



CM Batch Photo Processor

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# Introduction

CM Batch Photo Processor helps you in performing the mundane and tiresome task of having to batch resize and rename all your photos while giving you back the time to doing what you enjoy doing.

It does :-

- \* Batch Resizing (Downsizing and Upsizing)
- \* Batch Resize Images into Fixed Dimension Frames while retaining Image Ratio Aspect
- \* Batch File Renaming for Photos or Any Files
- \* Automatically Read in the EXIF Rotation Setting and Determine the rotation angle needed for each photo
- \* EXIF Information are copied between JPEG, CR2, NEF, ORF, SR2, ARW, HEIC and TIFF format when converting between these formats
- \* Batch Rotation of Photos
- \* Supposed Lossless JPEG Rotation
- \* Add Text Captions to Photos with support for Transparency
- \* Add Image (PNG) Watermark to Photos with support for Transparency and Resizing
- \* Text Caption & Watermark Alignment options include Top (Left, Middle, Right), Center (Left, Middle, Right), Bottom (Left, Middle, Right). Diagonal, Vertical (Left & Right) TopDown & BottomUp are also available for Text Caption
- \* Batch Effect Manipulation such as Oil Paint, Sepia, Equalize, Brightness, Rainbow Effect, Crystallize, Normalize, Grayscale, Sharpen, Blur, Engrave, Solarize, Contrast and Auto Level Enhancement
- \* Batch Conversion of Image Format
- \* Batch Import of Folders of Photos using the Load Folders or by dragging and dropping a folder into the application.
- \* Supports JPEG, Canon RAW (CR2 & CR3), FujiFilm RAW (RAF), Hasselblad RAW (3FR), High Efficiency Image File (HEIC) (High Sierra and above), AVIF, Mamiya RAW (MEF), Nikon RAW (NEF), Olympus RAW (ORF), Panasonic RAW

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(RW2), Pentax RAW (PEF), Sony RAW (SR2 and ARW), Single Page TIFF, PNG and BMP Photos.

- \* Supports Output to 48 Bit Color Depth TIFF
- \* Automator mode which will check for images in the Hot Folder to process

It can do all these with a few easy settings and it works faster than if you can do it manually.

Resizing is never easier as it provides you with several methods such as Downsizing by Pixel, Upsizing by Pixel, Resizing by Percentage and several quick ratios to use.

The renaming feature allows you to add Prefix and Suffix to your existing filenames and/or include an auto-generated running number to it. You can tag on any text to the filenames so that in the near future when you refer to those photos, you would know where and when they are taken.

Apart from helping you resize and rename your photos, CM Batch Photo Processor can help you rotate photos and add that extra spark to your photos through its manipulation option, some of which includes Sharpen, Blur, Oil Paint, Negative, Equalize, Sepia and Grayscale effects.

When you take pictures in landscape mode on an iPad, iPhone or an iPod Touch, it will show up as portrait mode in iPhoto, use CM Batch Photo Processor to rotate them to the correct orientation in a few seconds.

CM Batch Photo Processor is a great tool for both professional and amateur photographers alike. It certainly is a handy app to have for anyone who deals with photos.

Resized photos would be small enough to send to your friends or put on the web and can be viewed by Mac, Windows and Linux users alike.

Like they say, a Picture paints a thousand words and CM Batch Photo Processor would certainly make that task easier for you.

# Version History

v3.0.0	- We improved the Mojave's Dark Appearance Support by reworking some of the Toolbar icons and reworked the File Listing Headers
v3.0.1	- Further Improvements for Mojave's Dark Appearance Support
v3.0.2	- Internal Updates
v3.0.3	- Fix an issue where the Second Progress bar is not moving when Multi-threading is enabled and there is more than 11 photos on the list
v3.0.4	- Improved Support for Checkboxes
v3.0.5	<ul style="list-style-type: none"> <li>- Internal Updates</li> <li>- Fixed the Dropdown Arrow to change when switching between the Dark and Light Appearance</li> <li>- Re-released CM Batch Photo Processor on our website</li> <li>- Rewrite the Help Manual</li> </ul>
v3.0.6	<ul style="list-style-type: none"> <li>- Internal Updates</li> <li>- Fix bug which causes the old online manual to show up</li> </ul>
v3.0.7	- Improvement in the Licensing Module
v3.0.8	- Internal Updates
v3.0.9	- Internal Code Optimization
v3.1.0	<ul style="list-style-type: none"> <li>- Updated Internal Code to prevent a crash when the filename contains dashes ie /</li> <li>- Improved Internal Code to speed up processing for the non-AppStore version which does not have the same AppStore Sandbox restriction.</li> <li>- Fixed Rotate 180° Not Rotating when using the Set All to Rotate 180°</li> </ul>
v3.1.1	- Fixed Possible Memory Leak Instance
v3.1.2	- Update JPEG Engine
v3.1.5	<ul style="list-style-type: none"> <li>- Added Lossless JPEG Rotation Support</li> <li>- Fixed EXIF Header not corrected after rotation</li> </ul>
v3.2.0	- Add Batch Filename Changing Module which is a standalone module which can rename any file types.

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v3.2.1	- Added Option to use EXIF Date within the Batch Filename Changer module
v3.2.2	- Fixed HEIC EXIF Data not extracted when converting to another format - Updated with new Framework
v3.2.5	- Support Exporting to HEIC Photo Format - Support Exporting to JPEG 2000 - Code Improvement to the EXIF module
v3.2.6	- Reworked the Thumbnails on the File Listing
v3.2.7	- Added Input Support for Canon RAW v3 (CR3) - Improved Speed of Loading Up RAW Thumbnails to the List
v3.2.8	- Improve feedback when loading up huge list to the File Listing
v3.2.9	- (App Store Version Only) Rewrote the Module which seeks for Write Permissions due to the sandbox requirement
v3.3.0	- Added Input Support for Adobe RAW (DNG), Fujifilm RAW (RAF), Hasselblad RAW (3FR), Mamiya RAW (MEF), Panasonic RAW (RW2), Pentax RAW (PEF) and Samsung RAW (SRW)
v3.3.1	- Fixed possible file deleting when saving to the original folder by adding new safeguards
v3.3.2	- Reworked the way files are loaded to the list so as to shave several milliseconds per photos.
v3.3.3	- Fixed a crash when the filename contains a "/" slash
v3.3.4	- Fixed when Orientation is set to Rotate 180°, the image is not rotated.
v3.3.5	- Added Support for Minolta RAW (MRW) and Nikon RAW (NRW)
v3.3.6	- Added Full Image Preview Support
v3.3.7	- MacOS 10.15 Catalina Update - Fixed crash when the Frame Color Selector is pressed twice
v3.3.8	- Updated Internal Framework - Image Thumbnails are now centralised in the File Listing - Additional internal code rework for Catalina - Multithreading kicks in when there are more than 6 photos on the list and "Enable Multithreading" is checked - Added the Auto-Increment option for the Start Number in Main Filename Changer section
v3.3.9	- Fixed an "Out of Bounds" crash when using Load Folders



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v3.4.0	- Fixed Watermark not showing up
v3.4.1	- Perform Internal Code Optimization
v3.4.2	- Reworked the Filename Changer module
v3.4.3	- Reworked the Load Folders method so as to speed up the loading of large list of files
v3.4.4	- Fixed a hang while processing where the "Retain Folder Structure" is checked and some sub folders contains no files but their child sub folders contains files
v3.4.5	<ul style="list-style-type: none"> <li>- Fixed an issue where the PNG images are not loaded</li> <li>- Support Retention of Folder Dates when using the combination of Load Folders + Retain Folder Structure + Keep Original File Creation Date</li> </ul>
v3.4.6	- Fixed crash when the JPEG does not contain EXIF Data
v3.4.7	- Optimize internal codes
v3.4.8	<ul style="list-style-type: none"> <li>- When using Load Folders, the files retrieved would be alphabetically sorted in the ascending order</li> <li>- Speed up JPEG Processing</li> </ul>
v3.4.9	<ul style="list-style-type: none"> <li>- Updated Internal Framework</li> <li>- Revert the sorting of list using the Load Folders as it changes the folder order</li> </ul>
v3.5.0	<ul style="list-style-type: none"> <li>- Fixed JPEG shows up smaller in the Image Preview</li> <li>- Speed Up Resizing Images</li> </ul>
v3.5.1	- Reworked the Filename Changer module
v3.5.2	<ul style="list-style-type: none"> <li>- Reworked the Filename Changer to include Creation, Modification and EXIF Date on the list.</li> <li>- Now the dates are polled when the files are added</li> <li>- Fixed an issue where the Batch Filename Changer's controls get misaligned when resized</li> </ul>
v3.5.3	- Added Support for EXIF Tags - Copyright and Artist
v3.5.4	- Speed Up the Image Processing
v3.5.5	- Improved Thumbnail Quality for Retina Display
v3.5.6	- Improved Support for HEIC Photos
v3.5.7	- Updated Underlying Framework
v3.5.8	- Overhauled the Underlying Framework

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v3.5.9	- Reworked the Load Files method so as to speed up the loading of large list of files
v3.6.0	- Updated UI - Updated Underlying Framework
v3.6.1	- Add WEBP Import and Export Support
v3.6.2	- Reworked the PNG Photo Support
v3.6.3	- Updated Underlying Framework - Improved Support for HEIC Photo Support
v3.6.4	- Improved TIFF Support
v3.6.5	- Updated Underlying Framework
v3.6.6	- Added Option to Filter Image Type using Load Folders - Fixed raw instance where the JPEG preview shows up as a small thumbnail
v3.6.7	- Updated Underlying Framework
v3.6.8	- Added RAW Support for Olympus C3030Z, C5050Z, C5060WZ, C740UZ, C740UZ, C770UZ, X200, D560Z, C350Z, E-5,E-10,E-20, E-20N, E-20P, E-420, E-510, E-P5, E-PL6, E-PL7, E-PL10, SP-310, SP-320, SP-350, SP-500UZ, SP-510UZ, SP-550UZ, SP-560UZ, SP-565UZ, SH-2, SH-3, TG-5, TG-6, XZ-2 and XZ-10 through LibRAW framework
v3.6.9	- Added RAW Support for Minolta A1, A2, DiMage 7Hi, DiMage 7i - Added RAW Support for Fuji E550, E900, F600XR, F700, FinePix HS10, FinePix S200EXR, FinePix F900EXR, S5000, S5600, S5200, S6500FD, S9500, S9600, X10, X20, HS20EXR - Added RAW Support for Nikon E-5400, E-5700 - Added RAW Support for Panasonic FZ28
v3.7.0	- Optimize the Image Saving Process - Added Export Support for OpenEXR, GIF, TGA and PDF
v3.7.1	- Updated Underlying Framework - Minor UI Fixes
v3.7.2	- UI Update
v3.7.3	- Updated Underlying Framework
v3.7.4	- Big Sur Support - Updated Underlying Framework
v3.7.5	- Optimised Internal Codes
v3.7.6	- Added Apple Silicon Support - Updated Underlying Framework

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v3.7.7	- Reworked the Clear List Module
v3.7.8	- Updated Underlying Framework - Minor UI Update
v3.7.9	- Improved JPEG Import and Export Support - Added Improved Support for Grayscale PNG - Minor UI Update
v3.8.0	- Updated Underlying Framework - Fixed Filename Changer module progress bar showing 50% at first launch
v3.8.1	- Updated Underlying Framework
v3.8.2	- Updated UI - Optimisation Internal Code
v3.8.3	- Updated Underlying Framework
v3.8.4	- Updated Underlying Framework
v3.8.5	- Fixed Closing the Main Window does not cause the App to Shutdown
v3.8.6	- Updated Underlying Framework - Updated UI
v3.8.7	- Reworked the Color Picker to update in real time and fixed a possible crashed when using the Color Picker with the M1 Processor
v3.8.8	- Updated Underlying Framework - Updated UI
v3.8.9	- Updated Underlying Framework - Updated UI
v3.9.0	- Fixed when Orientation is set to Rotate 180°, the image is not rotated. - Fixed Load Folders not loading photos when Use EXIF (Camera Settings) Orientation is unchecked - Fixed Set All to EXIF Orientation Check not doing anything
v3.9.1	- Fixed Lossless Rotation process which freezes when end
v3.9.2	- Fixed EXIF Header removed when the Source and Destination Folder are the same causing the original files to be overwritten - Fixed image file showing up as 0kb when performing Lossless Rotation where the source and destination are the same
v3.9.3	- Reworked Color Picker
v3.9.4	- Minor UI Update - Updated Underlying Framework
v3.9.5	- Updated Underlying Framework

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v3.9.6	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> <li>- File Listing Update</li> </ul>
v3.9.7	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> </ul>
v3.9.8	<ul style="list-style-type: none"> <li>- Fixed After Processing Preview not showing up</li> <li>- Updated Underlying Framework</li> </ul>
v3.9.9	<ul style="list-style-type: none"> <li>- Revamped the Toolbar</li> <li>- Reworked the JPEG Lossless Rotation Module</li> <li>- Updated Underlying Framework</li> </ul>
v4.0.0	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> </ul>
v4.0.1	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> </ul>
v4.0.2	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> <li>- Internal Code Optimization</li> </ul>
v4.0.3	<ul style="list-style-type: none"> <li>- Added Frame Box Option</li> </ul>
v4.0.4	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> </ul>
v4.0.5	<ul style="list-style-type: none"> <li>- Internal Code Optimization</li> <li>- Updated Underlying Framework</li> </ul>
v4.0.6	<ul style="list-style-type: none"> <li>- Added JPEG 2000 Import Support</li> </ul>
v4.0.7	<ul style="list-style-type: none"> <li>- Fix Crash when running under macOS 10.13</li> </ul>
v4.0.8	<ul style="list-style-type: none"> <li>- Internal Code Optimization</li> <li>- Updated Underlying Framework</li> </ul>
v4.0.9	<ul style="list-style-type: none"> <li>- Internal Code Optimization</li> <li>- Updated Underlying Framework</li> </ul>
v4.1.0	<ul style="list-style-type: none"> <li>- Internal Code Optimization</li> <li>- Updated Underlying Framework</li> </ul>
v4.1.1	<ul style="list-style-type: none"> <li>- Support ICC Profile - ProPhoto RGB ColorSpace</li> </ul>
v4.1.2	<ul style="list-style-type: none"> <li>- Internal Code Optimization</li> <li>- Updated Underlying Framework</li> </ul>
v4.1.3	<ul style="list-style-type: none"> <li>- Fixed EXIF was not transferred to the output images</li> </ul>
v4.1.4	<ul style="list-style-type: none"> <li>- Reworked the EXIF Engine</li> <li>- Fixed PNG not reflecting the correct orientation</li> </ul>
v4.1.5	<ul style="list-style-type: none"> <li>- Reworked the Internals</li> </ul>
v4.1.6	<ul style="list-style-type: none"> <li>- Fix a crash when failing to write to the EXIF Header</li> <li>- Fix Progress bar not stopping when processing less than 5 photos</li> </ul>
v4.1.7	<ul style="list-style-type: none"> <li>- Updated Underlying Framework</li> </ul>
v4.1.8	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>

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v4.1.9	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.2.0	<ul style="list-style-type: none"> <li>• Reworked the Save CSV module in the Filename Changer</li> </ul>
v4.2.1	<ul style="list-style-type: none"> <li>• Improvement in the CSV module</li> </ul>
v4.2.2	<ul style="list-style-type: none"> <li>• Fixed Crash when clicking on the blank space of the File Listing</li> </ul>
v4.2.3	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.2.4	<ul style="list-style-type: none"> <li>• Reworked Tab UI</li> <li>• Updated Underlying Framework</li> </ul>
v4.2.5	<ul style="list-style-type: none"> <li>• Added the option to have the Resizing Settings as a Separate Window</li> <li>• Minor UI Fixes</li> </ul>
v4.2.6	<ul style="list-style-type: none"> <li>• Updated UI</li> <li>• Updated Underlying Framework</li> </ul>
v4.2.7	<ul style="list-style-type: none"> <li>• Added Support for EPS and PS Import *Beta</li> <li>• Added Resizing Method 2.5x, 3x, 3.5x, 4x, 4.5x and 5x</li> <li>• Ensure Raw Images is converted to RGB TIFF when Image Format is set to As Is</li> </ul>
v4.2.8	<ul style="list-style-type: none"> <li>• Fixed Full Page Preview crashes</li> <li>• Added Support for HEIF Input</li> <li>• Added EPS Output Support</li> </ul>
v4.2.9	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.3.0	<ul style="list-style-type: none"> <li>• Reworked the Full Image Preview mode</li> </ul>
v4.3.1	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.3.2	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Fixed Crash when encountering invalid images</li> </ul>
v4.3.3	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.3.4	<ul style="list-style-type: none"> <li>• Internal Code Optimization</li> <li>• Fixed Crash when converting TIFF to PDF</li> </ul>
v4.3.5	<ul style="list-style-type: none"> <li>• Internal Code Optimization</li> </ul>
v4.3.6	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.3.7	<ul style="list-style-type: none"> <li>• Add Automator module which will check for images in a hot folder and process them automatically.</li> </ul>
v4.3.8	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Fixed crash when encountering faulty images</li> </ul>
v4.3.9	<ul style="list-style-type: none"> <li>• Added Rudimentary Support for Radiance HDR Images</li> <li>• Reworked OpenEXR Support</li> </ul>
v4.4.0	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>

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v4.4.1	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.2	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.3	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.4	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.5	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.6	<ul style="list-style-type: none"> <li>• Added Basic Import Support for AVIF Image Format</li> <li>• Updated Underlying Framework</li> <li>• Minor UI Fixes</li> </ul>
v4.4.7	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.4.8	<ul style="list-style-type: none"> <li>• Minor UI Fixes</li> </ul>
v4.4.9	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.5.0	<ul style="list-style-type: none"> <li>• Added More Dots Per Inch Options</li> <li>• Minor UI Fixes</li> <li>• Updated Underlying Framework</li> <li>• Fixed HEIC and WebP Dots Per Inch Not being updated</li> </ul>
v4.5.1	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.5.2	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.5.3	<ul style="list-style-type: none"> <li>• Improved EXIF Module</li> </ul>
v4.5.4	<ul style="list-style-type: none"> <li>• Added Support for JPEG XL Images for macOS 14 Sonoma and Later</li> </ul>
v4.5.5	<ul style="list-style-type: none"> <li>• Added Output Support for AVIF</li> <li>• Fixed HEIF not loading via Load Files</li> <li>• Minor UI Fixes</li> </ul>
v4.5.6	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.5.7	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> <li>• Speed Up Multithreading</li> <li>• Fixed Progress Wheel which was partially showing</li> </ul>
v4.5.8	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.5.9	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.6.0	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.6.1	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>
v4.6.2	<ul style="list-style-type: none"> <li>• Updated Underlying Framework</li> </ul>

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v4.6.3	• Updated Underlying Framework
v4.6.4	• Updated Underlying Framework • Minor UI Fixes
v4.6.5	• Updated Underlying Framework
v4.6.6	• Updated Underlying Framework
v4.6.7	• Updated Underlying Framework • Minor UI Fixes
v4.6.8	• Updated Underlying Framework • Minor UI Fixes
v4.6.9	• Updated Underlying Framework
v4.7.0	• Updated Underlying Framework
V4.7.1	• Updated Underlying Framework
v4.7.2	• Updated Underlying Framework • Minor UI Fixes
v4.7.3	• Updated Underlying Framework • Minor UI Fixes
v4.7.4	• Updated Underlying Framework • Minor UI Fixes
v4.7.5	• Updated Underlying Framework • Minor UI Fixes
v4.7.6	• Updated Underlying Framework • Minor UI Fixes
v4.7.7	• Updated Underlying Framework • Raise Minimum Support to macOS 11
v4.7.8	• Updated Underlying Framework • Minor UI Fixes
v4.7.9	• Updated Underlying Framework • Minor UI Fixes

# System Requirements

- \* 64 Bit Mac running a 64 Bit macOS Big Sur 11 and above
- \* Apple Silicon Native Supported
- \* Intel Processor Supported



# Supported Image Formats

## Import Formats

- BMP
- JPEG
- PNG
- AVIF\*
- DNG RAW\*
- EPS/PS\*\*
- Canon RAW CR2 & CR3\*
- Fujifilm RAW RAF\*
- Hasselblad RAW 3FR\*
- HEIC/HEIF (High Sierra and above)
- Mamiya RAW MEF\*
- Minolta RAW MRW\*
- Nikon RAW NEF & NRW\*
- Olympus RAW ORF\*
- Panasonic RAW RW2\*
- Pentax RAW PEF\*
- Sony RAW SR2 & ARW\*
- TIFF (Single Page)
- WEBP (Lossless and Lossy)
- JPEG 2000\*
- Radiance HDR\*
- OpenEXR\*
- JPEG XL\*\*\*

\* Supported by macOS System Level RAW Image Framework listed at <https://support.apple.com/en-us/HT210191> . Although Apple supports a wide number of digital camera raw formats, it may not support older or recently released models. They do from time to time include new cameras support. When CM Batch Photo Processor encounters a non

supported camera, it will use LibRAW Framework (<https://www.libraw.org/supported-cameras>).

\*\* EPS and PS Import Support is still in beta stage and should work with most EPS and PS images. Those which the app cannot read would not be added to the list. EPS and PS are no longer supported on macOS 14 Sonoma

\*\*\* JPEG XL is supported for macOS 14 Sonoma and later

## Export Formats

- JPEG (Color and Grayscale)
- JPEG 2000
- HEIC (High Sierra and above)
- PNG (Color and Grayscale)
- TIFF (Single Page) 24 Bit and 48 Bit
- WEBP (Lossless and Lossy)
- BMP
- OpenEXR<sup>1</sup>
- GIF (Still)<sup>1</sup>
- TGA<sup>1</sup>
- PDF (Single Page)<sup>1</sup>
- Radiance HDR<sup>1</sup>
- EPS (Ventura and below. This is no longer supported on macOS 14 Sonoma)
- JPEG XL (Supported in macOS 14 Sonoma and later)
- AVIF

<sup>1</sup> - Export supported by MacOS CoreGraphics Engine and does not support EXIF or DPI.

## **ICC Profile (Color Space) Support**

CM Batch Photo Processor would retain the ICC Color Profile of the original images where it is available in the output images.

However, the ProPhoto RGB Color Profile is not support for BMP, WEBP and TGA images.

## **For the Batch Filename Changer Module**

- Supports Any File Types

# Purchase Information

CM Batch Photo Processor is currently available on both the Mac App Store and on our website.

Apps sold outside the Mac App Store are handled by our partner, CREEM.IO.

Both the Mac App Store and our store version comes with slightly different file name and uses different Bundle ID. Our store version will come with the major version number at the end of the App Filename, ie CM Batch Photo Processor 3.

There is no option to provide trials for Mac App Store but a 14 days risk free trial version is available on our website at <https://www.completemagic.com/download/cmbatchprohotoprocessor.dmg>

Once the 14 Days trial period is up, you will not be able to process any photos. The Trial Version also includes the restriction of processing the first 20 photos on the list per run and 10 files on the Filename Changer module.

You can purchase CM Batch Photo Processor through

## **Mac App Store (USD \$14.99)**

<https://itunes.apple.com/us/app/cm-batch-photo-processor/id418319205?ls=1&mt=12>

## **From our website through CREEM.IO (USD \$14.95)**

[https://www.creem.io/payment/prod\\_6qe6OeBKsmsRtLgi11Cc0g](https://www.creem.io/payment/prod_6qe6OeBKsmsRtLgi11Cc0g)

## Registration Process through CREEM.IO

After you purchase a license through CREEM.IO, we will send you your license file via email within 24 hours. The license file will come with a file extension **.cmbpplic**.

On the CM Batch Photo Processor toolbar, you will find the Register button. Click on that and the above will appear. Click **Select License File** and select the file that is attached in your email. Give it a few seconds for it to validate and that's all you need to do. Once validated, you should see your order particulars in the box and in the About page.

# JPEG Lossless Rotation

Introduced in v3.1.5, the JPEG Lossless Rotation make its debut in CM Batch Photo Processor.

JPEG as an image format was set up to be a quick way of storing color photos and uses a lossy compression algorithm to reduce the file size as much as possible. However, in saving disk space, the algorithm can degrade image quality over multiple manipulation. If you require adding text caption then the app would load the entire photo in memory, write the pixels for the text caption to the photo and save it to file. Assuming that the original compression uses 70% quality percentage. Working the photo 3 times would degrade the photo quality by 70% x 70% x 70% (or something to that nature).

For most photographers, the only change might be to change photo orientation especially if you are taking both landscape and portrait orientated photos by flipping the camera to vertically or horizontally.

In the camera, the photos are always taken as landscape mode and using the gyroscope in the camera or phone, it can detect if it is turned. Of course depending on your camera holding preference, a portrait photo can be taken by rotating the camera 90° Clockwise or Counter-Clockwise. All modern cameras now store the photos in landscape mode and store the orientation settings in the EXIF header.

When viewing the photos on a mac, Finder, Preview and other Mac apps are smart enough to read the EXIF header and rotate the photo on the fly so you can view it in the right orientation.

However if you sent the photo to a non-Apple device or computer or even the web, the picture will always show up as landscape in the wrong orientation. This is where the JPEG Lossless Rotation comes in.

In our implementation, the pixels of the JPEG photo would be moved one by one like moving jigsaws to its new orientation thus not affecting the photo quality.

As such lossless rotation can be quite CPU intensive, the process is restricted to a single thread. All photos which is in the correct orientation (ie As Is) would not go through the rotation process but just merely copied over to the output folder for completeness. This goes for any non JPEG files in the File Listing. It also would not show up in the Image Preview window.

The Keep Original File Creation Date and Keep Original File Modification Date check boxes would also be respected.

If you need to do resizing or anything other than just rotating the photos, do uncheck the JPEG Lossless Rotation Only checkbox.

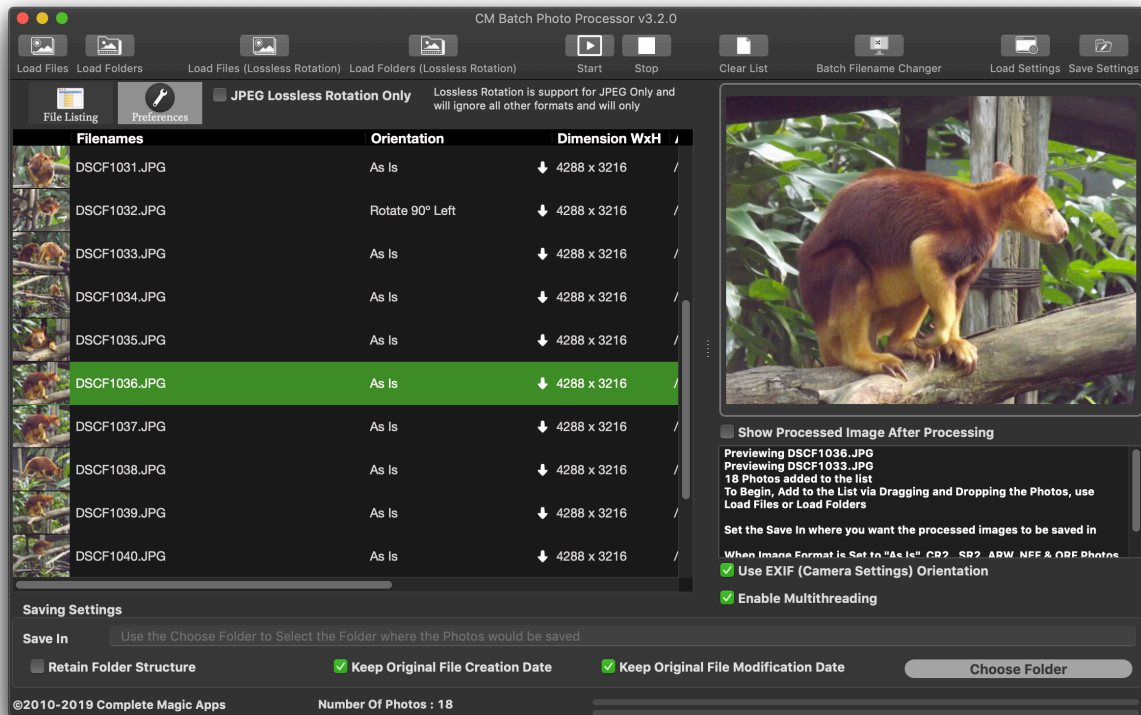
# Batch Filename Changer

In v3.2.0, we introduced a more comprehensive filename changer module to CM Batch Photo Processor. Although the core app does provide a filename renaming feature which is rudimentary, we wanted to incorporate a more comprehensive and flexible filename changing function which handles not only photos but any file types. This can run independently from the core app.

The filename renaming feature under the Settings tab would work only with supported photo files and as it is part of the photo processing, the contents of the photo is being manipulated. The Batch Filename Changer module provides a quick way of just renaming filenames without changing anything within the file.



# Interface Walkthrough



This would be the main screen when you launch the app. It contains a toolbar on the top with the commonly used controls.

There is two tabs, File Listing and Preferences under that. The File Listing contains the thumbnail of the photo, the filename, orientation and dimensions in pixels.

On the left, you find the photo preview and below that the progress status window.

Under all that, you have the Saving Settings where you will set the location where the processed photos would be saved in.

## Tool Bar Controls

There are 4 to 5 sets of controls here which would commonly used.

### LOADING

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There are two buttons under the Loading Controls, these includes Load Files and Load Folders. Both serves to add photos to the list. The third option would be to drag and drop the photos over from the Finder window.

**Load Files** lets you pick one or more photos from a folder. You can launch this several times to pick different photos from different folders. When the JPEG Lossless Rotation Only is checked, only JPEG photos would be added to the list.

**Load Folders** let you pick a folder to load one or all the supported photo types into the list. You can select to either load all supported photo types or a single photo format. You will be prompted if you want to include Sub-folders in the search too. When the JPEG Lossless Rotation Only is checked, only JPEG photos would be added to the list.

### PROCESSING

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Under processing, you have the Start and Stop buttons.

After you load up the list, make the necessary changes to the Preferences including the Save In folder, clicking the Start button will begin the batch processing.

If the JPEG Lossless Rotation Only check box is checked, it will begin the lossless rotation routine. The lossless rotation would only work with JPEG

files skipping not JPEG Photos on the list and ignore all the other processing parameters such as resizing, conversion, text & watermark captions, effects and file renaming as this uses a completely different method of rotation to ensure that the image quality is retained. Any manipulation would effect the image quality.

The Stop button lets you stop the processing after the currently worked on photo.

## **CLEAR LIST**

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Clear List clears the file listing but does not delete the photos from your folders.

## **SAVING AND LOADING SETTINGS**

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We understand that under Preferences there is a whole list of settings you can change and that you might want to use different settings for different classes of photos. For this, we added the options to load and save the settings into a XML style file. So you can set up multiple XML files with multiple settings so it's easy to switch between them. The file is not typed to your specific computer and can be distributed to others using CM Batch Photo Processor.

All the settings apart from the Watermark Photos would be saved. You will need to keep the PNG file for the watermark if you are loading or saving different profiles.

The typical file extension is .cmp

## **REGISTER**

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The Register button will not appear for the Mac App Store version. This option lets you import the purchase license file to unlock the app and import the Mac AppStore license. There is also an option to purchase a license from our store if you have not done so.

The Registration Screen will automatically pop up when the trial period of 14 days has expired. You can purchase a license at that point of time to continue using the app.

## **JPEG LOSSLESS ROTATION ONLY**

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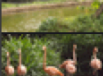


When checked, the loading options would only permit JPEG photos to be added to the list in preparation for the JPEG lossless rotation.

## **SHOW RESIZING SETTINGS IN A SEPARATE WINDOW**

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When checked, the Resizing Settings would show up as a floating window. When unchecked, you can still access the settings under Preferences —> Settings tab.

## File Listing

	Filenames	Orientation	Dimension WxH	Abso
	DSCF7097.JPG	As Is	↓ 4288 x 3216	/Volun
	DSCF7098.JPG	As Is	↓ 4288 x 3216	/Volun
	DSCF7100.JPG	As Is	↓ 4288 x 3216	/Volun
	DSCF7101.JPG	Set All to As Is Set All to Rotate 90° Right Set All to Rotate 90° Left Set All to Rotate 180° Set All to Flip Left Set All to EXIF Orientation Check Remove from the List	↓ 4288 x 3216	/Volun
	DSCF7102.JPG		↓ 4288 x 3216	/Volun
	DSCF7103.JPG		↓ 4288 x 3216	/Volun
	DSCF7104.JPG		↓ 4288 x 3216	/Volun
	DSCF7105.JPG	As Is	↓ 4288 x 3216	/Volun
	DSCF7106.JPG	As Is	↓ 4288 x 3216	/Volun
	DSCF7107.JPG	As Is	↓ 4288 x 3216	/Volun

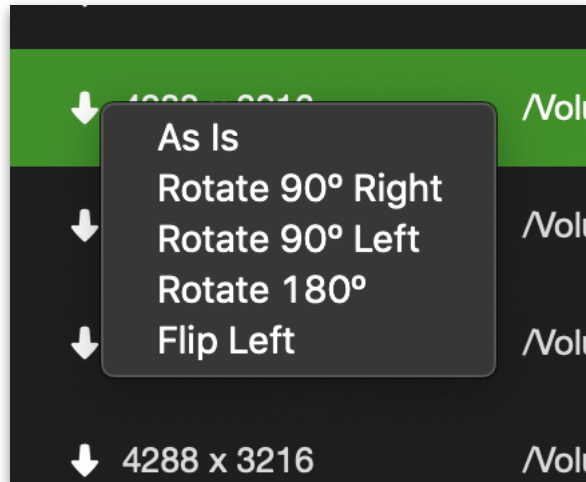
The File Listing is where the Files to be processed is listed by using the Load Files, Load Folders or by Dragging and Dropping the Photos from Finder to the list.

You will see Thumbnail of the Photos, the Filename, the Orientation of the Photo, Dimension in Pixels and the File Path.

## ORIENTATION

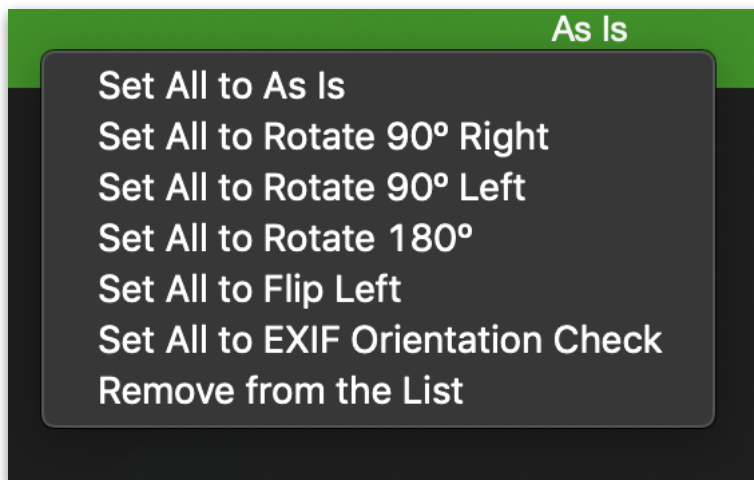
If the Use EXIF (Camera Settings) Orientation is checked, the app will check the photo header to determine the orientation that is needed to get them to the right orientation.

However, you can always change the orientation of the photo individually by clicking in the orientation column for that photo and perform the change.



## CONTEXTUAL MENU CONTROLS

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You will bring up the contextual menu by either doing a Control+Click or if you are using a 2 button mouse, click the right-most button.

In here you can set to change the Orientation of all the Photos on the List or to remove that selected photo from the list.

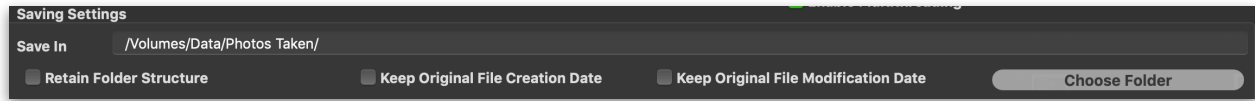
## **SORTING THE LIST**

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To sort the list, click on the Filenames header to toggle between Ascending or Descending sort.

## SAVING SETTINGS

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The Saving Settings let you determine where you want to save the processed photos in. Use the Choose Folder to pick the folder.

The Retain Folder Structure option when check would work when you use the Load Folder method of loading the photos with sub folders included.

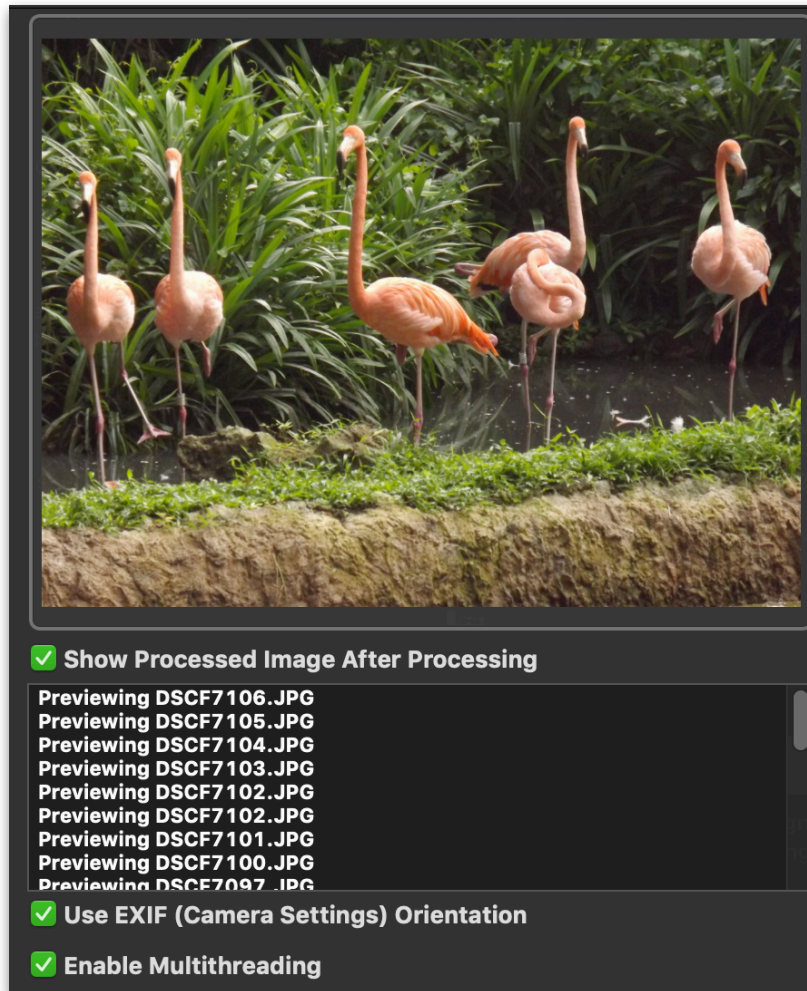
The other options which includes Keep Original File Creation Date and Keep Original File Modification Date when check will use the best effort to retain those respective dates for the processed photos.

Changes made by CM Batch Photo Processor is not reversible and thus it is a good idea to save the processed photos in a different folder than the original. If they are the same, the original photos would be overwritten and there would not be a way to recover them. Thus backups for critical photos would be a prudent idea.



## RIGHT PANE

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On the top of the pane, you get the larger image preview for the selected photo on the list. To get a full image, bring up the contextual menu and select Full Image View. This will load the full image in a separate resizable window which you can shrink or enlarge using the + - button on the left or use the trackpad or touchpad to pinch to zoom.

~~The Show Processed Image After Processing when checked will show the processed photo after it has been processed.~~ **This has been removed as it is no longer relevant with multithreading.**

Below that is the status window which will show the activity being performed.

The Use EXIF (Camera Settings) Orientation when checked will cause CM Batch Photo Processor to check the exif header in the photos (if available) to determine the best orientation to use for the photos. If they are already in the right orientation or the settings cannot be found, the orientation will show as As Is.

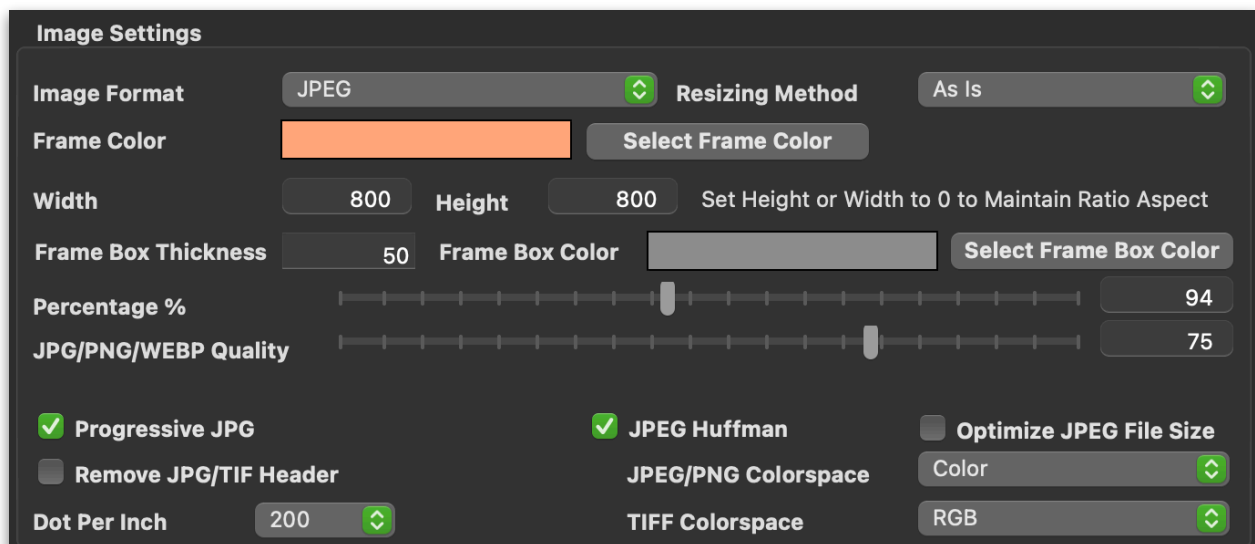
Enable Multithreading when check will spilt up the list into two process to speed up the processing. If there is less than 7 photos on the list, the app will use a single thread to process the photos.

# Preferences Walkthrough

There are 3 tabs under Preferences which includes Settings, Effects & Text Caption and Watermark & EXIF Tags.

These determines how the photos would be processed and there is quite a number of settings to go through which we will explore in the next section.

## Settings



## IMAGE SETTINGS

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### *Image Format*

The supported Image Format includes As Is, HEIC, JPEG, JPEG 2000, PNG, TIFF, TIFF 48 Bit, WEBP, WEBP Lossless, BMP, Radiance HDR, OpenEXR, GIF, TGA, PDF and EPS which are the commonly used photo formats. EPS is not supported in macOS 10.14 Sonoma and above.

When As Is is used and the photo is one of the supported output format, it would save in the original format.

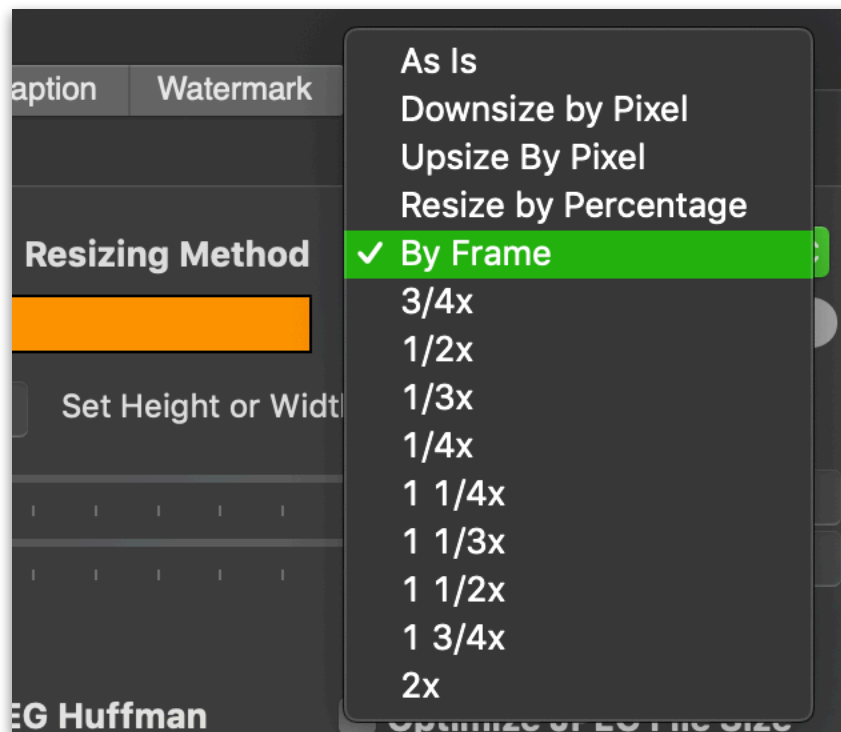
CM Batch Photo Processor supports other raw photo formats. However, the app currently does not support saving in those raw formats as they are proprietary formats. If the original photos are in Raw photo formats and the 'As Is' option is selected, the output photos will be saved in TIFF 48 Bit format.

WEBP is currently not supported natively on the Mac, it is however viewable through this app or through Chromium based web browser. This app supports both the lossy and lossless WEBP image format. This format was created to retain high image quality while using a smaller file size compared to JPEG or PNG, which makes it a good image format for the web. The file difference could be anything between 50 to 80%

This app supports export to both Lossy and Lossless WEBP. Lossy WEBP would export a smaller file size while the Lossless WEBP would export an uncompressed image.

EPS Output Support is currently rudimentary. It converts the raster images to vector instructions and thus the larger the image dimensions, the longer it takes to load up. Typically stay no greater than 4000 x 4000 pixels as if the dimensions is too huge, it may fail to load. EPS Support is not available for macOS 10.14 Sonoma and above.

## Resizing Method



The Supported Resizing Method includes the above. When As Is is used, the photos would not be resized.

When using Downsize by Pixel or Upsize by Pixel, the Width and Height settings would be used. Setting either one 0 will ensure CM Batch Photo Processor calculate the best dimension which was set 0 to ensure the Ratio Aspect is maintain.

In the Downsize by Pixel, the Width and Height are the largest dimension to use. Anything larger would be downsized. In the Upsize by Pixel, the Width and Height are the smallest dimension to use. Anything smaller would be upsized to the stated dimension.

For Resize by Percentage, the Percentage % would be used. The ratio aspect would be respected. Use the slider to select the percentage to use.

For By Frame, the Frame Color, Width and Height would be used. The Width and Height would be the size of the frame and the photo would fit in that dimensions with the ratio aspect maintain. Any dimension which are smaller would be padded with the Frame Color. Click the Select Frame Color to pick a color for the frame. This option would be useful if you need to keep all photos with the same size irregardless of their dimensions. If however, you just need a frame around the photos, use the Frame Box Option.

### ***Frame Box Thickness & Frame Box Color***

Unlike Resizing By Frame, the Frame Box option would create a border around the photos. When the Frame Box Thickness (in pixels) is set to above 0, it would add a frame around the photos.

The Frame Box Color determines the color used for the Frame Box.

### ***JPG/PNG/WEBP Quality***

This slider will determine the photo quality for JPEG, WEBP and PNG output photos. The higher the quality, the bigger the file size. A compromise would be to set it between 70 to 80% to get the sweet spot with a smaller file size with a slight degrading in photo quality which may not be visible.

The WEBP Quality would be used for WEBP (Lossy). The Lossless WEBP would be saved without compression.

### ***Progressive JPG***

When using the photos on the internet especially for slower download speed, it could take a while for the photo to show up. When the Progressive JPG option is checked, the photo would showup progressively as it is being loaded.

### ***JPEG Huffman***

This option will optimized the photo with the huffman algorithm

### ***Optimize JPEG File Size***

When checked, the app will perform several additional proprietary processes to further reduce the JPEG file size.

### ***Remove JPG/TIF Header***

The JPEG Photos use the EXIF header to store meta data in the header which includes camera information, GPS coordinates and so on. This will take up several hundred kilobytes of space likewise for the TIFF files.

If you do not require these headers and need to reduce file size such as to use these photos as thumbnails, you can check this option.

### ***JPEG/PNG Colorspace***

The two available options are Color and Grayscale. The Color option would save the JPEG and/or PNG photos in full 24 Bit colors or the 8 Bit Grayscale photo.

### ***Dots Per Inch***

This sets the Dots Per Inch settings for the photos. For the most parts, the photo viewer or website would ignore this settings.

However the DPI settings is still relevant for desktop publishing or for embedding photos into apps particularly for Retina Display. We included the commonly used DPI options.

The Dots Per Inch is not supported for JPEG 2000, OpenEXR, GIF, TGA , PDF and HDR Output images.

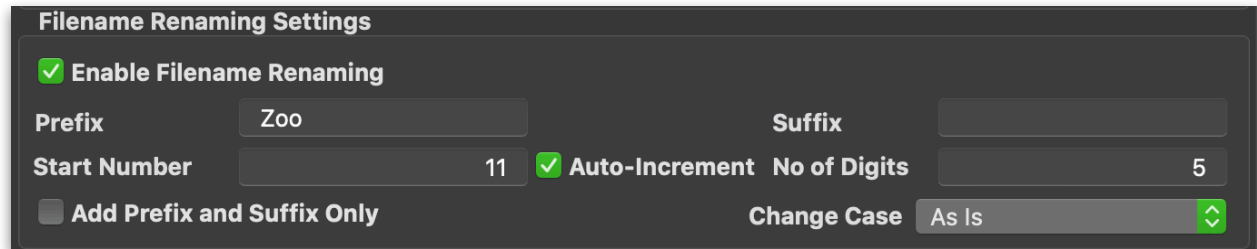


## ***TIFF Colorspace***

The three available options are RGB (Color), Grayscale and Black and White.

## FILENAME RENAMING SETTINGS

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The screenshot shows a 'Filename Renaming Settings' dialog box with a dark background. It contains several controls: a checked checkbox for 'Enable Filename Renaming', a 'Prefix' text field with 'Zoo', an empty 'Suffix' text field, a 'Start Number' spinner set to 11, a checked checkbox for 'Auto-Increment', a 'No of Digits' spinner set to 5, an unchecked checkbox for 'Add Prefix and Suffix Only', and a 'Change Case' dropdown menu set to 'As Is'.

Setting	Value
Enable Filename Renaming	<input checked="" type="checkbox"/>
Prefix	Zoo
Suffix	
Start Number	11
Auto-Increment	<input checked="" type="checkbox"/>
No of Digits	5
Add Prefix and Suffix Only	<input type="checkbox"/>
Change Case	As Is

The camera and scanner would use their own file naming convention which may be cryptic and certainly not descriptive. This is where the Filename Renaming Settings comes in.

This is a simple but effective naming process which lets you either change the either filename or just add the prefix and suffix.

**If you require more flexibility in how the filename would be changed to or just need to rename any of your files, you can use the Batch Filename Changer module which is accessible on the toolbar.**

To use the Filename Renaming Settings, you will need to first check this option.

The Prefix would be used to tag the front of the filename and the Suffix at the back before the file extension.

The Start Number and No of Digits would be used when the Add Prefix and Suffix Only is unchecked. This provides a running number for the photos on the list between the Prefix and Suffix.

The Start Number in this case would represent the first number to be used on the first file on the list. When the Auto-Increment option is checked, the

Start Number would reflect the new start number for the next batch which would take into account the number of photos previously processed. So if you have a list of 10 photos and the Start Number is set to 1, after processing, the Start Number would be auto-set to 11.

The No of Digits determines the padding to be used for the running numbers. For example if you set the No of Digits to 4 and the Start Number is 1, it would be padded to 0001. This will make it easier to sort the file list and prevent the common issue where 10 will appear before 2 on the file listing.

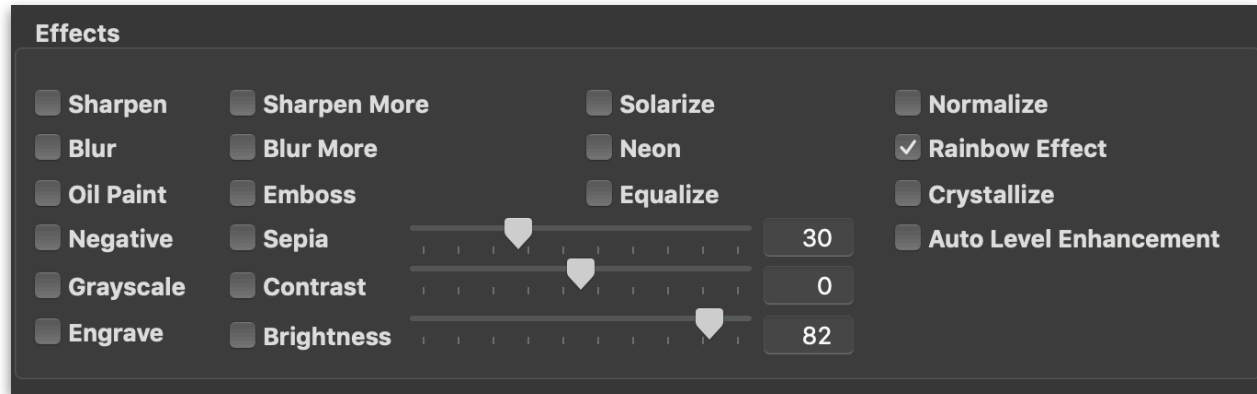
The Add Prefix and Suffix Only option will just tag the Prefix and Suffix to the original filename. If you do not want either the prefix or suffix, just leave that option blank.

Change Case option can be useful if you are using the photos on a case sensitive Operating System. This is particularly true if you plan to use the photos on a Linux based Web Server. Setting it to either lowercase or uppercase will ensure consistency.

## Effects & Text Captions

### EFFECTS

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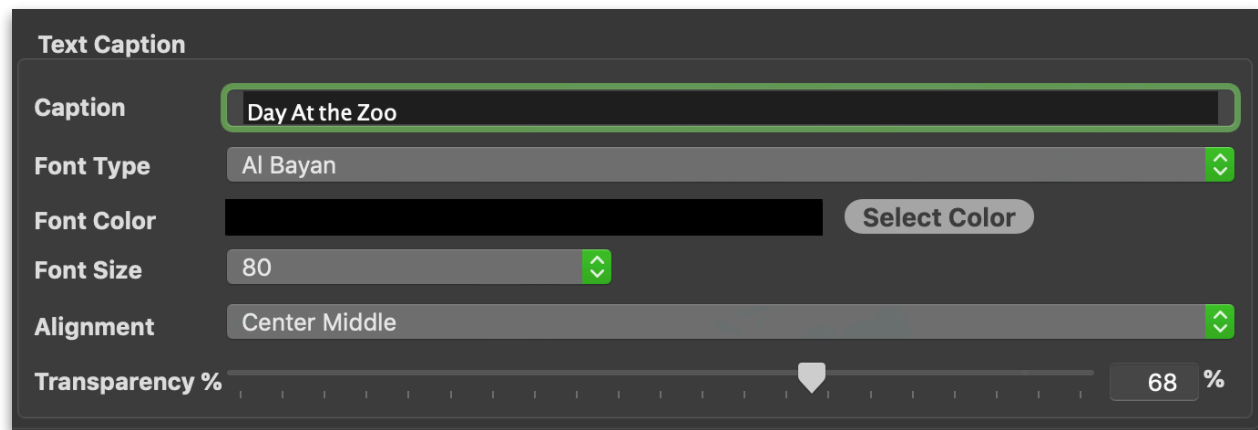
There are a number of effects which CM Batch Photo Processor offers, some of which can help fix or adjust the photos while others adds special effects to them.

You can test the effects by checking them and if they have sliders, make the adjustments. On the right preview pane, the selected photo on the file listing would show with the applied effects. If no photo is listed or the list is empty, a sample photo would be used so that you can test the effects in real time and use the ones you want. You can use one or more effects at the same time.

The Oil Paint effect is a complex effect and may take a little longer to show up when you check the option.

## TEXT CAPTION

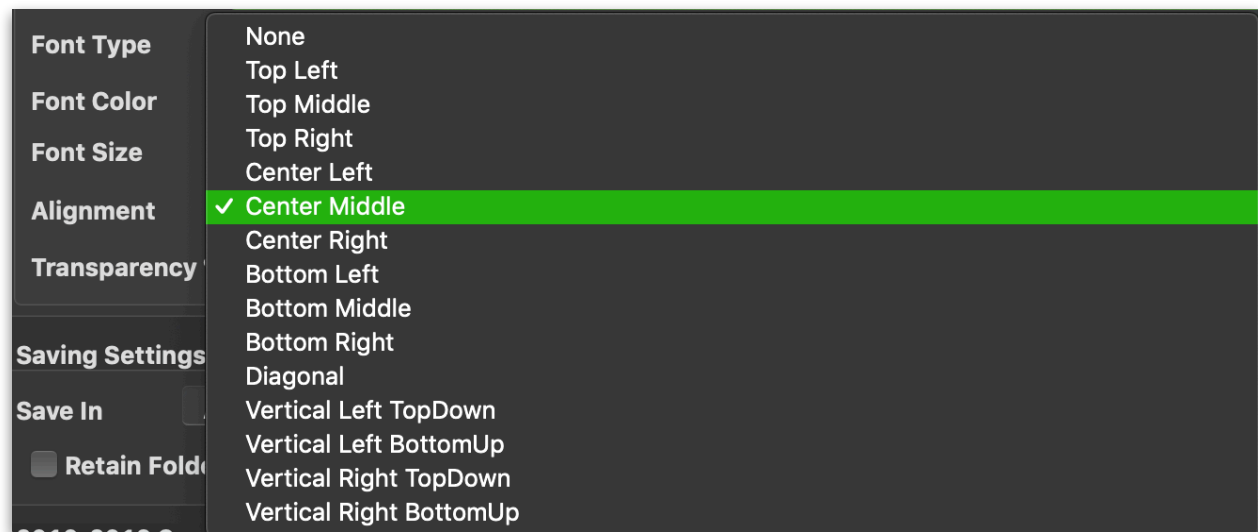
---



The screenshot shows the 'Text Caption' settings panel. It includes a 'Caption' text field with the value 'Day At the Zoo', a 'Font Type' dropdown set to 'Al Bayan', a 'Font Color' selector with a 'Select Color' button, a 'Font Size' dropdown set to '80', an 'Alignment' dropdown set to 'Center Middle', and a 'Transparency %' slider set to 68%.

Text Captions are text embedded into the photos which could be either copyright tags or static description to add to the photo.

### ***Alignment***



The screenshot shows the 'Alignment' dropdown menu open. The options listed are: None, Top Left, Top Middle, Top Right, Center Left, Center Middle (highlighted with a green checkmark), Center Right, Bottom Left, Bottom Middle, Bottom Right, Diagonal, Vertical Left TopDown, Vertical Left BottomUp, Vertical Right TopDown, and Vertical Right BottomUp.

CM Batch Photo Processor offers a 14 Alignment options to place the text at. When the Alignment is set to None or when there is no Text Caption, no text would be added to the photos.

The Diagonal option will place the text in the center at a 45° angle from the bottom left to right top.

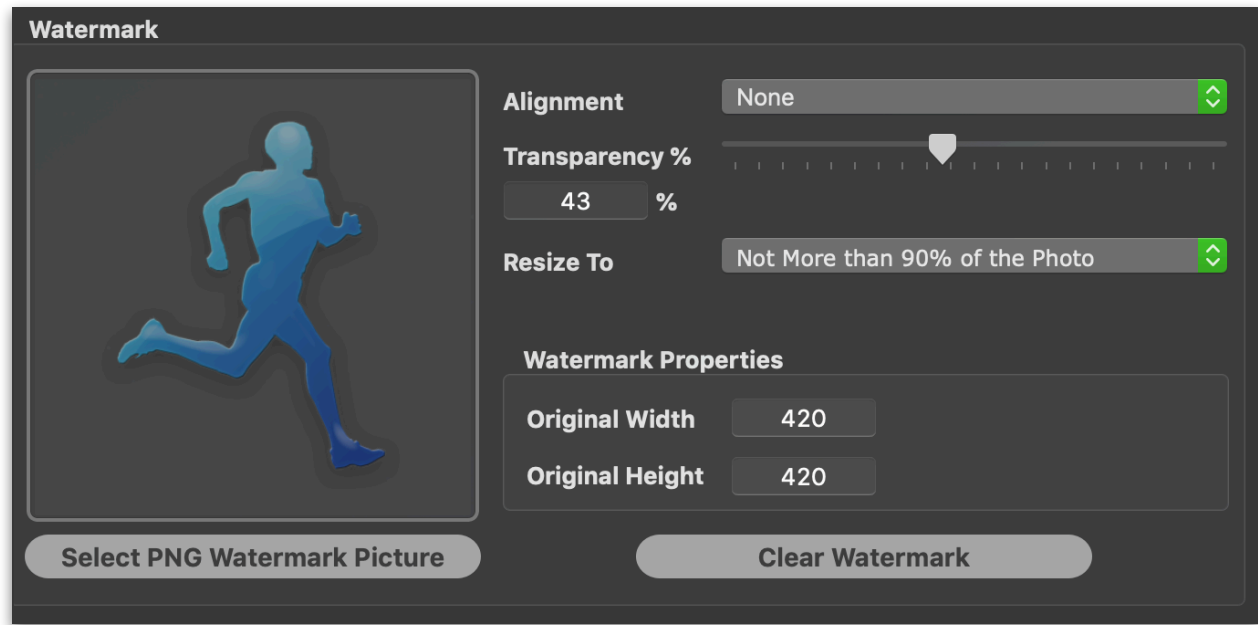
The Vertical Left and Right options will add the text at either the left or right side of the photos respectively.

### ***Transparency %***

The transparency slider let you determine how transparent or opaque the text is. 0 will be fully opaque and 100 will be fully transparent.

Fully opaque text may block critical parts of the photo so setting some transparency will ensure the text caption is visible without effecting the photo.

## Watermark



The Watermark is a graphical version of a text caption. This is useful for adding copyright tags or company logo to the photos and can be use together with the text captions.

We find that the PNG is the best option for watermark as it supports alpha channels which provides for the transparent background.

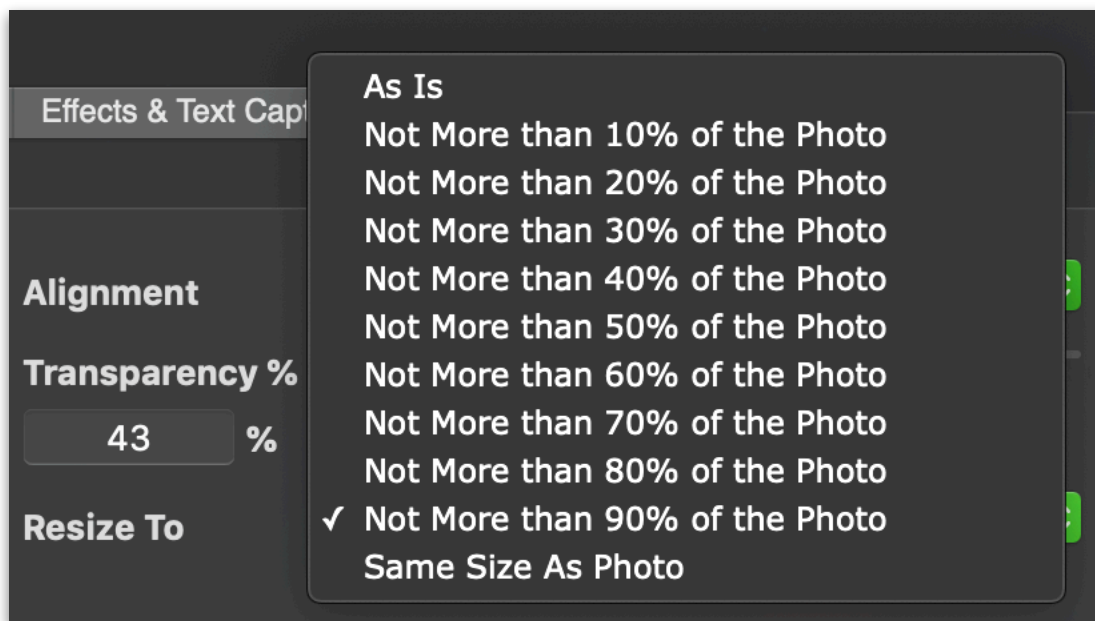
First click the Select PNG Watermark Picture to pick the watermark you want. This will show up in the left watermark preview.

As with the text caption, we provide several locations where you can insert the watermark at. The Vertical Left and Right and the Diagonal Options are however not available here. As with the text caption, setting the Alignment to None will disable the watermark feature.

The Watermark Properties shows the Width and Height of the Original Watermark PNG file.

## ***Resize To***

The application does not prevent you from using a larger watermark than the photos themselves and if it is left as it is, the entire watermark would block the photo would not be acceptable. As photos on the list can be of different dimensions, keeping a single watermark might look bigger on some photos and smaller on others.



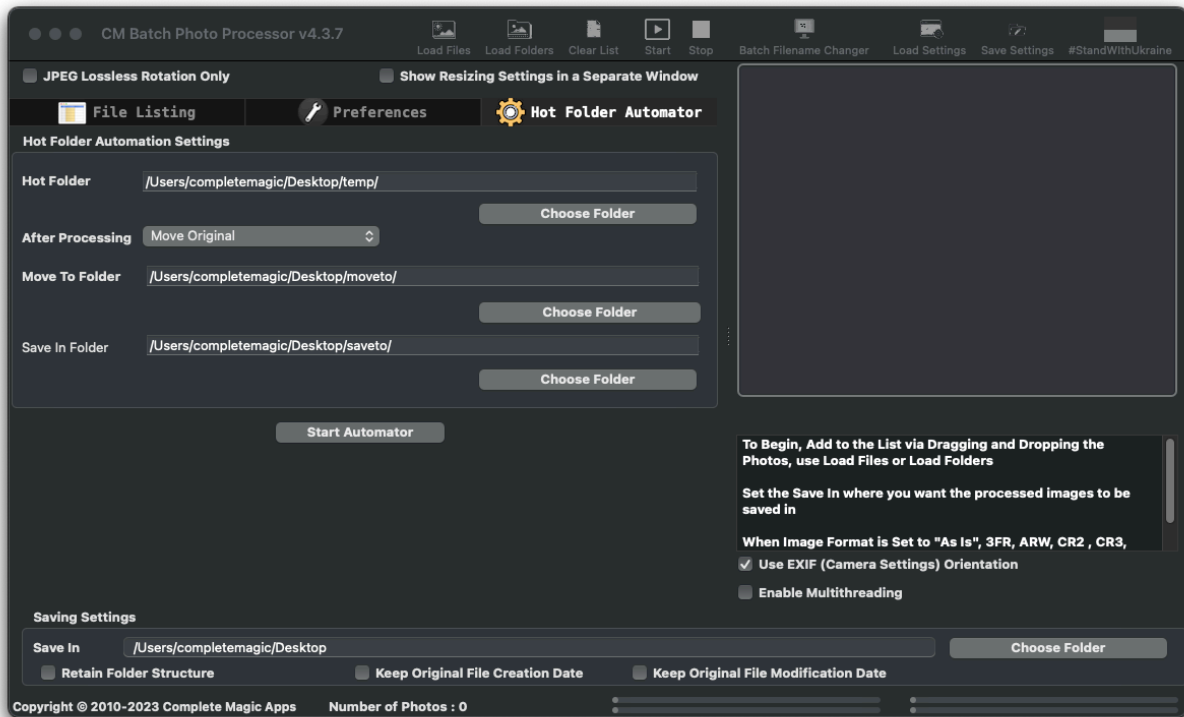
As such, we included the option to determine the size of the watermark in proportion to the photo. As Is will just use the watermark as it is without resizing while Same Size as Photo would resize the watermark to be as large as the photo itself. The other options will ensure the watermark is not larger than the selected percentage and if it is, the watermark would be downsize to fit that percentage.

## **EXIF Tags**

The app supports two EXIF Tags, Author/Artist and Copyright tags. Leave the fields empty if you do not want to overwrite the original tags.



# Hot Folder Automator



The Hot Folder Automator is a module which would check for images in the Hot Folder, process them based on the Preferences used and save them to the Hot Folder's Save In Folder. It can work in the background as long as the app is active either in the foreground or minimized in the background.

You would not need to load the files to the main module to use it.

This however does not work with the JPEG Lossless Rotation or the independent Batch Filename Changer.

It will only check the Hot Folder exclusively and would not work with the Sub Folders.

## How It Works

When you click the Start Automator, the automator will check for any supported images in the Hot Folder.

Once they are found, the images will be processed based on the Settings used under Preferences. Once they are processed, they will be saved to the Save In Folder under the Hot Folder Automator.

Based on the After Processing settings, the original images will be either deleted or move to the Move In Folder.

To change settings in the Hot Folder Automator, you will need to Stop the Automator, make the necessary changes before starting it. Any changes in the Preferences after the Automator is started will be ignored.

As the Automator is an independent module, you can use the main File Listing to process a different set of files while leaving the automator in the background to check on the hot folder.

The Save In Folder will be used for the Automator and this is different from the Save In under Saving Settings which is used for the main module.

# Batch Filename Changer

When we first built CM Batch Photo Processor, it was to satisfy our basic photography needs after each photo shoot which involves resizing and renaming photos. Over the years, we find the need to rename many different types of files and thus this module is born.

Due to the Mac AppStore's Sandbox restriction, implementing the filename changing module on existing files was not a straightforward process. Under the sandbox restriction, only files in the sandbox area have unrestricted access. For it to work with external files (outside the sandbox) such as your files, you will need to use the Load Files, Load Folders or by dragging and dropping the files to the app. This will grant the necessary permission to those files. However, renaming files is somewhat akin to writing new files to the folder since the name is changed and the sandbox restriction would prevent the name change.

To allow the name change, when you start the filename changing process, the app would go through the folders and see which folders have not been granted write permissions and you get a popup requesting your permission to write to those folders. Basically these are the folders in which the files which you added to the filename changer's file listing are located. If you deny the write permissions, the files in those folders would not be renamed.

The sandbox restriction does not apply to the installer downloaded from our website.

## Loading Files to the List

The standard Load Files, Load Folders and Drag and Drop method of adding files are supported.

In additions to those, the Batch Filename Changer module supports Loading a CSV file and even saving it. The CSV or Comma Separated Values is a text-readable file which contains a spreadsheet like content which can be edited from TextEdit, Numbers, Excel or a third party app.

## CSV File Format

If you have a ready CSV file generated by another app, you can import it into Batch Filename Changer module using the Load CSV file.

The current format for the CSV file is

**original filename,new filename**  
**original filename,new filename**  
**original filename,new filename**

Keep the CSV file in the folder which contains the files you want to rename and the app would pick up the list from there.

The new filenames in the CSV would pick up the file extension of the original filename to ensure compatibility.

When loading the CSV file, the Batch Filename Changer would check if the file exist in the folder prior to importing into the file listing. When importing the CSV file, the Keep the New Filenames As They Are would be checked to ensure that new filename from the CSV files would not be overwritten by the Filename Format engine.

You can save a snapshot of the new filenames by doing a Save CSV File of the changes made. After which you can reload it if you need to undo the changes.

## Filename Change Procedure

Let's get to the two buttons, Preview New Filenames and Start on the toolbar which are crucial to the file naming process.

### PREVIEW NEW FILENAMES

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Batch Filename Changer can batch rename files in a matter of seconds and the changes are not reversible as such previewing the new filenames is an important process. Previewing filenames does not change the original filenames so you can tweak till you are happy.

If the Keep the New Filenames As They Are is checked and the Just Change the File Case is unchecked, you would not see any change to the new filenames. These options would ensure that what you change would not be overwritten.

However if the Filenames has been changed using the Start, you will not be able to preview any subsequent changes. Do reload the list with the new filenames to make further changes or previews.

### START

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Once you are satisfied with the settings, this button would start up the file naming engine. Once you click this, just sit back and let the renaming begin.

Batch Filename Changer is built with two processing threads to speed up the entire process and in most cases would complete the job within seconds.

Batch Filename Changer would retain the original File Creation and Modification Dates while changing filenames

## File Listing

The File Listing contains the list of the original, new filenames, Creation Date, Modification Date and EXIF Date. All columns can be sorted in the ascending or descending order by clicking the Column Header. You can drag and drop the files on the list to suit your order.

The New Filename columns is editable. Select the New Filename column of the file you want to change and click in it. When making the change in the individual filename, the **Keep the New Filenames As They Are** would be checked. Do not worry about the file extensions as it would use the file extension of the original filenames.

The Creation Date, Modification Date and EXIF Date are displayed in the SQL Date Format, ie YYYYMMDDHHNNSS.

YYYY - 4 Digit Year

MM - 2 Digit Month

DD - 2 Digit Day

HH - 2 Digit Hour

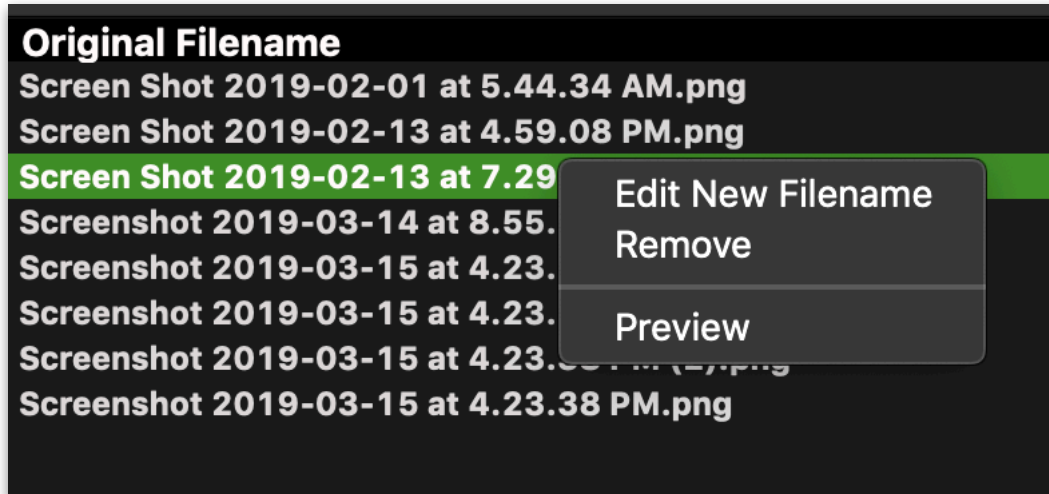
NN - 2 Digit Minute

SS - 2 Digit Second

This format is selected as it provides the universal date format which is easy to sort.

## CONTEXTUAL MENU

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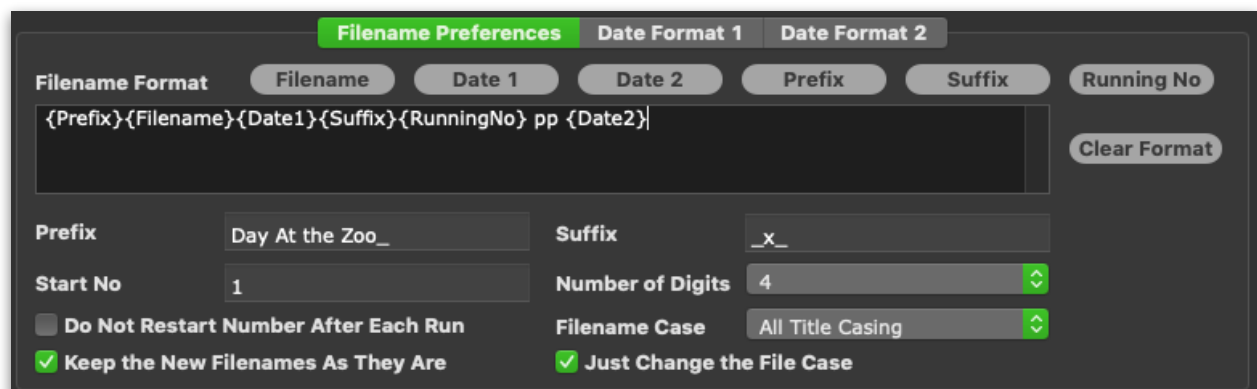
Select the Original Filename, you can bring up the contextual menu which gives you the option to Edit New Filename, Remove file from the list or preview it.

Edit New Filename would cause the New Filename column to be editable.

Remove would remove the filename from the list but would not delete the file from the folder.

Preview would bring up the Quick Look Preview Window. Close the Preview Window before selecting the next file.

## Filename Preferences



The Filename Preferences sets up how the new filename would look like.

On the top of which, we have the filename editor which lets you set up the Filename Format. In Batch Filename Changer, we use macro tags which are tags in curly braces { } which would be substituted to the actual data. You can also type them manually or use the provided buttons to ensure the tags are properly formatted.

## SUPPORTED TAGS

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Name	Tags	
Filename	{Filename}	The original filename without the File Extension
Date 1	{Date1}	Insert the Date Format 1's Date Format
Date 2	{Date2}	Insert the Date Format 2's Date Format
Prefix	{Prefix}	Insert the Prefix Static Text
Suffix	{Suffix}	Insert the Suffix Static Text
Running No	{RunningNo}	Insert the Running No using the Start No and Number of Digits settings

## RUNNING NO

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The Running Number not just supports adding a running number starting with the Start No's as the first number for the first file and increment from there.

The Number of Digits helps pad the running number so that they can be sorted as they should.

For example, if the Number of Digits is set to 4 and the Start No set to 1, the running number sequence would be 0001, 0002, 0003, 0004 and so on. Setting the Number of Digits to 5 will yield the same sequence as 00001, 00002, 00003 and 00004.



If the Number of Digits is set to 2 and the Start No set to 1, you get 01, 02, 03, 04 .... 10, 11 and so on.

## **FILENAME FORMAT EDITOR**

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The Filename Format Editor lets you set up the filename format. You can use the preset buttons to add the macro tags to the editor. In the editor, you can enter your own static texts together with the macros. Batch Filename Changer has a mechanism to prevent editing text within the curly braces. You can type in your static text outside of the {}.

With the Editor, you can enter as many macros in any order that you want. The Prefix and Suffix can be placed in any order.

To delete a macro tag, select the entire tag including the { } and click delete.

**If the filenames are the same for two or more files, they would be overwritten.**

The minimum requirement for the Filename Format would be either the Filename, a date or the running number. Anything to make the filename for the filenames unique.

If the filenames are the same for two or more files, they would be overwritten.

## **CLEAR FORMAT**

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The Clear Format button would clear the Filename Format Editor so you can set it up from fresh.

## **PREFIX AND SUFFIX**

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Although the prefix is a text placed before the words and suffix is the ones after but as you can determine the tags as you desire, it does not have the same meaning in the app. This gives you the option to enter up to you static texts in the filename. This provides a quick way of adding predetermined text instead of having to type them over and over again.

## **START NO**

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This is the first number used for the {RunningNo} macro tags for the first file on the list. The subsequent files would be increment by one.

## **NUMBER OF DIGITS**

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This sets up the length of the running number with padding. A Number of Digits of 5 would pad the running numbers to a maximum of 5 places. So a running number 100 would be padded to 00100.

However if the numbers are longer than the set Number of Digits, no padding would be used.

## **DO NOT RESTART NUMBER AFTER EACH RUN**

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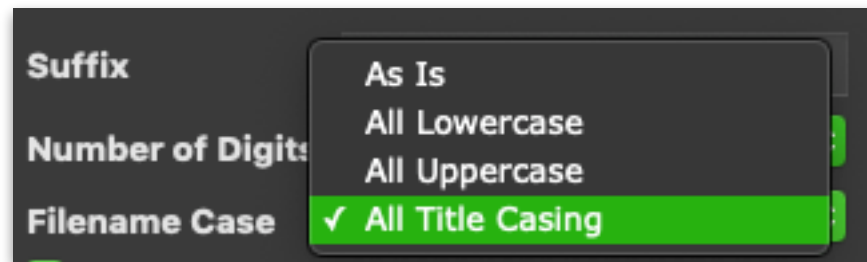
When this option is unchecked, the Start No would remain as the same as you have entered.

If however, this is checked, the Start No would increment after each run to the next number.

For example, if the initial Start No is 1 and say you have a list of 50 files, after the 50 files have been renamed, the Start No would change to 51 for the next run if this option is checked. Otherwise it will remain as 1.

## FILENAME CASE

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You can use the Batch Filename Changer to change the case of your filenames.

There are several options available which includes

As Is	This keeps the filenames as it is
All Lowercase	This will change the filenames to all lowercase
All Uppercase	This will change the filenames to all UPPERCASE
All Title Casing	This will use Title Casing which would change all the first letter in the phrase to upper case and the rest to lower case.

This can be useful if the files are being used on a case-sensitive Operating System or to make it easier to read.

## KEEP THE NEW FILENAMES AS THEY ARE

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By default when this option is unchecked, the filename changing engine will use the Filename Format to determine the new filename.

However, we understand that you might want to fine-tune the filenames for each file or via importing of the CSV files. When the Load CSV File is

used, this option would automatically be checked. You can uncheck it if you want to do the built-in engine.

Checking this option will use the New Filename as they appear.

## **JUST CHANGE THE FILE CASE**

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This option would be enabled when the Keep the New Filenames As They Are is checked. When this is checked, the new filenames which you entered would be change the case based on the Filename Case option but otherwise the Filename Format option would not be used.

This is useful if you just want to change the file case of the filenames.

**Although the app does not prevent any characters to be used, it is however best to avoid the following characters to ensure compatibility with the different Operating System**

**/ \ ? % \* : | " < > ' &**

## Date Format

The screenshot shows the 'Date Format' editor window. At the top, there are three tabs: 'Filename Preferences', 'Date Format 1' (which is highlighted in green), and 'Date Format 2'. Below the tabs, the 'Date Format' label is followed by a text input field containing the macro string '{YYYY}{MM}{DD}{HH}{NN}{SS}' and a green dropdown arrow. Below this, there are two rows of buttons. The first row contains 'Long Year', 'Short Year', 'Month', 'Day', 'Space', and 'Clear Format'. The second row contains 'Hour', 'Minutes', 'Seconds', ':', '-', and '\_'. Below these buttons is a large text area containing the same macro string '{YYYY}{MM}{DD}{HH}{NN}{SS}'. At the bottom, the 'Date to Use' label is followed by a dropdown menu showing 'Creation Date' and a green dropdown arrow.

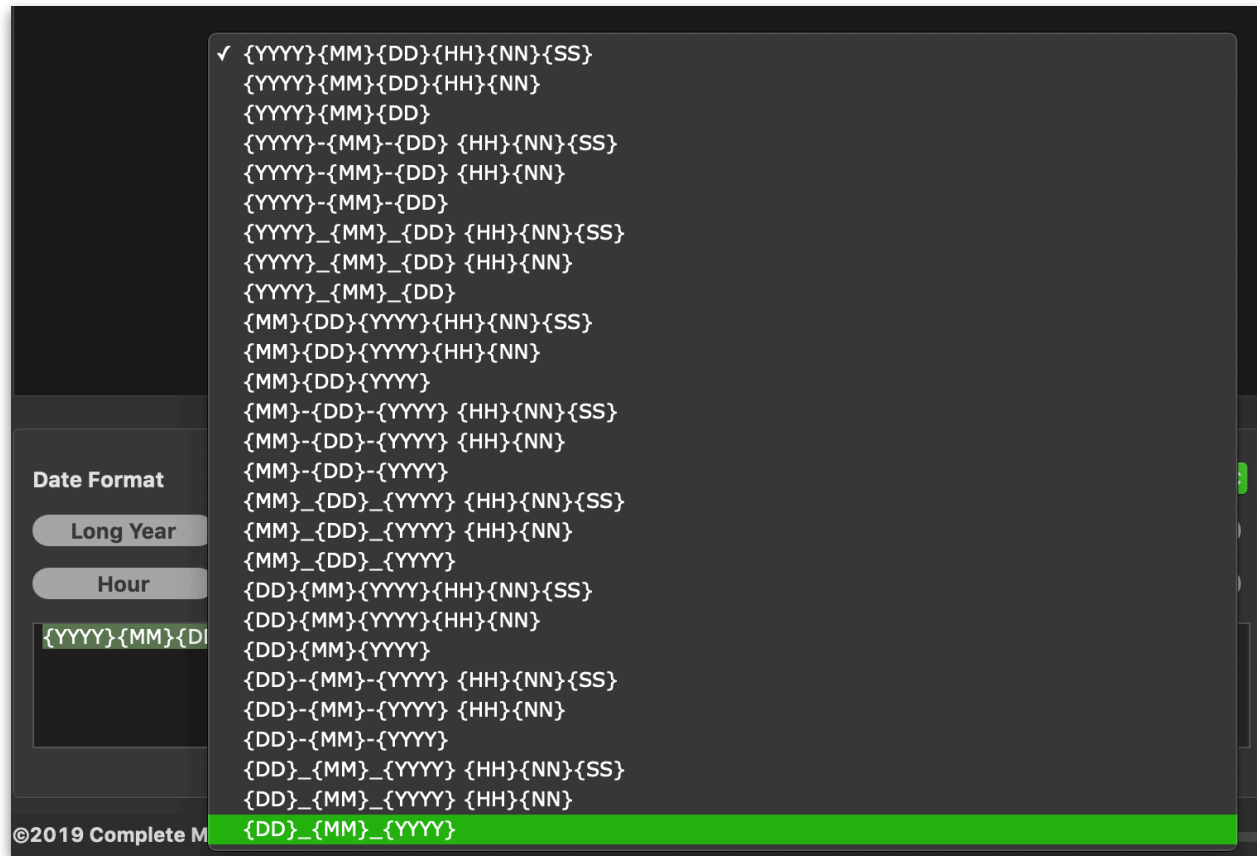
Batch Filename Changer provides two date macros {Date1} and {Date2} to be used in the filename. This way you can set up two different formats.

The Date used can be either Creation Date, Modification Date or EXIF Date. Use the Date to Use to switch between the two.

As with the Filename Format, you can use the Date Format Editor and Quick Macro buttons.

For the Date Format, we included the commonly used Date Formats which are commonly used. You can enter use a preset Date Format or build the format yourself.

## DATE FORMAT



Included are several preset date options which you can use or use as the starting point to building the date format.

Name	Tags	
Long Year	{YYYY}	This will use a 4 digit year eg 2019
Short Year	{YY}	Short Year would use the 2 digit year eg 19
Month	{MM}	This is the numeric month which is padded to 2 digits. For example, July would be 07
Day	{DD}	The numeric day is also padded to 2 digits
Hour	{HH}	The Hour in the 24 Hour format
Minutes	{NN}	As {MM} represents Month, we are using {NN} for file minutes
Seconds	{SS}	The 2 digit seconds

## CM Batch Photo Processor

:	:	Add a colon :
-	-	Adds a dash -
_	_	Adds a underscore _
Space		Adds a spacing to the Date Format editor

### DATE FORMAT EDITOR

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As with the File Format Editor, the Date Format Editor lets you set up the format of the dates which would be used.

### DATE TO USE

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Batch Filename Changer can use either the Creation Date, the Modification Date or EXIF Date (where applicable) of the file.

The EXIF Date is usually embedded into the photo or video files by the digital camera at the time the photo is taken and it is not affected when the photo is modified, copied or moved to a new location. Our CM Batch Photo Processor app supports changing and adding the EXIF Date if it is embedded wrongly by the digital camera.

When you set the Date to Use as EXIF Date and it is not found, the File Creation Date would be used instead.

## **Basic Steps to using the Batch Filename Changer**

Batch Filename Changer is made with flexibility and simplistically in mind.

### **STEP 1 LOADING FILES**

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The First Step would be to get the files you want to change to the application. To do this, you can use the Load Files, Load Folders, Drag n Drop or use the Load CSV File method to import the files.

### **STEP 2 SET UP THE FILENAME FORMAT**

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Under the Filename Preferences, you can use the Filename Format Editor with the macro buttons to set up the filename formats.

If you are using Dates within the Filename, you can set up the Date Format

### **STEP 3 PREVIEW FILENAMES**

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To get a preview of how the filenames would look like, click the Preview New Filenames to check how the new filenames would look like.

You can change the filename formats until you are satisfied. The preview does not change the actual files so you would not need to worry about using the preview.

### **STEP 4 CHANGE FILENAMES**

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Once you are happy with the previews, click the Start button. This will begin the filename changing process.

You may be prompted to grant permission to write in the folder of your files. This is to enable that the app can rename the files. If the write permission is denied, the files in those folders would be skipped.



# Contact Information

Thank you for choosing CM Batch Photo Processor and if you require any assistance either in using the application, found a bug, have a suggestion to improving the application or need assistance in applying or buying the app, feel free to contact us at [support@completemagic.com](mailto:support@completemagic.com) and we will be happy to help. Do give us 24 hours to reply, we will however try our best to come out with a solution within a few hours.