

## darktable - Bug #8594

### Exif data from samsung .srw is not written to jpeg

02/04/2012 06:47 PM - tetaberta -

|                          |                 |                               |           |
|--------------------------|-----------------|-------------------------------|-----------|
| <b>Status:</b>           | Closed: invalid | <b>Start date:</b>            |           |
| <b>Priority:</b>         | Low             | <b>Due date:</b>              |           |
| <b>Assignee:</b>         |                 | <b>% Done:</b>                | 0%        |
| <b>Category:</b>         | General         | <b>Estimated time:</b>        | 0.00 hour |
| <b>Target version:</b>   | ---             | <b>bitness:</b>               | 64-bit    |
| <b>Affected Version:</b> | 1.0.4           | <b>hardware architecture:</b> | amd64/x86 |
| <b>System:</b>           |                 |                               |           |

#### Description

The exif data from Samsung EX1 \*.srw raw files are loaded by darktable and displayed in the GUI. They are not written to the output jpegs. Problem is present in stable 0.9.3 and in git 0.9.3+883~g96e9e3e. Tested on ubuntu 11.10. Darktable works fine with nikon nef files. A hint might be, that exiftool gives warning when reading the raw file:

```
Warning : [minor] Overlapping [[MakerNotes]] values
```

See exiftool output for the input file:

```
$ exiftool -a -u -g1 ../20120106-143851.srw
---- [[ExifTool]] ----
[[ExifTool]] Version Number : 8.60
Warning : [minor] Overlapping [[MakerNotes]] values
---- System ----
File Name : 20120106-143851.srw
Directory : ..
File Size : 21 MB
File Modification Date/Time : 2012:01:06 14:38:54+01:00
File Permissions : rw-----
---- File ----
File Type : SRW
MIME Type : image/x-samsung-srw
Exif Byte Order : Big-endian (Motorola, MM)
---- IFD0 ----
Make : SAMSUNG
Camera Model Name : EX1
Orientation : Horizontal (normal)
Modify Date : 2012:01:06 14:38:51
---- [[ExifIFD]] ----
Exposure Time : 1/90
F Number : 3.4
Exposure Program : Program AE
ISO : 100
Exif Version : 0221
Date/Time Original : 2012:01:06 14:38:51
Exposure Compensation : -0.7
Metering Mode : Multi-segment
Light Source : Unknown
Flash : No Flash
Focal Length : 0.0 mm
Color Space : sRGB
Exif Image Width : 3648
Exif Image Height : 2736
Exposure Mode : Auto bracket
White Balance : Auto
Digital Zoom Ratio : 1
Focal Length In 35mm Format : 24 mm
```



```

Resolution Unit          : inches
Preview Image Start     : 18670
Preview Image Length    : 145532
Y Cb Cr Positioning    : Co-sited
---- [[SubIFD]] ----
Subfile Type            : Full-resolution Image
X Resolution            : 72
Y Resolution            : 72
Resolution Unit        : inches
Jpg From Raw Start     : 178856
Jpg From Raw Length    : 1789353
Y Cb Cr Positioning    : Co-sited
Subfile Type            : Full-resolution Image
X Resolution            : 72
Y Resolution            : 72
Resolution Unit        : inches
Thumbnail Offset       : 164326
Thumbnail Length       : 14286
Y Cb Cr Positioning    : Co-sited
---- [[SubIFD]]1 ----
Subfile Type            : Full-resolution Image
Image Width            : 3688
Image Height           : 2780
Bits Per Sample        : 14
Compression            : Packed RAW
Strip Offsets          : 1968209
Samples Per Pixel      : 3
Rows Per Strip         : 2780
Strip Byte Counts      : 20505280
CFA Repeat Pattern Dim : 2 2
CFA Pattern 2         : 0 1 1 2
---- Composite ----
Aperture                : 3.4
CFA Pattern             : [Red,Green][Green,Blue]
Image Size              : 3688x2780
Jpg From Raw           : (Binary data 1789353 bytes, use -b option to extract)
Lens ID                 : Built-in
Preview Image          : (Binary data 145532 bytes, use -b option to extract)
Shutter Speed          : 1/90
Thumbnail Image        : (Binary data 14286 bytes, use -b option to extract)
WB RGGGB Levels        : 9025 4224 4224 7342
Blue Balance           : 1.738163
Focal Length           : 0.0 mm
Light Value             : 10.0
Red Balance             : 2.1366

```

Here is the exiftool output for the produced jpeg:

```

$ exiftool -a -u -g1 img_0001_01.jpg
---- [[ExifTool]] ----
[[ExifTool]] Version Number      : 8.60
---- System ----
File Name                        : img_0001_01.jpg
Directory                        : .
File Size                        : 6.1 MB
File Modification Date/Time      : 2012:02:04 19:38:15+01:00
File Permissions                  : rw-rw-r--
---- File ----
File Type                         : JPEG
MIME Type                         : image/jpeg
Image Width                       : 3680
Image Height                      : 2756
Encoding Process                  : Baseline DCT, Huffman coding

```

```

Bits Per Sample          : 8
Color Components         : 3
Y Cb Cr Sub Sampling    : YCbCr4:4:4 (1 1)
---- JFIF ----
JFIF Version            : 1.01
Resolution Unit         : None
X Resolution            : 1
Y Resolution            : 1
---- XMP-x ----
XMP Toolkit             : XMP Core 4.4.0-Exiv2
---- XMP-xmp ----
Rating                  : 2
---- XMP-darktable ----
Xmp version             : 1
Raw params              : -16777216
Colorlabels             :
History modversion      :
History enabled         :
History operation       :
History params          :
Blendop params          :
---- XMP-dc ----
Subject                 :
---- XMP-lr ----
Hierarchical Subject    : darktable|format|srw
---- ICC-header ----
Profile CMM Type        : lcms
Profile Version         : 2.1.0
Profile Class           : Display Device Profile
Color Space Data        : RGB
Profile Connection Space : XYZ
Profile Date Time       : 2012:02:04 18:38:13
Profile File Signature  : acsp
Primary Platform        : Apple Computer Inc.
CMM Flags               : Not Embedded, Independent
Device Manufacturer     :
Device Model            :
Device Attributes       : Reflective, Glossy, Positive, Color
Rendering Intent        : Perceptual
Connection Space Illuminant : 0.9642 1 0.82491
Profile Creator         : lcms
Profile ID              : 0
---- ICC_Profile ----
Profile Description     : Darktable sRGB
Profile Copyright       : No copyright, use freely
Media White Point       : 0.9642 1 0.82491
Chromatic Adaptation   : 0.9554 -0.02315 0.06316 -0.02846 1.0101 0.02101 0.01228 -0.02045
1.3297
Red Matrix Column      : 0.43585 0.22238 0.01392
Blue Matrix Column     : 0.14302 0.06059 0.71384
Green Matrix Column    : 0.38533 0.71704 0.09714
Red Tone Reproduction Curve : (Binary data 32 bytes, use -b option to extract)
Green Tone Reproduction Curve : (Binary data 32 bytes, use -b option to extract)
Blue Tone Reproduction Curve : (Binary data 32 bytes, use -b option to extract)
Device Mfg Desc        : (dt internal)
Device Model Desc      : sRGB
---- ICC-chrm ----
Chromaticity Channels   : 3
Chromaticity Colorant   : Unknown (0)
Chromaticity Channel 1 : 0.64 0.33
Chromaticity Channel 2 : 0.3 0.60001
Chromaticity Channel 3 : 0.14999 0.06
---- Composite ----
Image Size              : 3680x2756

```

## History

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### #1 - 02/04/2012 06:56 PM - tetaberta -

example problematic file can be downloaded from <http://www.roucka.eu/pub/20120106-143851.srw>

### #2 - 02/19/2012 01:43 PM - tetaberta -

Unfortunately, I do not know the Internals of darktable to fix this issue myself. So I have written a simple script to copy the exif info from raw files to jpegs after export assuming the base names are the same. I put it here - might be useful if someone else is suffering by this issue. Usage: scrip\_name.sh raw\_directory jpeg\_directory. Works for me, but not tested thoroughly.

```
#!/bin/bash

sourcedir=$1
destdir=$2
rawext="[Ss][Rr][Ww]"
for i in $destdir/*.jpg;
do
    if [ ! "$(exiftool -s -ExposureTime $i)" ]; then
        filename=${i##*/}
        basename=${filename%.*}
        sourcename=$(ls $sourcedir/$basename.$rawext 2> /dev/null | head -1)
        if [ "$(exiftool -s -ExposureTime $sourcename 2> /dev/null)" ]; then
            echo "$i : exif found in $sourcename"
            exiftool -tagsfromfile $sourcename -exif:all $i
        else
            echo "$i : exif not found"
        fi
    fi
done
```

### #3 - 08/08/2012 09:06 PM - Stepan Roucka

- % Done changed from 0 to 100

- Status changed from New to Fixed

This issue is fixed in darktable 1.0.5

### #4 - 08/09/2012 09:53 PM - Pascal de Bruijn

- % Done changed from 100 to 0

- Affected Version set to 1.0.4

- Status changed from Fixed to Closed: invalid

Actually this problem wasn't really fixed in 1.0.5, as this wasn't entirely a Darktable problem to begin with.

This issue was resolved shortly after Exiv2 0.23 was released:

<http://dev.exiv2.org/issues/820>

Which means the latest version of Exiv2 (0.23) still has this problem. You can however apply this tiny patch and rebuild Exiv2:

<http://dev.exiv2.org/projects/exiv2/repository/revisions/2743/diff/trunk/src/exif.cpp>

For Ubuntu Precise (12.04) users, I patched up the Exiv2 packages on my Darktable-Release-Plus PPA since the release of Darktable 1.0.5 (and even longer back on the Darktable-Unstable PPA).