

Exiv2 - Feature #1128

New lens: TAMRON SP 70-200mm F/2.8 Di VC USD A009

10 Oct 2015 07:39 - David Ramonet

Status:	Closed	Start date:	10 Oct 2015
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	metadata	Estimated time:	3.00 hours
Target version:	0.26		
Description			
Hi!			
Would you add support for the following lens?			
<pre>\$ exiv2 -pt img_9068.jpg grep -ai lens</pre>			
Exif.CanonCs.LensType	Short	1	255
Exif.CanonCs.Lens	Short	3	70.0 - 200.0 mm
Exif.Canon.LensModel	Ascii	74	TAMRON SP 70-200mm F/2.8 Di VC USD A009
9◆UD			
Exif.Photo.LensSpecification	Rational	4	70/1 200/1 0/1 0/1
Exif.Photo.LensModel	Ascii	40	TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSerialNumber	Ascii	11	0000000000
manufacturer link: http://www.tamron-usa.com/lenses/prod/70200_vc_a009.php			
Best			

History

#1 - 10 Oct 2015 07:50 - Robin Mills

- Category set to metadata
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.26

It appears to there on the trunk already:

```
510 rmills@rmillssmbp:/Users/Shared/Parallels $ exiv2 --verbose --version --grep svn
exiv2 0.25 001900 (64 bit build)
svn=3980
511 rmills@rmillssmbp:/Users/Shared/Parallels $ exiv2 -pa -g Lens http://dev.exiv2.org/attachments/download/848/img_9068.jpg
Exif.CanonCs.LensType          Short      1 255
Exif.CanonCs.Lens              Short      3 70.0 - 200.0 mm
Exif.Canon.LensModel           Ascii     74 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSpecification    Rational   4 70/1 200/1 0/1 0/1
Exif.Photo.LensModel           Ascii     40 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSerialNumber     Ascii     11 0000000000
512 rmills@rmillssmbp:/Users/Shared/Parallels $
```

You appear to have some "crud" on Exif.Canon.LensModel. I'm not getting that on trunk:

```
515 rmills@rmillssmbp:/Users/Shared/Parallels $ exiv2 -pa -g Canon.LensModel http://dev.exiv2.org/attachments/download/848/img_9068.jpg
Exif.Canon.LensModel           Ascii     74 TAMRON SP 70-200mm F/2.8 Di VC USD A009
516 rmills@rmillssmbp:/Users/Shared/Parallels $ exiv2 -pa -g Canon.LensModel http://dev.exiv2.org/attachments/download/848/img_9068.jpg | od -a
0000000  E  x  i  f  .  C  a  n  o  n  .  L  e  n  s  M
0000020  o  d  e  l  s  p  s  p  s  p  s  p  s  p  s  p  s  p  s  p  s  p  s  p
0000040  s  p  s  p  s  p  s  p  s  p  s  p  s  p  s  p  A  s  c
0000060  i  i  s  p  s  p  s  p  s  p  s  p  7  4  s  p  s  p  T  A  M  R
```

```
0000100  O N sp S P sp 7 0 - 2 0 0 m m sp F
0000120  / 2 . 8 sp D i sp V C sp U S D sp A
0000140  0 0 9 nl
0000144
517 rmills@rmillsmbp:/Users/Shared/Parallels $
```

#2 - 10 Oct 2015 13:40 - Robin Mills

- Status changed from Assigned to Resolved
- % Done changed from 0 to 100
- Estimated time set to 1.00 h

I'm going to set the status to Resolved/100% as I don't see any further work is required on this matter.

#3 - 06 Dec 2015 21:08 - Robin Mills

- Status changed from Resolved to Closed

#4 - 27 Feb 2016 14:41 - Steve Fosdick

- File tamron.patch added

This issue has come up again in connection with darktable which uses exiv2. Compare the output from the Canon 70-200 which exiv2 does already recognise with the Tamron 70-200 which it does not.

Canon:

```
Exif.CanonCs.LensType      Short  1 Canon EF 70-200mm f/2.8L IS
Exif.CanonCs.Lens         Short  3 70.0 - 200.0 mm
Exif.Canon.LensModel      Ascii  74 EF70-200mm f/2.8L IS USM
Exif.Photo.LensSpecification Rational 4 70/1 200/1 0/1 0/1
Exif.Photo.LensModel      Ascii  25 EF70-200mm f/2.8L IS USM
Exif.Photo.LensSerialNumber Ascii  11 0000000000
```

Tamron:

```
Exif.CanonCs.LensType      Short  1 255
Exif.CanonCs.Lens         Short  3 70.0 - 200.0 mm
Exif.Canon.LensModel      Ascii  74 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSpecification Rational 4 70/1 200/1 0/1 0/1
Exif.Photo.LensModel      Ascii  40 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSerialNumber Ascii  11 0000000000
```

Note for the Canon exiv2 is mapping the Exif.CanonCs.LensType short value into a string whereas for the Tamron it is not. The attached patch fixes that. It is worth noting that ID 255 is subject to a ID clash with two other lenses:

```
"Sigma 24-105mm f/4 DG OS HSM | A"
"Sigma 180mm f/2.8 EX DG OS HSM APO Macro"
```

these all have distinct focal lengths so there should be no problem but if you have images for these other two lenses it would be worth running a test.

#5 - 27 Feb 2016 14:58 - Robin Mills

- Status changed from Closed to Assigned
- % Done changed from 100 to 60
- Estimated time changed from 1.00 h to 3.00 h

Steve

Thank You for the patch. It's very helpful to get a patch as I am rather overloaded with a home remodelling project at the moment. Do you have one (or more) test images which I can add to our test suite as a regression detector? Without a test image, I can only inspect your patch so I can't be certain that we've fixed this and of course I can't detect if the fix breaks in future.

Robin

#6 - 28 Feb 2016 09:18 - Igor Blanco

Hi Robin:

For the Tamron Darktable does not recognize the lens name, it just prints 255.
For the Sigma right now darktable does print the correct lens name, but doesn't choose it automatically when activating the lens correction module.

But I suppose this is a Darktable issue.

This is a CR2 file for the Tamron 70-200: https://www.dropbox.com/s/55jh1w7mkoc3ox2/20160117_0060.CR2?dl=0

This is a CR2 file for the SIGMA 24-105: https://www.dropbox.com/s/h4xw6thay4bcdbz/SIGMA_24_105_20150103_0484.CR2?dl=0

I give you a sample of each so that you can check that clashes are correctly managed. Sorry

#7 - 07 May 2016 14:03 - Robin Mills

- Status changed from Assigned to Resolved

- % Done changed from 60 to 100

I've added a new feature to #1034 to read the file ~/.exiv2. You can specify a lens names in that file to overwrite the defaults compiled into exiv2. The file ~/.exiv2 is in .INI format.

```
529 rmills@rmillsmbp:~/gnu/exiv2/ttt $ cat ~/.exiv2
[canon]
# 255=some weird lens
530 rmills@rmillsmbp:~/gnu/exiv2/ttt $ exiv2 -pa --grep lens/i ~/Downloads/S*.CR2
Exif.CanonCs.LensType          Short      1 Sigma 24-105mm f/4 DG OS HSM | A
Exif.CanonCs.Lens              Short      3 24.0 - 105.0 mm
Exif.Canon.LensModel           Ascii      74 24-105mm
Exif.Photo.LensSpecification    Rational   4 24/1 105/1 0/1 0/1
Exif.Photo.LensModel           Ascii      9 24-105mm
Exif.Photo.LensSerialNumber     Ascii     11 0000000000
531 rmills@rmillsmbp:~/gnu/exiv2/ttt $ exiv2 -pa --grep lens/i ~/Downloads/2016*.CR2
Exif.CanonCs.LensType          Short      1 255
Exif.CanonCs.Lens              Short      3 70.0 - 200.0 mm
Exif.Canon.LensModel           Ascii      74 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSpecification    Rational   4 70/1 200/1 0/1 0/1
Exif.Photo.LensModel           Ascii      40 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSerialNumber     Ascii     11 0000000000

532 rmills@rmillsmbp:~/gnu/exiv2/ttt $ cat ~/.exiv2
[canon]
255=some weird lens
533 rmills@rmillsmbp:~/gnu/exiv2/ttt $ exiv2 -pa --grep lens/i ~/Downloads/S*.CR2
Exif.CanonCs.LensType          Short      1 some weird lens
Exif.CanonCs.Lens              Short      3 24.0 - 105.0 mm
Exif.Canon.LensModel           Ascii      74 24-105mm
Exif.Photo.LensSpecification    Rational   4 24/1 105/1 0/1 0/1
Exif.Photo.LensModel           Ascii      9 24-105mm
Exif.Photo.LensSerialNumber     Ascii     11 0000000000
534 rmills@rmillsmbp:~/gnu/exiv2/ttt $ exiv2 -pa --grep lens/i ~/Downloads/2016*.CR2
Exif.CanonCs.LensType          Short      1 some weird lens
Exif.CanonCs.Lens              Short      3 70.0 - 200.0 mm
Exif.Canon.LensModel           Ascii      74 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSpecification    Rational   4 70/1 200/1 0/1 0/1
Exif.Photo.LensModel           Ascii      40 TAMRON SP 70-200mm F/2.8 Di VC USD A009
Exif.Photo.LensSerialNumber     Ascii     11 0000000000
535 rmills@rmillsmbp:~/gnu/exiv2/ttt $
```

I'm going to mark this 100% resolved. I'd appreciate this feature being tested and welcome your feedback. Currently it is only implemented for canon cameras. Other manufacturers will be added in May 2016.

#8 - 07 May 2016 18:59 - Robin Mills

- Status changed from Resolved to Closed

Files

img_9068.jpg	10.5 MB	10 Oct 2015	David Ramonet
tamron.patch	717 Bytes	27 Feb 2016	Steve Fosdick