

Exiv2 - Bug #955

Strange issue with Exif.CanonSi.Sequence

23 Apr 2014 09:47 - Roman Lebedev

Status:	Closed	Start date:	23 Apr 2014																																										
Priority:	Normal	Due date:																																											
Assignee:	Robin Mills	% Done:	100%																																										
Category:	metadata	Estimated time:	0.00 hour																																										
Target version:	0.25																																												
Description																																													
According to Canon MakerNote Tags , tag Exif.CanonSi.Sequence is supposed to sequence number of images, taken in a continuous burst. So i have taken 7 images (.CR2, taken on Canon EOS 550D with continuous shooting). But neither exiv2 nor exiftool does not show correct number in that tag:																																													
<pre>\$ exiv2 -v -u -pa *.CR2 grep -i seq</pre>																																													
<table><tbody><tr><td>IMG_9589.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9590.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9591.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9592.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9593.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9594.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr><tr><td>IMG_9595.CR2</td><td>Exif.CanonSi.Sequence</td><td>Short</td><td>1</td><td>0</td><td>num</td></tr></tbody></table>				IMG_9589.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9590.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9591.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9592.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9593.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9594.CR2	Exif.CanonSi.Sequence	Short	1	0	num	IMG_9595.CR2	Exif.CanonSi.Sequence	Short	1	0	num
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Same result on shots taken with Canon EOS 5D Mark III.																																													
Am i doing something wrong? Is that field set incorrectly in the first place(i mean in camera)? Is this a bug in exiv2? (i have already spent ~6 hours trying to debug this, so i am lost...)																																													
Sample files: https://www.dropbox.com/sh/7ac7h754dvm1w4n/vi0f4UPNQp																																													

History

#1 - 07 May 2014 10:33 - Phil Harvey

This doesn't look like an Exiv2 problem. It seems the 5DmkIII doesn't write this information. Offhand, I can't say what models this is valid for, but apparently not for the 5DmkIII.

- Phil

#2 - 12 Apr 2015 20:01 - Robin Mills

- Category set to metadata
- Status changed from New to Resolved
- Assignee set to Phil Harvey
- Target version set to 0.25

I'm going to mark this "Resolved" because of Phil's reply. The dropbox file is no longer available, so no further work is possible on this.

#3 - 12 Apr 2015 20:10 - Roman Lebedev

Right, here is the updated link: <https://www.dropbox.com/sh/w5fginww57ic4yl/AADP6OkXjF233gd9VmfbtYSaa?dl=0>
I must say that i will be negatively surprised if Canon actually does not store such information in raws...

#4 - 12 Apr 2015 21:07 - Robin Mills

Thanks, Roman. And thank you for providing those image so quickly.

This is interesting. Indeed the Sequence key is the same for consecutive images:

```
580 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa -g Sequence ~/Downloads/IMG_95*.CR2  
/Users/rmills/Downloads/IMG_9589.CR2 Exif.CanonSi.Sequence Short 1 0
```

```
/Users/rmills/Downloads/IMG_9590.CR2 Exif.CanonSi.Sequence Short 1 0
581 rmills@rmillsmbp:~/gnu/exiv2/trunk $
```

However there is timing information in the file that reveals the sequence.

```
585 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa ~/Downloads/IMG_9589.CR2 > 9589.txt
/Users/rmills/Downloads/IMG_9589.CR2: (No XMP data found in the file)
586 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa ~/Downloads/IMG_9590.CR2 > 9590.txt
/Users/rmills/Downloads/IMG_9590.CR2: (No XMP data found in the file)
587 rmills@rmillsmbp:~/gnu/exiv2/trunk $ diff 9589.txt 9590.txt
9c9
< Exif.Image.StripByteCounts Long 1 420743
---
> Exif.Image.StripByteCounts Long 1 424433
13c13
< Exif.Image.DateTime Ascii 20 2014:04:20 21:16:02
---
> Exif.Image.DateTime Ascii 20 2014:04:20 21:16:03
22,23c22,23
< Exif.Photo.DateTimeOriginal Ascii 20 2014:04:20 21:16:02
< Exif.Photo.DateTimeDigitized Ascii 20 2014:04:20 21:16:02
---
> Exif.Photo.DateTimeOriginal Ascii 20 2014:04:20 21:16:03
> Exif.Photo.DateTimeDigitized Ascii 20 2014:04:20 21:16:03
70c70
< Exif.CanonSi.MeasuredEV Short 1 1.38
---
> Exif.CanonSi.MeasuredEV Short 1 1.25
80c80
< Exif.CanonSi.MeasuredEV2 Short 1 1.38
---
> Exif.CanonSi.MeasuredEV2 Short 1 1.12
131,133c131,133
< Exif.Photo.SubSecTime Ascii 3 96
< Exif.Photo.SubSecTimeOriginal Ascii 3 96
< Exif.Photo.SubSecTimeDigitized Ascii 3 96
---
> Exif.Photo.SubSecTime Ascii 3 27
> Exif.Photo.SubSecTimeOriginal Ascii 3 27
> Exif.Photo.SubSecTimeDigitized Ascii 3 27
149c149
< Exif.Thumbnail.JPEGInterchangeFormatLength Long 1 970
---
> Exif.Thumbnail.JPEGInterchangeFormatLength Long 1 972
155c155
< Exif.Image2.StripOffsets Long 1 468152
---
> Exif.Image2.StripOffsets Long 1 471844
161,162c161,162
< Exif.Image3.StripOffsets Long 1 2204856
< Exif.Image3.StripByteCounts Long 1 16406402
---
> Exif.Image3.StripOffsets Long 1 2208548
> Exif.Image3.StripByteCounts Long 1 16408041
588 rmills@rmillsmbp:~/gnu/exiv2/trunk $
```

It seems that the SubSecTime shows 3/27 and 3/96 which are 0.111 and 0.031. So the photos appear to be have been taken about 0.08 seconds apart.

Unless you can persuade me otherwise, I want to say "Not a bug". The Sequence key may be intended for this purpose, I can't see any evidence that it's been implemented on this model. If we're able to find images from a different model in which Sequence is being set, that would prove that Canon did not implement Sequence for this model.

#5 - 13 Apr 2015 07:17 - Robin Mills

- Assignee changed from Phil Harvey to Robin Mills

#6 - 08 May 2015 16:26 - Robin Mills

- % Done changed from 0 to 100

#7 - 21 Jun 2015 16:41 - Andreas Huggel

- Status changed from Resolved to Closed