

Exiv2 - Bug #876

New lens: Canon EF 35mm f/2 IS USM

11 Jan 2013 09:23 - markus kanet

Status:	Closed	Start date:	11 Jan 2013
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	0%
Category:	metadata	Estimated time:	0.00 hour
Target version:	0.24		
Description			
There is a new Canon lens 35mm f/2 IS USM (Note: There is already an older 35mm f/2 lens without IS).			
Lens-ID: 505			
I added the following line to src/canonmn.cpp and lens is identified correct			
<pre>{ 505, "Canon EF 35mm f/2 IS USM" },</pre>			
#: exiv2 -Pkv IMG_2108.CR2 grep -i "lens"			
Exif.CanonCs.LensType 505 Canon EF 35mm f/2 IS USM			
Exif.CanonCs.Lens 35 35 1 35.0 mm			
Exif.Canon.LensModel EF35mm f/2 IS USMQeD EF35mm f/2 IS USMQeD			
Exif.Photo.LensSpecification 35/1 35/1 0/1 0/1 35/1 35/1 0/1 0/1			
Exif.Photo.LensModel EF35mm f/2 IS USM EF35mm f/2 IS USM			
Exif.Photo.LensSerialNumber 00000013e8 00000013e8			
Exif.Canon.LensModel shows some garbage after the modelname.			
Related issues:			
Related to Exiv2 - Patch # 839: Canon EOS M EF-M lenses		Closed	21 Aug 2012

Associated revisions

Revision 2963 - 12 Jan 2013 08:59 - Robin Mills

Issue: #876 and #877. Addition to Canon Maker Notes. Thanks to Markus for the fix.

Revision 2964 - 12 Jan 2013 10:58 - Robin Mills

Issue: #876. Garbage in Exif.Canon.LensModel. Thanks to Markus for reporting this and providing test data.

Revision 2965 - 12 Jan 2013 11:10 - Robin Mills

Issue: #876 and 877. Updated test suite. Thanks to Markus for the test file.

Revision 2966 - 12 Jan 2013 17:31 - Robin Mills

Issue: #876 Fix for Exiv.Canon.LensModel displaying garbage bytes.

Revision 2967 - 12 Jan 2013 17:57 - Robin Mills

Revision 3190 - 06 Oct 2013 07:04 - Andreas Huggel

#876: Reverted changes made with r2966, r2976 and r2973 and added a fix to only output characters up to the first \0 in ASCII values.

History

#1 - 11 Jan 2013 09:50 - Robin Mills

- Category set to metadata
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.24

Please see my comment in Issue#877.

Robin

#2 - 12 Jan 2013 18:02 - Robin Mills

I've updated the test suite to use the test file provided by Markus. Thank you Markus for providing this.

I'm unhappy about this fix. In an earlier submission, I thought I had this fixed by getting StringValueBase::read to respect the nul as a terminator. Indeed that passed test/bugfixes-test.sh and was submitted. However that fix broke test/conversion.sh and other tests as it prematurely terminated unicode strings.

There is a test in TiffReader::readTiffEntry() for tag Exif.Canon.LensModel and to respect nul. This fix doesn't scale as more instances of this behavior will require special handling.

#3 - 15 Jan 2013 19:48 - Robin Mills

- Status changed from Assigned to Resolved

#4 - 16 Feb 2013 18:24 - Robin Mills

I've revisited the subject of nul-terminated ascii strings in Canon MakeNotes.

Code was added to tiffvisitor.cpp in January (r2966) to give special treatment to Exif.Canon.LensModel. Although I suspect there are other tags with this behavior, I found no vidence using the files in <exiv2dir>/test/data. For example, the length every string in 01.jpg is correct:

```
653 rmills@rmills-imac:~/gnu/exiv2/exiv2.master/test/data $ exiv2 -pt 01.jpg | grep Ascii
Exif.Image.Make           Ascii    6 Canon
Exif.Image.Model          Ascii   12 Canon EOS M
Exif.Image.DateTime       Ascii   20 2012:06:29 14:48:14
Exif.Image.Artist         Ascii    1
Exif.Image.Copyright      Ascii    1
Exif.Photo.DateTimeOriginal Ascii   20 2012:06:29 14:48:14
Exif.Photo.DateTimeDigitized Ascii   20 2012:06:29 14:48:14
Exif.MakerNote.ByteOrder  Ascii    3 II
Exif.Canon.ImageType      Ascii   12 Canon EOS M
```

```
Exif.Canon.FirmwareVersion      Ascii  22  Firmware Version 5.2.3
Exif.Canon.OwnerName           Ascii  32
Exif.Canon.LensModel           Ascii  16  EF-M22mm f/2 STM
Exif.Canon.InternalSerialNumber Ascii   9  EA0002893
Exif.Photo.SubSecTime          Ascii   3  88
Exif.Photo.SubSecTimeOriginal   Ascii   3  88
Exif.Photo.SubSecTimeDigitized  Ascii   3  88
Exif.Iop.InteroperabilityIndex  Ascii   4  R98
Exif.Photo.CameraOwnerName      Ascii   1
Exif.Photo.BodySerialNumber     Ascii  13  001009900099
Exif.Photo.LensModel           Ascii  17  EF-M22mm f/2 STM
Exif.Photo.LensSerialNumber     Ascii  11  000000002d
654 rmills@rmills-imac:~/gnu/exiv2/exiv2.master/test/data $
```

I don't intend to spend further time on this matter (however I suspect it will resurface on another tag).

#5 - 24 Jul 2013 15:16 - Robin Mills

- *Status changed from Resolved to Closed*

Fixed in 0.24.

#6 - 06 Oct 2013 07:04 - Andreas Huggel

I've undone the changes in r2966 (and related in r2973 and r2976) and added a fix on the output side instead (exactly what you said in <http://dev.exiv2.org/issues/839#note-2>, Robin): We **read** the complete tag value from the image but when output to a stream is requested, only **write** up to the first \0 character. That's more generic and more inline with the general exiv2 philosophy as it ensures the tag value won't change - even if it contains \0 characters - unless explicitly requested.

#7 - 06 Oct 2013 08:55 - Robin Mills

Thanks for dealing with this, Andreas.