

## Exiv2 - Feature #1252

### Detect Sigma 120-300 EX on Canon

13 Nov 2016 11:13 - Markus Durzinsky

<b>Status:</b>	Closed	<b>Start date:</b>	13 Nov 2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	lens	<b>Estimated time:</b>	1.00 hour
<b>Target version:</b>	0.26		
<b>Description</b>			
The list of Sigma lenses for Canon EOS is missing the Sigma 120-300mm f/2.8 EX APO DG OS HSM. It shares the same value 174 with the Sigma 150-500mm f/5-6.3 APO DG OS HSM and some other lenses. I cannot provide a manufacturer link, as the lens is discontinued by Sigma and replaced by the new Art series 120-300.  Attached are sample images of the two 174 lenses I own. They are both correctly detected with the provided patch. For the lens name, I used the same name scheme as in the Sigma 70-200mm f/2.8 EX DG APO OS HSM, which also shares the 174 value in canonmn.cpp.			

#### Associated revisions

##### Revision 4684 - 13 Nov 2016 11:51 - Robin Mills

#1252 Patch submitted. Thank You to Markus for the patch and test files. Test suite updated appropriately.

#### History

##### #1 - 13 Nov 2016 11:15 - Markus Durzinsky

Patched exiv2 results with the images.

```
> exiv2 -pv *sample1.jpg | grep LensType
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg 0x0016 CanonCs      LensType      Short      1
174
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg 0x0016 CanonCs      LensType      Short      1
174
> exiv2 -pt *sample1.jpg | grep LensType
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType      Short      1 Si
gma 120-300mm f/2.8 EX APO DG OS HSM
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType      Short      1 Sig
ma 150-500mm f/5-6.3 APO DG OS HSM
```

##### #2 - 13 Nov 2016 11:56 - Robin Mills

- Category set to lens
- Status changed from New to Closed
- Assignee set to Robin Mills
- Target version set to 0.26
- % Done changed from 0 to 100
- Estimated time set to 1.00 h

Markus

Thanks for the patch. I have reviewed and submitted your patch as it passes the test suite. [r4684](#).

Please read [#1251](#) for a discussion about lens recognition in v0.26.

Thanks for the test image. Here's the behaviour before/after your patch:

```
645 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa --grep lens/i sigma_*.jpg
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType      Short      1 17
4
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.Lens      Short      3 12
0.0 - 300.0 mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Canon.LensModel      Ascii      74 12
```

```

0-300mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSpecification Rational 4 12
0/1 300/1 0/1 0/1
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensModel Ascii 10 12
0-300mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSerialNumber Ascii 11 00
00000000

sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType Short 1 Sig
ma 150-500mm f/5-6.3 APO DG OS HSM
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.Lens Short 3 150
.0 - 500.0 mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Canon.LensModel Ascii 74 150
-500mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSpecification Rational 4 150
/1 500/1 0/1 0/1
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensModel Ascii 10 150
-500mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSerialNumber Ascii 11 000
00000000
646 rmills@rmillsmbp:~/gnu/exiv2/trunk $ makes
make
warning: no debug symbols in executable (-arch x86_64)
20 423 6304
sudo make install
108 602 8275
647 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa --grep lens/i sigma_*.jpg
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType Short 1 Si
gma 120-300mm f/2.8 EX APO DG OS HSM
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.Lens Short 3 12
0.0 - 300.0 mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Canon.LensModel Ascii 74 12
0-300mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSpecification Rational 4 12
0/1 300/1 0/1 0/1
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensModel Ascii 10 12
0-300mm
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSerialNumber Ascii 11 00
00000000

sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.LensType Short 1 Sig
ma 150-500mm f/5-6.3 APO DG OS HSM
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.CanonCs.Lens Short 3 150
.0 - 500.0 mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Canon.LensModel Ascii 74 150
-500mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSpecification Rational 4 150
/1 500/1 0/1 0/1
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensModel Ascii 10 150
-500mm
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg Exif.Photo.LensSerialNumber Ascii 11 000
00000000
648 rmills@rmillsmbp:~/gnu/exiv2/trunk $

```

I've extracted the metadata from your test images and added them to our test suite as `test/data/exiv2-bug1252a.exv` and `test/data/exiv2-bug1252b.exv` :

```

648 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -ea --verbose --force sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample
1.jpg
File 1/1: sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg
Writing Exif data from sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg to ./sigma_120_300_2.8_EX_APO_DG_OS_HSM_
sample1.exv
Writing XMP data from sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg to ./sigma_120_300_2.8_EX_APO_DG_OS_HSM_s
ample1.exv

649 rmills@rmillsmbp:~/gnu/exiv2/trunk $ mv sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.exv test/data/exiv2-bug
1252a.exv

650 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -ea --verbose --force sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1
.jpg
File 1/1: sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg
Writing Exif data from sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg to ./sigma_150_500_5_6.3_APO_DG_OS_HSM_sa
mple1.exv
Writing XMP data from sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg to ./sigma_150_500_5_6.3_APO_DG_OS_HSM_sam
ple1.exv

```

```
651 rmills@rmillsmbp:~/gnu/exiv2/trunk $ mv sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.exv test/data/exiv2-bug1252b.exv
```

I've update the test suite appropriately as a "regression detector" should your patch be broken by a future change in canonmn.cpp.

Thank you for using Exiv2 and contributing to its development.

Exiv2Logo.png  
Robin

### Files

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sigma_120_300_ex.patch	762 Bytes	13 Nov 2016	Markus Durzinsky
sigma_120_300_2.8_EX_APO_DG_OS_HSM_sample1.jpg	682 KB	13 Nov 2016	Markus Durzinsky
sigma_150_500_5_6.3_APO_DG_OS_HSM_sample1.jpg	663 KB	13 Nov 2016	Markus Durzinsky