

Exiv2 - Patch #1122

Lens Detection with Teleconverter - Sigma 150-500mm f/5-6.3 APO DG OS HSM again

29 Sep 2015 21:29 - Steve Fosdick

Status:	Closed	Start date:	29 Sep 2015
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	makernote	Estimated time:	0.00 hour
Target version:	0.26		
Description			
<p>When coupled with the Canon 2x teleconverter the Sigma 150-500mm f/5-6.3 APO DG OS HSM is once again not detected. The numeric ID reported is 173 which is also used by some other lenses. Simply adding a new tag entry for 173 with this lens name is not sufficient as the minimum and maximum focal lengths in the EXIF are scaled to account for the TC, i.e. reported as 300-1000 rather than 150-500. As far as I can see this is the first lens + TC combination to appear in an ID conflict.</p> <p>For now, I have introduced a hack that deals with this specific combination and I attach a patch. I will see if I can think of something a little more generic and, if I do, will submit that too.</p>			

Associated revisions

Revision 3971 - 30 Sep 2015 08:21 - Robin Mills

#1122 Thank You, Steve for the patch.

Revision 3972 - 02 Oct 2015 08:40 - Robin Mills

#1122 Adding regression detector to the test suite. Thank You, Steve, for the test image.

History

#1 - 29 Sep 2015 21:57 - Steve Fosdick

- File *generic.patch* added

Here is a second patch, this time more generic. This works by repeating the search by focal length with the focal length scaled down.

#2 - 29 Sep 2015 22:29 - Robin Mills

- Status changed from *New* to *Assigned*

- Target version set to *0.26*

Thanks, Steve. I'll take a look at that tomorrow.

#3 - 30 Sep 2015 08:30 - Robin Mills

- Status changed from *Assigned* to *Resolved*

- Assignee set to *Robin Mills*

- % Done changed from *0* to *100*

Patch 'generic.patch' submitted [r3971](#). Thank You, Steve for working on this and providing the patch.

Steve:
I've only recently taken on support for Maker Notes, so I'm not familiar with this code. What you've done "*smells right*" and hasn't broken our test suite. So I've submitted your generic patch.

Do you have any images that we can add to our test suite for any/all of the 173 lensID lenses? These are listed in `src/canonmn.cpp`:

```
{ 173, "Canon EF 180mm Macro f/3.5L"           }, // 0
{ 173, "Sigma 180mm EX HSM Macro f/3.5"       }, // 1
{ 173, "Sigma APO Macro 150mm f/3.5 EX DG IF HSM" }, // 2
{ 173, "Sigma 150-500mm f/5-6.3 APO DG OS HSM + 2x" }, // 3
```

I don't want to burden Niels who has recently retired from Exiv2 to attend college in addition to his very demanding job. If any issue surfaces surrounding this, I might ask him to help. For the moment, I'll set the status to 100% resolved.

#4 - 01 Oct 2015 23:38 - Steve Fosdick

- File *sigma_150-500 2x_test.jpg* added

Of the three lenses I only have the Sigma 150-500 so I attach an image taken with this and the 2x converter. Without the converter this lens uses ID 174.

#5 - 02 Oct 2015 08:51 - Robin Mills

Thank You, Steve for the image. A very nice photo. I've extracted the metadata to the file `test/data/exiv2-bug1122.exv` and updated `test/bugfixes.sh` to read your file. [r3972](#)

The reason to extract the metadata is to save space in the test suite. I did this with the following commands:

```
603 rmills@rmillssmbp:~/gnu/exiv2/trunk $ exiv2 -ea http://dev.exiv2.org/attachments/download/844/sigma_150-500%202x_test.jpg
604 rmills@rmillssmbp:~/gnu/exiv2/trunk $ mv sigma_150-500%202x_test.exv test/data/exiv2-bug1122.exv
```

#6 - 08 Nov 2015 18:41 - Robin Mills

- Status changed from *Resolved* to *Closed*

I'm going to set the status of this to closed. It has been 100% resolved for some time without further incident.

Files

hack.patch	2.7 KB	29 Sep 2015	Steve Fosdick
generic.patch	5.92 KB	29 Sep 2015	Steve Fosdick
sigma_150-500 2x_test.jpg	3.31 MB	01 Oct 2015	Steve Fosdick