

## Exiv2 - Feature #1323

### Add lens "Sigma 18-300mm f/3.5-6.3 DC Macro OS HS" for Canon ID 197

11 Nov 2017 22:41 - Ronny Heidenreich

<b>Status:</b>	Closed	<b>Start date:</b>	11 Nov 2017
<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>	0.27		
<b>Description</b>			
\$ exiv2 -pt IMG_6312.cr2   grep -ai lens			
Exif.CanonCs.LensType           Short    1 Canon EF 75-300mm f/4-5.6 IS USM			
Exif.CanonCs.Lens               Short    3 18.0 - 300.0 mm			
Exif.Canon.LensModel           Ascii   70 18-300mm			
Exif.Photo.LensSpecification   Rational 4 18/1 300/1 0/0 0/0			
Exif.Photo.LensModel           Ascii   70 18-300mm			
Exif.Photo.LensSerialNumber    Ascii   12 0000000000			
<a href="https://www.sigma-global.com/en/lenses/cas/product/contemporary/c_18_300_35_63/">https://www.sigma-global.com/en/lenses/cas/product/contemporary/c_18_300_35_63/</a>			

## History

### #1 - 12 Nov 2017 03:38 - Robin Mills

- Category set to lens
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.27
- % Done changed from 0 to 10
- Estimated time set to 2.00 h

Can you attach an image taken with this lens and I will investigate.

### #2 - 12 Nov 2017 10:14 - Ronny Heidenreich

- File IMG\_6559.JPG added

### #3 - 12 Nov 2017 11:26 - Robin Mills

- % Done changed from 10 to 50

Thanks for the test file. The quick fix for this in Exiv2 v0.26 is to add the following to ~/.exiv2:

```
[canon]
197=Sigma 18-300mm f/3.5-6.3 DC Macro OS HS
```

Lens recognition is not simple because manufacturers often use the same lens id (in this case 197) for more than one lens. You could modify the code in src/canonmn.cpp to be:

```
{ 197, "Sigma 18-300mm f/3.5-6.3 DC Macro OS HS" },
```

However in order to permanently add the recognition of your lens, we have to provide a function such as:

```
{ 197, printCsLensByFocalLength }, // not tested
```

The function printCsLensByFocalLength has to be "tuned" to examine all the metadata in the image to distinguish your lens from another with ID = 197.

I added the file ~/.exiv2 for the following reasons:

- 1) You can overwrite the "built in" definition without waiting for a new release of Exiv2
- 2) to save me the effort to add code to determine which of several lens is in use
- 3) When you update your version of Exiv2, your definition in ~/.exiv2 remains valid.

Here's the documentation for this feature: [http://dev.exiv2.org/projects/exiv2/wiki/Lens\\_Recognition\\_in\\_Exiv2\\_v026\\_\(and\\_later\)](http://dev.exiv2.org/projects/exiv2/wiki/Lens_Recognition_in_Exiv2_v026_(and_later))

**#4 - 13 Nov 2017 06:41 - Robin Mills**

- Status changed from Assigned to Closed
- % Done changed from 50 to 100
- Estimated time changed from 2.00 h to 1.00 h

I'm going to close this issue. If you wish to discuss this further, you are welcome to add comments and I will reopen the case.

If you'd like to accept the challenge of updating the code in printCsLensByFocalLength to identify your lens, I'm always looking for volunteers to join Team Exiv2. You'll find this interesting, rewarding and a little frustrating. I assure you of great mentoring and encouragement from other team members.

**Files**

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IMG_6559.JPG	2.66 MB	12 Nov 2017	Ronny Heidenreich
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