

» RenExif v2.1.1 «

'RenExif' is a simple file rename utility for photo, AVI-movie and wave files containing Exif info resp. the appropriate chunks of the RIFF (i.e. .AVI or .WAV files) files. Files are renamed by usually padding the selected information before the original file name, but this behavior can be changed.

The tool can be executed in online (GUI) or batch mode. The GUI allows to select parameter interactively, while the batch mode allows to execute in an automatic background process, e.g. triggered by a DOS-Batch or VBScript.

Execution (batch):

```
RenExif <file path> [<file path> [...]] [/F:"<format>"]  
[/O] [/T] [/D] [/Nn] [/Y] [/C] [/R] [/S] [/?]
```

where <file path> is the full path and file – with or without wild cards – to the file(s) to rename. In batch mode more than one <file path> parameter could be used, but each parameter is used as an individual call. <file path> must not contain blanks!

/F:"<format>" (optional) specifies the format to use to rename of the original filename. If /D is listed the original filename part will be removed. Please play with the GUI client to get a feeling of the available format options! Constant text must be placed in single quotes ('). If not specified, this parameter defaults to /F: "yyyy-mm-dd-hh-nn-ss_".

Any of the following characters can be used for renaming:

- yy,yyyy - the year formats (short, long)
- m,mm,mmm,mmmm - the month formats (short, long, text)
- d,dd,ddd,dddd - the day formats (short, long, text)
- dddd,dddddd - full date formats (short, long)
- h,hh - the hour formats (short, long)
- n,nn - the minute formats (short, long)
- s,ss - the second formats (short, long)
- t,tt - full time formats (short, long)
- c - system internal format (OS)
- am/pm - use 12 hour-format with 'am' or 'pm'
- a/p - use 12 hour-format with 'a' or 'p'
- Model - represents the camera model, e.g. returns "PENTAX Optio330RS". For value translation see below.
- Size - represents the resolution size, e.g. returns "2048x1536". The returned size is the Exif internal information and must not necessary match the real image size.
- Orient - returns an indicator of the picture orientation: "P" for vertical/portrait and "L" for horizontal/landscape. For value translation see below. The orientation indicator is linked to the X- and Y-sizes of the picture within the Exif data. If both values are equal "P" (vertical/portrait) will be returned.
- all other text characters will be left unchanged. Text in quotes is never changed, *except the predefined parameters* 'Model', 'Size' and 'Orient', as these are interpreted as parameters. Hence these keywords

cannot be part of a constant string. There is no escape character build in.

If the filename should not be modified at all, e.g. when used in combination with the /T parameter, specify an empty string with two single quotes, like this /F: " ' ' ". Warning: if no /F: parameter is specified, the above default will be used.

Ensure to only use valid filename characters, i.e. do not use reserved OS characters to format the new filename. Some of these reserved characters are: colon(:), slash(/), backslash(\), less/bigger than(<>), pipe(|), asterisk(*), question mark(?), double quotes(").

If the format string contains a backslash (\) or colon (:), **RenExif** assumes that the format string represents a qualified path name and tries to *move* the file to another (or the same) drive or path. This way it is possible to move sources to a file path made of Exif information, e.g. 'C:\Photos\2003.08.26\DSCN1234.jpg'.

By using the /C parameter the file will be copied instead of moved.

/O	(optional) use the Exif 'OriginalDateTime' field instead of the Exif 'DateTime' field. If 'OriginalDateTime' is not available within the file, 'DateTime' will be used instead and vice versa. However, in most cases both dates will be equal anyway.
/T	(optional) resets the file's creation and last modified time stamps. This parameter will not rename the file, but set the file's time stamp. <u>Important:</u> the file must <u>not</u> be write protected!
/D	(optional) removes the original filename part. <u>Warning:</u> this might result in file name conflicts, as the filenames may not be unique any more. It is recommended to use this parameter in conjunction with /Nn. When used in conjunction with /Y existing files will be overwritten!
/Nn	(optional) pads a running file number, starting with 1, at the end of the renamed file. n defines the length of the number to pad, e.g. /N4 will use four digit numbers, /N2 will use two digit numbers. The default for n is 3, i.e. /N equals /N3 and will create three digit numbers.
/Y	(optional) automatically overwrites existing files. This parameter might be used in conjunction with /D and /Nn. If /Y is not specified and a file with the same name exists, a single number or alpha character will be padded to the filename and the existing file is not overwritten. Only these 36 single characters are padded: 1 to 9 and A to Z. If there are more duplicates further renaming will be skipped.
/C	(optional) will not rename, but copy the file. The original file remains unchanged.
/R	(optional) will cycle through the sub-directories below the specified path.
/S	(optional) displays the current processed file at a console window. The window will only display file renaming. If only the file's last modified time stamp will be changed, then this window remains empty.

/ ? (optional) displays a short version info text (also -?, /H, -H, -VERSION, /VERSION, --VERSION).

The order of the parameters is free. Each parameter must be separated by one or more spaces. – Files containing the appropriate information will be renamed as described above. To fully rename a file use the /D parameter so the original filename part gets removed.

If the wanted information is not in the file, default values will be returned, i.e. the word “Model” and “Size” for the Model and Size parameters and the unchanged date/time format string for the time stamps (i.e. "yyymmdd-hhnnss_", if no time stamp was found). The file content (the image, movie or sound) itself is never modified!

Menus:

The menus basically represent the functions of the main screen, except of the following:

Toggle Progress Button

This menu allows to control the behavior of the Progress window in GUI mode. The batch mode is controlled by the /S parameter.

- Show Always always displays the progress window,
- Hide Always never displays the progress window,
- Auto show only if needed (default).

Translations...

The ‘Translations’ allows to define alternate values for camera models and orientation. I.e. the model value ‘PENTAX Optio330RS’ could be converted to ‘330RS’ or any other meaningful value. The orientations default to ‘L’ for landscape and ‘P’ for portrait, but could be changed as well.

These translations are valid for both, batch and GUI modes, but can be changed in GUI mode only!

Execution (GUI client):

Execution of the program *without* any parameters starts the GUI (graphical user interface) client!

‘RenExif’ is Freeware. Sorry, no warranties at all!

The newest RenExif program version is available at

<http://www.digitalfotonetz.de/RenExif.html>.

RenExif Batch Example 1

My camera is linked via USB to my computer. I've installed the camera as drive K:; the photos are on my camera's directory 'K:\DCIM\100PENTX'. By default I'd like to have all my new photos in directory 'E:\Photos\New' for initial viewing and further processing.

After plugging the camera to my computer, I start a small batch file from my desktop, called "RenExif.cmd", looking like this:

```
1  CD /D E:\Photos\New
2  MOVE K:\DCIM\100PENTX\*. *

3  RenExif.exe /F:"yymmdd_hhnnss_" IMG*.JPG IMG*.AVI /O /S
4  EXIT
```

The first line branches to directory 'E:\Photos\New'. Line two moves all photos from the camera drive to 'E:\Photos\New' and removes them from the camera, so that the camera's memory card gets cleared. The third line then starts **RenExif** and renames all new files with my preferred default parameters ("IMG*.JPG IMG*.AVI" ensures, that only new, not renamed files get processed, just in case). Finally the fourth line closes the batch.

You may want to modify that little script to your needs. Enjoy!

RenExif Batch Example 2

Since V1.7 automatic moving is build in. The above batch could be realized in just two lines now (actually the second line just closes the batch file):

```
1  RenExif.exe /F:"'E:\Photos\New\'yymmdd_hhnnss_"
    K:\DCIM\100PENTX\IMG*.JPG K:\DCIM\100PENTX\IMG*.AVI /O /S
2  EXIT
```

RenExif Batch Example 3

One common format is a date format like 2003-08-26_10h17m23s. The format string is yyyy-mm-dd_hh'h'nn'm'ss's':

```
1  RenExif.exe /F:"yyyy-mm-dd_hh'h'nn'm'ss's'" E:\Photos\New\*.jpg /S
```

RenExif Batch Example 4

This sample modifies only the file time stamps to the Exif date. The empty format string ensures, that the filename itself is not changed. The /S parameter could be left off as it would not display any information, because no files get renamed at all:

```
1  RenExif.exe /F:"'" E:\Photos\New\*.raw /T
```

RenExif Batch Example 5

The following sample copies files from the New directory into (new) directories on the D:-drive building a path made of Exif model and date. The files themselves are renamed to the photo's size and a running number (strange example, isn't it?).:

```
1  RenExif.exe /F:"'D:\Model\'yymmdd'\PSize'" E:\Photos\New\*.peg /C /N4
    /D /R
```

RenExif Batch Example 6

For this sample all .AVI movies are copied into the \Archive directory (on the same drive). The files

are renamed to the movie's creation time stamp, while the original files remains unchanged in the source directory:

```
1 RenExif.exe /F:"'\Archive\'yymmdd_mmmnss_" D:\Movies\*.avi /C /D
```

Some Technical Information:

This application had been tested with .JPEG, .PEF and .RAW of different camera models and on different Windows version. The RIFF (.AVI and .WAV files) engine supports different time stamp formats (see below) and should work with RIFF files of many other camera models as well. Just give it a try.

In JPEG files the Exif tags DateTimeOriginal (9003,h), DateTime (0132,h), Model (0110,h), PixelXDimension (A002,h) and PixelYDimension (A003,h) are used.

In RIFF files the 'avih', 'ISFT', 'IDIT', 'ICRD', 'etim' and 'emdl' chunks are used.

These tags must be within the first 80 KB of the file. If not, the tags can't be found.

Destall

RenExif stores its information in the Windows Registry key "HKEY_CURRENT_USER\Software\RenExif". To destall simply delete `RenExif.exe` from the file system and remove the above registry key.

Known Problems:

- Some camera models, e.g. some Kodak models, use a different binary number format. As a result the 'Size' parameter does not work correct.
- The RIFF time stamp chunk does not have a clearly defined format. **RenExif** currently supports the following formats:
 - `yyyy/mm/dd hh:nn:ss` (e.g. 2003/08/26 07:03:00 ("Exif Time stamp"))
 - `yyyy/mm/dd/ hh:nn` (e.g. 2003/08/26/ 07:03)
 - `ddd mmm dd hh:nn:ss yyyy` (e.g. Tue Aug 26 07:03:00 2003)
 - `yyyy.mm/dd hh:mm` (e.g. 2003.08/26 07:03AM)
 - other formats may follow as required in newer versions. Please send me an example file, so I can build it in.

RenExif History

Changes to Version 2.1.1 (15.06.2008):

- fixed bug in handling local time zone settings with /T

Changes to Version 2.1 (27.04.2008):

- /T parameter modified to set both the creation and last modified date

Changes to Version 2.0 (28.01.2007):

- support for Exit TIFF Header at position zero, e.g. some RAW files
- 'Orient' keyword added
- main menu added
- screen width widened
- Translations function added for 'Model'- and 'Orient'-keywords
- default time stamp format changed to "yyyy-mm-dd-hh-nn-ss_"
- fixed format bug in 'Model' parameter
- /? Parameter for a simple standard version info with hint to this document added
- changed file path selection button
- buttons and shortcuts changed
- fixed some minor bugs
- this documentation now as .PDF-file

Changes to Version 1.8.2 (08.09.2006):

- included /R parameter

Changes to Version 1.8.1 (01.01.2006):

- fixed bug with /Nn parameter

Changes to Version 1.8 (19.10.2005):

- fixed bug with /C parameter processing the same file twice
- included history for formats and path' in GUI client
- included /S parameter
- included /Y parameter
- timing problem with very large files (usually .AVI) eliminated
- fixed some small bugs
- this documentation now as .RTF-file

Changes to Version 1.71 (05.06.2005):

- memory leak problem removed

Changes to Version 1.7 (15.05.2005):

- rename for directories enabled ('\' and ':'-characters)
- included /C parameter to allow copy instead of move
- included /Nn parameter for a running number
- little support for .WAV-files added

Changes to Version 1.6x (15.01.2005):

- included /T parameter to reset the file's last modified time stamp
- last used parameters are saved for next run (GUI only)
- support for additional .AVI-date formats (V1.6x)

Changes to Version 1.5x (02.01.2005):

- full rework of the internal Exif-Engine
- included /O parameter to select the Exif-fields "OriginalDateTime" resp. "DateTime"
- included 'Size'-parameter
- support for additional .AVI-date formats (V1.5x)
- fixed some small bugs

Changes to Version 1.4 (20.11.2002):

- included /D parameter to delete the original file name
- fixed Exif-Header detection to support the 330GS

Changes to Version 1.3 (25.09.2002):

- removed bug in processing loop (result was a double rename of the first file)
- error in initialize of 'Model'-rename
- fixed some small bugs

Changes to Version 1.2 (21.09.2002):

- included rename of .AVI-files (for video files of the Pentax Optio)
- fixed some small bugs

Initial Version 1.0 (at some time in 2002)