



```
Exif.Panasonic.SceneMode           Short      1  Intelligent auto
Exif.Panasonic.WBRedLevel          Short      1  2135
...
```

I have tried to modify the patch file: I have changed 'undefined' by 'asciiString' (for instance line 451 of panasonicmn.cpp, for the Country tag). But I'm not familiar with it at all -> this was not very successful ...

One remark: why is there 2 lines for the tag 'Baby Age' (0x0033 and 0x8010 tags) ?

Thanks in advance

### #3 - 30 Oct 2013 09:25 - T Modes

- File *panasonicmn.cpp.patch* added

Find attached a modified patch, which should now correctly display the wrong tag values.

Concerning the double Baby age tags:

- maybe the cam writes the values twice
- or can have 2 baby ages for different children in the cam.

### #4 - 30 Oct 2013 15:26 - Nicolas Nicofo

Thank you, it's better !! But it can still better. Here are a few remarks:

- 1) Exif.Panasonic.InternalSerialNumber -> should also use your printPanasonicText function (panasonicmn.cpp line 405)
- 2) Exif.Panasonic.ProgramISO displays '65534' instead of 'Intellent ISO' (according to exiftool) (see example on picture [1])
- 3) if not set, Exif.Panasonic.TravelDay displays '65535' instead of 'not set' [1] ; otherwise it displays the correct number of days
- 4) the **Face Detection** information is not correctly displayed. I have seen 3 exif tags:
  - 4.1) Exif.Panasonic.FacesDetected -> number of detected faces: OK (there are 2 in the picture given as example in [1])
  - 4.2) Exif.Panasonic.FaceDetInfo -> it is a list of the position of the faces on the picture
  - 4.3) Exif.Panasonic.FaceRecInfo -> it is a list of information concerning the recognized persons: each recognized person has his Age + Name + position on the picturePoints 4.2 and 4.3 are not shown with exiv2.

For information, exiftool output for [1] is:

```
exiftool Desktop/TEST_FACE_DETECTION.jpg | grep -i face
File Name           : TEST_FACE_DETECTION.jpg
AF Area Mode        : Face Detect
Faces Detected      : 2
Num Face Positions  : 2
Face 1 Position     : 92 110 25 25
Face 2 Position     : 251 103 24 24
Faces Recognized    : 2
Recognized Face 1 Name : POUTINE
Recognized Face 1 Position : 92 110 25 25
Recognized Face 1 Age   : 0009:00:05 00:00:00   '9 year old, 0 month, 5 days: it is correct since I
have not put the correct age in my camera ;-)
Recognized Face 2 Name : OBAMA
Recognized Face 2 Position : 251 103 24 24
Recognized Face 2 Age   : 0015:04:00 00:00:00
```

- 5) Exif.Panasonic.TimeSincePowerOn not correctly displayed (shows the time in milliseconds instead of a readable format in hour/minute/second). Just to try, I have add the following function 'printTimeSincePowerOn' in panasonicmn.cpp following your 'printPanasonicText' function (+ added it on line 409 + in panasonicmn\_int.hpp file). And it works (but needs amelioration to have a better format). For [1], it outputs "0:4:31.48" (instead of "00:04:31.48")

```
std::ostream& PanasonicMakerNote::printTimeSincePowerOn(std::ostream& os,
                                                         const Value& value,
                                                         const ExifData*)
{
    //if(value.size()>0 ) //not needed ?
    //{
        long time=value.toLong();
        //TODO: add something like <<std::setw(2)<<std::setfill('0') to format the output
        os << time/360000<<":"<<(time%360000)/6000<<":"<<(time%6000)/100<<". "<<time%100;
        return os;
    //}
    //else
```

```
//{  
//  return os << value;  
//};  
} // PanasonicMakerNote::printTimeSincePowerOn
```

[1] > see example on the picture [http://nicofu.tuxfamily.org/tmp/TEST\\_FACE\\_DETECTION.jpg](http://nicofu.tuxfamily.org/tmp/TEST_FACE_DETECTION.jpg) where I have added the face detection of Poutine and Obama :)

#### #5 - 31 Oct 2013 08:19 - T Modes

- File *panasonicmn.cpp.patch* added

A further improved patch.

Points 1, 2, 3 and 5 are fixed.

The face detection information is a little bit more complicated. It is saved as sub tags. This requires some more changes. But I'm not so firm with the exiv2 code base to write this code. So I leave this point open.

#### #6 - 02 Nov 2013 15:21 - Nicolas Nicofo

Excellent, thanks again, it works as expected, I have no other remark except concerning the "baby age2": you changed the second 'BabyAge' into 'BabyAge2': maybe you should also change the description i.e. 'Baby (or pet) age' -> 'Baby (or pet) age2'. Rem: exiftool has only one tag 'Baby age'.

For the Face detection information, I can eventually fill a new bug report so that this one can be closed. I don't know if it is useful ??? (eventually to have your patch included in the next release of exiv2 even if Face Detection is not fixed)

#### #7 - 09 Nov 2013 02:01 - T Modes

- File *panasonicmn.cpp.patch* added

I extended the patch with some newly decoded tag values.

#### #8 - 16 Nov 2013 14:09 - Nicolas Nicofo

- File *panasonicmn.cpp.patch* added

Thanks again.

1) Concerning your last patch, is it normal that I don't see any RollAngle nor PitchAngle tags using exiv2 ? (maybe it's just my camera that don't handle them ?)

I see well the other tags you added (Accelerometer...)

2) There is a slight improvement to do: there are several tags that have the same description which is a little bit confusing. For instance digikam displays 4 tags "Text Stamp" :( It would be better if it states "Text stamp 1" ; "Text Stamp 2" ; ...)

This concerns the following tags:

- Baby Age 1,2
- Text Stamp 1,2,3,4
- Transform 1,2

I have updated your patch to add a number (so "Text stamp" becomes "Text stamp 1" etc.)

#### #9 - 02 Dec 2013 19:24 - Andreas Huggel

- Category set to *metadata*

- Status changed from *New* to *Assigned*

- Assignee set to *Andreas Huggel*

- Target version set to *0.25*

#### #10 - 04 Dec 2013 11:14 - T Modes

- File *panasonicmn.cpp.patch* added

Attached a version with some more tags.

Concerning the tags with the same name: it seems they are duplicate information. But I don't know how exiv2 should handle them.

#### #11 - 02 Jan 2014 07:59 - Nicolas Nicofo

Thank you.

Concerning the tag 0x003d "Advanced Scene Type" you just added, you just use the 'printValue' method to display it. As a result a code (1 to 14) is displayed. Here are the information that should be printed (instead of the number):

1	normal	Normal
2	outdoor	Outdoor/Illuminations/Flower/HDR Art
3	indoor	Indoor/Architecture/Objects/HDR B&W
4	creative	Creative
5	auto	Auto
7	expressive	Expressive
8	retro	Retro
9	pure	Pure
10	elegant	Elegant
12	monochrome	Monochrome
13	dynamic	Dynamic Art
14	silhouette	Silhouette

(I found the information <http://www.hugsan.com/exifutils/exifutils-fieldref.pdf> page 111 and can confirm it, at least for the common 1, 4 and 5 modes)

Rem: I have updated your patch to swap baby age 1 and 2 (according to the same pdf and other programs) and add a number (so "Text stamp" becomes "Text stamp 1" etc.)

#### #12 - 03 Jan 2014 01:05 - T Modes

According to <http://www.sno.phy.queensu.ca/~phil/exiftool/TagNames/Panasonic.html> the tag 0x003d can contain more values and should be seen with tag 0x8001 SceneMode (see composite tag AdvancedSceneMode). Your implementation covers only a small subset of the values. So I don't agree with your changes.

#### #13 - 04 Jan 2014 03:25 - Nicolas Nicofo

Yes, I had seen your page too, but what I read there did not correspond to my pictures metadata (or all the combinations of 003d and 8001 are not listed).

Unless I don't interpret it correctly.

For instance, for a picture made using full automatic control (and where the camera detects a night scene), I have:

- Advanced Scene Type = 5
- Scene Mode = "Handheld Night Shot" (55)

For another picture made using the scene mode 'night scene', I have:

- Advanced Scene Type = 1
- Scene Mode = "Handheld Night Shot" (55)

-> How should I understand that with your table ?

#### #14 - 04 Jan 2014 07:51 - T Modes

or all the combinations of 003d and 8001 are not listed

That may be. So if you found other combination report them also to Phil Harvey from ExifTool.

Just one example:

- Advanced Scene Type = 3
- can mean
- Indoor Portrait
  - Architecture
  - Indoor Sports
  - Object
  - HDR B&W
  - High Key
  - Color Select
  - Old Day

depending on the value of SceneMode. (At least these are the already decoded combinations. Not all combinations are used by all cameras. The possible combination depends on the actual camera model.)

So which value should be printed for tag AdvancedSceneType? All like in your example? This would not be helpful.

#### #15 - 08 Jan 2014 14:21 - Nicolas Nicofo

- File *Panasonic\_-\_AdvancedSceneMode.ods* added

I have made some tests with my camera (TZ40) and I have listed all the tags for the 'creative control' mode (and also the common values for the other modes: full automatic (iA), Program (P), Aperture (A)/Shutter (S) priority and scene mode (SCN).

-> **See document ods attached.**

(Rem: also the patch from my comment #11 that I have forgotten to attach)

**#16 - 08 Jan 2014 14:23 - Nicolas Nicofo**

- File *panasonicmn.cpp.patch* added

**#17 - 13 Aug 2014 15:11 - Nicolas Nicofo**

- File *panasonicmn.cpp.patch* added

Hi,

I have added a new tag ('City') to the new metadata list (see <http://u88.n24.queensu.ca/exiftool/forum/index.php/topic.5997.0.html> for detail). Here is the new patch.

**#18 - 30 Aug 2014 23:21 - Niels Kristian Bech Jensen**

- Assignee changed from *Andreas Huggel* to *Niels Kristian Bech Jensen*

**#19 - 06 Sep 2014 01:53 - T Modes**

Hi,

I don't agree with the last version of the patch.

The tag 0x6d is used for the "City" tag. All (previous) models are using this nomenclature.

Only for the newer TZ40 the meaning changed and the city tag moved to 0x80 and tag 0x6d is used for the county.

So this version would not so fine for all (older) cameras.

So maybe City for 0x6d and City2 for 0x80 is more appreciate (and also used by exiftool).

**#20 - 07 Sep 2014 21:04 - Niels Kristian Bech Jensen**

- Due date set to *08 Sep 2014*

- Status changed from *Assigned* to *Resolved*

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

Thanks to all for patches and input. I have submitted the latest patch with the County->City and City->City2 changes. I prefer to follow ExifTool in these matters.

Please test and report any issues.

Best regards,

Niels Kristian Bech Jensen

**#21 - 21 Jun 2015 16:42 - Andreas Huggel**

- Status changed from *Resolved* to *Closed*

**Files**

---

panasonicmn.cpp.patch	20.6 KB	29 Oct 2013	T Modes
panasonicmn.cpp.patch	22.6 KB	30 Oct 2013	T Modes
panasonicmn.cpp.patch	28.4 KB	31 Oct 2013	T Modes
panasonicmn.cpp.patch	31.5 KB	09 Nov 2013	T Modes
panasonicmn.cpp.patch	32.1 KB	16 Nov 2013	Nicolas Nicofo
panasonicmn.cpp.patch	34.7 KB	04 Dec 2013	T Modes
Panasonic_-_AdvancedSceneMode.ods	6.2 KB	08 Jan 2014	Nicolas Nicofo
panasonicmn.cpp.patch	35.3 KB	08 Jan 2014	Nicolas Nicofo
panasonicmn.cpp.patch	35.2 KB	13 Aug 2014	Nicolas Nicofo