

Exiv2 - Feature #825

Panasonic Manometer Tag

10 May 2012 15:36 - Christoph Anton Mitterer

Status:	Closed	Start date:	10 May 2012
Priority:	Normal	Due date:	04 Sep 2016
Assignee:	Ben Touchette	% Done:	100%
Category:	exif	Estimated time:	1.00 hour
Target version:	0.26		

Description

Hi.

I found out the (AFAIK yet undocumented) tag for the manometer of some Panasonic cameras.

The tag "Exif.Panasonic.0x0086" gives the pressure in unit "hPa".

I verified this using a Panasonic Lumix DMC-FT4, with a whole series of shots, comparing the pressure value displayed for the pictures in the camera (where the unit is given, too) with the values from all tags.

They always matched.

I've had a few test pictures from the successor DMC-FT3 and while I haven't had the camera there, the values seemed highly reasonable to be the correct pressure values, just as in the DMC-FT4.

Please integrate :)

Associated revisions

Revision 4459 - 04 Sep 2016 11:22 - Ben Touchette

#825 added printPressure for panasonic makernotes to display hPa values or infinite when value is 65535 for Exif field 0x0086

Revision 4460 - 05 Sep 2016 10:32 - Robin Mills

#825 Adding regression detector to test suite.

History

#1 - 28 Apr 2015 12:04 - Robin Mills

- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.25

Christoph

Apologies for taking so long to looking at your issue report. We're preparing to release v0.25 in mid-May. Can you provide a test image please and this will be investigated.

#2 - 29 Apr 2015 02:31 - Christoph Anton Mitterer

- File P1010527.JPG added

- File P1020018.JPG added

No worries :-)

Attached are two images.

As you can see the camera apparently uses a special value of 65535 when being under water (the pressure sensor doesn't work there unfortunately).

#3 - 09 May 2015 08:19 - Robin Mills

- Target version changed from 0.25 to 0.26

Deferred to v0.26. Insufficient time to deal with this for v0.25.

#4 - 23 May 2015 08:46 - Robin Mills

- Assignee deleted (Robin Mills)

#5 - 04 Sep 2016 11:24 - Ben Touchette

@Robin Updated in r4459 to display hPa value or infinite when set to 65535.

#6 - 04 Sep 2016 12:02 - Ben Touchette

- Due date set to 04 Sep 2016

- Status changed from Assigned to Resolved

- Assignee set to Ben Touchette

- % Done changed from 0 to 100

- Estimated time set to 1.00

#7 - 04 Sep 2016 12:05 - Ben Touchette

- Status changed from Resolved to Closed

#8 - 05 Sep 2016 10:34 - Robin Mills

Thanks very much Ben for dealing with this. Two very nice photos. I've submitted changes to the test suite: r4460 825

```
rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa --grep mano/i http://dev.exiv2.org/attachments/download/777/P1010527.JPG
```

```
Exif.Panasonic.ManometerPressure      Short    1 infinite
```

```
826 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pv --grep mano/i http://dev.exiv2.org/attachments/download/777/P1010527.JPG
```

```
0x0086 Panasonic  ManometerPressure      Short    1 65535
```

```
827 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa --grep mano/i http://dev.exiv2.org/attachments/download/778/P1020018.JPG
```

```
Exif.Panasonic.ManometerPressure      Short    1 1007 hPa
```

```
828 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pv --grep mano/i http://dev.exiv2.org/attachments/download/778/P1020018.JPG
```

```
0x0086 Panasonic  ManometerPressure      Short    1 1007
```

```
829 rmills@rmillsmbp:~/gnu/exiv2/trunk $
```

I've extracted the metadata from the images and added them to the test suite. 829 rmills@rmillsmbp:~/gnu/exiv2/trunk \$ exiv2 -ea --verbose

```
http://dev.exiv2.org/attachments/download/778/P1020018.JPG
```

```
File 1/1: http://dev.exiv2.org/attachments/download/778/P1020018.JPG
```

```
Writing Exif data from http://dev.exiv2.org/attachments/download/778/P1020018.JPG to P1020018.exv
```

```
830 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -ea --verbose http://dev.exiv2.org/attachments/download/777/P1010527.JPG
```

```
File 1/1: http://dev.exiv2.org/attachments/download/777/P1010527.JPG
```

```
Writing Exif data from http://dev.exiv2.org/attachments/download/777/P1010527.JPG to P1010527.exv
```

```

831 rmills@rmillsmbp:~/gnu/exiv2/trunk $ ls -alt P*.exv
-rw-r--r--+ 1 rmills staff 19085 5 Sep 11:19 P1010527.exv
-rw-r--r--+ 1 rmills staff 16127 5 Sep 11:19 P1020018.exv
832 rmills@rmillsmbp:~/gnu/exiv2/trunk $ mv P1010527.exv test/data/exiv2-bug825a.exv
833 rmills@rmillsmbp:~/gnu/exiv2/trunk $ mv P1020018.exv test/data/exiv2-bug825b.exv
834 rmills@rmillsmbp:~/gnu/exiv2/trunk $ cd test/data
835 rmills@rmillsmbp:~/gnu/exiv2/trunk/test/data $ dir *825*
-rw-r--r--+ 1 rmills staff 19K 5 Sep 11:19 exiv2-bug825a.exv
-rw-r--r--+ 1 rmills staff 16K 5 Sep 11:19 exiv2-bug825b.exv
836 rmills@rmillsmbp:~/gnu/exiv2/trunk/test/data $ svn add *825*
A (bin) exiv2-bug825a.exv
A (bin) exiv2-bug825b.exv

```

I've updated test/bugfixes.sh (and test/data/bugfixes.out) to use the metadata. I call this a "regression detector". If Exiv2 reverts to its former behaviour, we'll know about it!

Files

P1010527.JPG	4.5 MB	29 Apr 2015	Christoph Anton Mitterer
P1020018.JPG	4.46 MB	29 Apr 2015	Christoph Anton Mitterer