

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

Status:	Closed	Start date:	11 Nov 2017
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	lens	Estimated time:	1.00 hour
Target version:	0.27		
Description			
\$ 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			
https://www.sigma-global.com/en/lenses/cas/product/contemporary/c_18_300_35_63/			

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

IMG_6559.JPG	2.66 MB	12 Nov 2017	Ronny Heidenreich
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