

darktable - Camera Support #11020

Nikon D500 - uncompressed

05/08/2016 06:20 PM - Marcel Bihl

Status: Fixed	Start date: 05/08/2016
Priority: Low	Due date:
Assignee:	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version: 2.4.0	
Affected Version: 2.0.4	
Description Darktable 2.04 can not open RAW Files from a Nikon D500 (due to whitebalance that can not be read). I'll make available several Raw files with different depth (12 and 14 bit) and compression (none, lossless, compressed). I also add a medium-size Raw and a small-sized one (both 14-bit lossless, don't know if the size matters). The files will be here shortly: https://www.dropbox.com/sh/hb8nzbgheh5nwqri/AAD3BBIt73ftfpYkg_W39Hlwa?dl=0 Regards Marcel	
Related issues: Duplicated by darktable - Bug #11577: nikon D500 support Duplicate 04/17/2017	

Associated revisions

Revision 5a227572 - 08/10/2016 10:03 PM - Roman Lebedev

Nikon D500 - basic support (only 12bit / 14bit compressed raws!). Refs #11020

All iso levels have the same black/white levels...

Revision 906e59aa - 08/10/2016 10:13 PM - Roman Lebedev

Nikon D500 - basic support (only 12bit / 14bit compressed raws!). Refs #11020

All iso levels have the same black/white levels...

(cherry picked from commit 5a227572df55280e1331e138f2415d375455f055)

Revision c8d5a356 - 04/19/2017 10:35 AM - Roman Lebedev

NIKON D500: uncompressed modes support. Fixes #11020

History

#1 - 06/19/2016 03:37 PM - Marcel Bihl

Using the following values, I get acceptable results for 14-bit lossless compressed images (the values are extracted from converted dngs):

```
diff --git a/src/external/adobe_coeff.c b/src/external/adobe_coeff.c
index 1870b4c..575aeeec 100644
--- a/src/external/adobe_coeff.c
+++ b/src/external/adobe_coeff.c
@@ -270,6 +270,7 @@ static void dt_dcraw_adobe_coeff(const char *name, float cam_xyz[1][12])
     { "Nikon D5300", { 6988,-1384,-714,-5631,13410,2447,-1485,2204,7318 } },
     { "Nikon D5500", { 8821,-2938,-785,-4178,12142,2287,-824,1651,6860 } },
     { "Nikon D50", { 7732,-2422,-789,-8238,15884,2498,-859,783,7330 } },
+   { "Nikon D500", { 8813,-3210,-1036,-4703,12868,2021,-1054,1940,6129 } },
```

```

    { "Nikon D600", { 8178,-2245,-609,-4857,12394,2776,-1207,2086,7298 } },
    { "Nikon D610", { 8178,-2245,-609,-4857,12394,2776,-1207,2086,7298 } },
    { "Nikon D60", { 8736,-2458,-935,-9075,16894,2251,-1354,1242,8263 } },
diff --git a/src/external/rawspeed/data/cameras.xml b/src/external/rawspeed/data/cameras.xml
index c7ba848..7147d84 100644
--- a/src/external/rawspeed/data/cameras.xml
+++ b/src/external/rawspeed/data/cameras.xml
@@ -1805,6 +1805,23 @@
         <Crop x="0" y="0" width="-46" height="0"/>
         <Sensor black="0" white="15892"/>
     </Camera>
+     <Camera make="NIKON CORPORATION" model="NIKON D500">
+
+         <ID make="Nikon" model="D500">Nikon D500</ID>
+
+         <CFA width="2" height="2">
+             <Color x="0" y="0">RED</Color>
+             <Color x="1" y="0">GREEN</Color>
+             <Color x="0" y="1">GREEN</Color>
+             <Color x="1" y="1">BLUE</Color>
+         </CFA>
+         <Crop x="0" y="0" width="0" height="0"/>
+         <Sensor black="400" white="15520"/>
+         <Hints>
+             <Hint name="nikon_override_auto_black" value=""/>
+         </Hints>
+     </Camera>
+
+     <Camera make="NIKON CORPORATION" model="NIKON D3100" decoder_version="2">
+         <ID make="Nikon" model="D3100">Nikon D3100</ID>
+         <CFA width="2" height="2">

```

#2 - 06/26/2016 12:52 PM - Marcel Bihl

- File 0001-Basic-camera-support-for-Nikon-d500-14bit-compressed.patch added

Please find attached a patch enabling Nikon D500 basic support for 14-bit compressed and 12-bit compressed images. The uncompressed do not yet work.

#3 - 08/11/2016 03:58 PM - Roman Lebedev

- % Done changed from 0 to 20
- Status changed from New to Incomplete
- Subject changed from Basic Support for Nikon D500 to Nikon D500 - uncompressed

#4 - 04/17/2017 11:09 PM - Roman Lebedev

- Duplicated by Bug #11577: nikon D500 support added

#5 - 04/19/2017 11:15 AM - Roman Lebedev

- Status changed from Incomplete to Fixed
- % Done changed from 20 to 100

Applied in changeset [darktablec8d5a356edeebb7ad811a4857e130879dafa143c](#).

#6 - 05/08/2017 02:50 PM - Roman Lebedev

- Target version set to 2.4.0

Files

0001-Basic-camera-support-for-Nikon-d500-14bit-compressed.patch	2.59 KB	06/26/2016	Marcel Bihl
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