the image as a PNG file named overlay.png.

An existing PNG image containing transparency information in the alpha channel can be edited in Photoshop by loading it into Photoshop. The layer mask containing the transparency information can be recreated by selecting Layer->Layer Mask->From Transparency.

Photoshop Elements

First create a new image with a transparent background. Next add the graphics such as text overlays and picture frames and use the opacity slider for the layers to control opacity. To get a simple fade effect, you can also use the gradient tool. Once you're happy with your image, save a copy as a PSD file for future reference and then save the image as a PNG file named overlay.png.

15 Release History

15 September 2022: v1.8.3

- Added the ability to process video files by extracting a still image from the video
- Fixed an issue with creating albums when using the SmugMug Uploader

12 July 2021: v1.8.2

- Added optional background/overlay filename suffix to provide more flexible selection of backgrounds and overlays
- Added the option to rotate the output to match the EXIF orientation of the first photo
- Added {field2,n,sep,str} token which allows the field separator to be specified
- Added {contains,str1,str2} token to test whether str1 contains str2
- Fixed an issue with the print layout editor crashing if a previously selected printer is no longer available
- BreezeViewer now supports PNGs as well as JPEGs and animated GIFs
- Removed the Instagram Hashtag Monitor which is no longer supported due to changes made by Instagram

4 December 2019: v1.8.1

- Added command line options to auto run and to load XML settings from file when running Breeze Gallery Uploader
- Added command line options to auto login and to load XML settings from file when running the SmugMug Uploader
- Breeze Viewer now supports the display of adverts in mosaic modes when displaying animated GIFs
- Improved error reporting if a hashtag is not found when running the Hashtag Monitor
- Fixed an issue uploading MP4 videos using Breeze Gallery Uploader
- Fixed an issue when auto copies printing when copies set to 0 and output set to print only in Hotfolder Prints

9 September 2019: v1.8

- Added new [Breeze Gallery Uploader](#) for automatically uploading photos, GIFs and MP4s to online galleries
- PNG logos and JPEG images can now be added to print layouts
- Improved handling of login access tokens in SmugMug uploader and added the option to save the settings to file
- Added {captionNoURL} token for extracting Twitter captions without the trailing URL

10 January 2018: v1.7

- Added support for [event name and event string tokens](#) shared with other event software from Breeze Systems
- Additional error checking of hashtags in the Instagram Hashtag Monitor
- Updated the Instagram Hashtag monitor to work with the latest updates made by Instagram
- More accurate playback speed of animated GIFs in Breeze Viewer
- Fixed a problem with photos being auto-rotated using the orientation read from the EXIF shooting data
- Added a workaround for a Windows bug that was preventing the {uid} and {uid2} tokens from

generating random values

24 July 2017: v1.6

- Added the ability to process PNG images as well as JPEG images in Hotfolder Prints
- BreezeViewer now supports animated GIFs and adds "mosaic with flip" slideshow transition
- Updated Instagram Hashtag Monitor following changes to the way Instagram works
- Added [SmugMug upload utility](#)

27 April 2016: v1.5.5

- Instagram Hashtag Monitor now downloads the high resolution copies of photos if available
- Fixed a problem with loading saved settings via the command line when running Hotfolder Prints
- Updated Instagram Hashtag Monitor following recent changes in the way Instagram works
- Fixed a problem with timestamps using Twitter Hashtag Monitor in different time zones

30 September 2015: v1.5.4

- Added Twitter Hashtag Monitor for downloading photos from Twitter
- The "Crop image to fit photo area" option now applies to the custom layout. Unchecking this allows a photo to be resized to fit a bounding box instead of being cropped to fit.
- Now supports up to 12 captions in the print layout, options to change the caption display order and the option to right justify the caption text

17 August 2015: v1.5.3

- Added the ability to load different overlay.png and background.jpg images according to the orientation of the first photo
- Minor changes to the way progress information is displayed in Hashtag Monitor
- Added workaround for Instagram "Unsupported size" bug
- Fixed a problem which prevented Hotfolder Prints from monitoring folders with non-ASCII pathnames
- Fixed a problem with Hashtag Monitor when setting the "Max age in hours" to a non-zero value
- Fixed a problem with the stable time setting in Breeze Viewer

7 July 2015: v1.5.2

- Added "Mosaic with zoom + bg fade" slideshow transition to BreezeViewer
- Re-written Hashtag Monitor so that login the screen can handle Captcha codes
- Added {field,n,str} token to make it easier to extract values from strings
- Fixed a problem with the "Match filename" option not working after adding unicode support in v1.5

19 February 2015: v1.5.1

- Fixed a problem with caption font sizes when using a custom output size in Hotfolder Prints
- Fixed a problem with reading the hotfolder location when launching Hotfolder Prints with an XML settings file
- Added the option to save the Instagram username and password when running Hashtag Monitor
- Added configurable polling interval option for Hashtag Monitor (accessed via Configure.exe utility)
- Added desktop shortcut for Hashtag Monitor for easier launching
- BreezeViewer now accepts tokens for the date when specifying the folder to monitor

29 January 2015: v1.5

- New [Instagram hashtag monitor](#) for downloading Instagram photos with a given hashtag
- Added optional color management when printing
- Added [interactive editor for print layouts](#)
- Added the importing and exporting of photobooth print layouts
- Added the ability to print QR codes on prints
- Added unicode support for handling characters in most languages
- Added the option to leave a space between images when using the mosaic layout option in

BreezeViewer

- Added captions in the mosaic transitions in BreezeViewer
- Added mosaic zoom transition to BreezeViewer
- Added the option to crop photos before displaying them in BreezeViewer
- Added a user definable background color and an optional background image for the slideshow in BreezeViewer

18 October 2013: v1.4.4

- Added the ability to email photos using HTML formatting
- Added the option to scan subfolders for images to the [Breeze Viewer slideshow utility](#)

19 April 2013: v1.4.3

- Added the option to wait for the XML file and to read the filenames of the images from the XML file
- Added auto color/B&W option which reads the color/B&W mode from the XML file
- Added the ability to send emails to multiple email addresses read from the XML file by using the {user_data_emails} token
- Added the ability to specify the caption text, font, color and placement to BreezeViewer slideshow utility
- Added "mosaic", "mosaic with fade" and "mosaic with dissolve" slideshow transitions to BreezeViewer slideshow utility
- "None" and "mosaic" slideshow transitions in BreezeViewer optimized to run faster on graphics cards without graphics acceleration
- Fixed a problem which could cause the folder being monitored changing after 60 secs when loading settings from the command line

10 December 2012: v1.4.2

- Added an option to wait for the XML file, containing data such as the user's email address, to be written before processing images
- Fixed a problem with email_image.exe displaying a timed error message when there isn't an internet connection

9 November 2012: v1.4.1

- Added an option to automatically create the folder being monitored if it doesn't already exist
- Added optional naming of the JPEG copy of the printed output by using tokens in the filename prefix
- Added notes about automatically uploading images to Facebook and photo sharing sites using DropBox/Google Drive/Box and IFTTT

8 June 2012: v1.4

- Added automatic print copies option which reads the number of copies to print from the XML summary file written by Breeze Systems' photobooth software
- Now has the option to save the current printer settings when saving the settings to file and to restore them when the settings are loaded from file
- Added information about automatically uploading images to Facebook and photo sharing sites using DropBox/Google Drive/Box and WappWolf
- email_image.exe no longer displays a timed error message dialog if there is no internet connection

29 February 2012: v1.3

- Now includes the [Breeze Viewer slideshow utility](#)
- Log email addresses option now also keeps a separate log of failed emails to make it easier to resend them later
- Added an option to copy JPEG output to a separate folder
- Added more detailed help on how to upload photos to Facebook and other social networking sites
- JPEG copy subfolder now accepts absolute pathnames

27 September 2011: v1.2.3

- Added an option in email_image.exe to save email addresses to a CSV log file
- Fixed a problem emailing images when the image filename or folder contains spaces
- Fixed a problem emailing images when the number of retries was set to none

11 August 2011: v1.2.2

- Fixed a problem reading <user2_data> to <user9_data> tags from the XML summary file written by our photo booth software
- Now doesn't run the optional command if it contains {user_data} tokens which aren't present in the XML summary file (this prevents an error window being displayed when users choose not to email images in the photo booth software).
- Added the ability to use date based tokens when specifying the folder to be monitored. The folder path is checked every 60 seconds and updated if necessary.

12 May 2011: v1.2.1

- Now reads multiple user data fields (e.g. names and email addresses) from XML files written by Breeze Systems' photobooth software when using the touchscreen keyboard option
- Rewritten the email_image.exe utility to run as a Windows app to avoid having a Command Prompt window popping up when it is run. The email_image.exe utility now has a debug mode, the option to retry if sending the email fails and a send test email button to help with setting it up.

21 March 2011: v1.2

- Added the ability to read user data (e.g. email addresses) from XML files written by Breeze Systems' photobooth software when using the touchscreen keyboard option
- The filename prefix and subfolder where JPEG copies of layouts are saved is now user definable
- Regular expressions may be used to control which images added to the folder being monitored are processed

10 December 2010: v1.1.1

- Now appends a number to the filenames of saved JPEG layouts to avoid overwriting existing files
- [email_image.exe command line email utility](#) now has the option to specify the port number of the email server and to use SSL STARTTLS to send secure emails
- Now includes an [email settings dialog](#) to help setup the command line for emailing images

1 October 2010: v1.1

- Added the ability to specify a [custom page size](#) when the output setting is "JPEG copy only"
- Added an [optional command line](#) to run on the JPEG print layout e.g. to allow images to be automatically uploaded to photo sharing and social network sites
- Now automatically loads settings from a file if the file is dragged and dropped on the Hotfolder Prints desktop icon
- Now detects images that are added to the folder using a different file extension (e.g. .tmp) and then later renamed to have a .jpg file extension

9 July 2010: v1.0.1

- Added optional delay before processing images
- Added option to pause/resume printing
- Improved the user interface so that controls are no longer disabled during printing
- Added keyboard shortcuts for selecting B&W/color and the number of copies to print

15 June 2010: v1.0

- First public release