

Exiv2 - Bug #949

exiv2 cannot read WB RGGB values in ARW files?

07 Feb 2014 14:49 - Derek Cordeiro

Status:	Closed	Start date:	07 Feb 2014
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	withdrawn	Estimated time:	1.00 hour
Target version:	0.26		

Description

Hello,

I have encountered issues with White Balance reading with tools that depend on exiv2(RawTheraPee). If the ARW image is converted to a DNG, everything works fine. Is this a bug?

```
derek@derek-pc-local:~/exiv2-0.24$ ./bin/exiv2 pr -pa /Pictures/2014/01/19/_DSC0355.ARW |grep -i rggb
derek@derek-pc-local:~/exiv2-0.24$ exiftool /Pictures/2014/01/19/_DSC0355.ARW|grep -i rggb
```

WB RGGB Levels : 2152 1024 1024 2156

```
derek@derek-pc-local:~/exiv2-0.24$ ./bin/exiv2 -V
exiv2 0.24 001800 (64 bit build)
Copyright (C) 2004-2013 Andreas Huggel.
```

History

#1 - 25 Apr 2015 12:57 - Robin Mills

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

Can you provide me with a test file, please? I've found one here: http://www.rawsamples.ch/raws/sony/a100/RAW_SONY_A100.ARW

```
512 rmills@rmillsmbp:~/Downloads $ dir *.ARW
-rw-r--r--@ 1 rmills staff 8.7M 10 Sep 2013 RAW_SONY_A100.ARW
513 rmills@rmillsmbp:~/Downloads $ exiv2 -pa -g White RAW_SONY_A100.ARW
Error: Directory SubImage1 with 6496 entries considered invalid; not read.
Exif.SonyMinolta.WhiteBalanceFineTune Long 1 0
Exif.Sony1MltCsA100.WhiteBalance Short 1 Cloudy
Exif.Sony1MltCsA100.WhiteBalanceBracketing Short 1 Low
Exif.Sony1MltCsA100.WhiteBalanceSetting Short 1 Preset
Exif.Sony1MltCsA100.PresetWhiteBalance Short 1 Cloudy
Exif.Sony1MltCsA100.WhiteBalanceFineTune SShort 1 0
Exif.SonyMinolta.WhiteBalance Long 1 Cloudy
Exif.Photo.WhiteBalance Short 1 Manual
514 rmills@rmillsmbp:~/Downloads $
```

#2 - 09 May 2015 08:18 - Robin Mills

- Target version changed from 0.25 to 0.26

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

#3 - 23 May 2015 08:40 - Robin Mills

- Assignee deleted (Robin Mills)

#4 - 14 Jun 2016 22:07 - Robin Mills

- Category changed from metadata to withdrawn
- Status changed from Assigned to Closed
- Assignee set to Robin Mills
- % Done changed from 0 to 100
- Estimated time set to 1.00 h

I'm going to close this issue as there is very little information. It appears that exiv2 does not read the WhiteBalance RGGB values in ARW file. We have a project scheduled for v0.27 to improve our Raw image support [#992](#).

I've never used RT. I assume it convert ARW to DNG using Adobe's Converter. For the moment, you'll have to continue to take that route.

#5 - 08 Apr 2018 17:56 - Andreas S.

FYI, the same issue also exists with Nikon (.NEF) files:

```
exiftool -s -t -WhiteBalance -WhiteBalanceFineTune -ColorTemperature -RedBalance -BlueBalance 2017-09-20_Peru_0202.nef
WhiteBalance      Auto1
WhiteBalanceFineTune  1 0
RedBalance        2.179688
BlueBalance       1.726563

exiv2 -pa 2017-09-20_Peru_0202.nef | grep Balance
Exif.Nikon3.WhiteBalance      Ascii      13  AUTO1
Exif.Nikon3.WhiteBalanceBias  SShort     2   1  0
```

I've tried to write a python script to generate C source code for darktable white balance presets and I don't find a way to get RedBalance and BlueBalance out of any RAW files I have here with exiv2.