darktable - Camera Support #12246

Support for Canon EOS M50 and CR3 file format

06/29/2018 08:56 PM - Mario Rettig

Status:	Incomplete	**Start date:**	06/29/2018
Priority:	Medium	**Due date:**	
Assignee:		**% Done:**	20%
Category:		**Estimated time:**	666.00 hours
Target version:			
Affected Version:	2.4.4		

Description
Please add support for the Canon EOS M50 and the new Canon RAW file format. Attached RAW files are also available at raw.pixls.us

Related issues:		
Duplicated by darktable - Camera Support #12269: Canon M50	**Duplicate**	07/23/2018

History

#1 - 06/29/2018 09:04 PM - Roman Lebedev

- Estimated time set to 666.00

- Status changed from New to Incomplete

- % Done changed from 0 to 20

Cross-referencing
https://github.com/darktable-org/rawspeed/issues/121
https://github.com/Exiv2/exiv2/issues/236
https://github.com/Beep6581/RawTherapee/issues/4531

Mario Rettig wrote:

> Please add support for the Canon EOS M50 and the new Canon RAW file format.

I wouldn't hold my breath, honestly, i will be surprised if that happens this year.
It's completely new raw compression, and i'm not sure there are specs already.
I would convert to dng (!! and keep the originals for when it is finally supported !!).

> Attached RAW files are also available at raw.pixls.us

Ah, great, so there are two raw modes.
Can you attach the out-of-camera jpeg thumbnails for these images here, so i can at least validate the samples?

Also can you please check if different aspect ratios also produce different raw files?

#2 - 06/30/2018 08:31 AM - Mario Rettig

- File CanonEOSM50-EFM55mm-RAW-4in3.JPG added

- File CanonEOSM50-EFM55mm-RAW-16in9.JPG added

- File CanonEOSM50-EFM55mm-RAW-16in9.CR3 added

- File CanonEOSM50-EFM55mm-RAW-4in3.CR3 added

- File CanonEOSM50-EFM55mm-CRAW.JPG added

- File CanonEOSM50-EFM55mm-RAW.JPG added

> Can you attach the out-of-camera jpeg thumbnails for these images here, so i can at least validate the samples?

Done.

> Also can you please check if different aspect ratios also produce different raw files?

The file size is different. More files will follow.

#3 - 06/30/2018 10:11 AM - Roman Lebedev

Mario Rettig wrote:

> > Can you attach the out-of-camera jpeg thumbnails for these images here, so i can at least validate the samples?
>
> Done.
>
> > Also can you please check if different aspect ratios also produce different raw files?
>
> The file size is different. More files will follow.

Dang :(

Then can you please pick some single location, and take all the possible shots there,
rename the files appropriately, and upload **all** of them to RPU?
(yes, all, ignore any previous samples there.)

Based on https://www.canon.ie/cameras/eos-m50/specifications/ there are four crops:
RAW: (3:2) 6000 x 4000, (4:3) 5328 x 4000, (16:9) 6000 x 3368, (1:1) 4000 x 4000

So i want 8 images:

- 3:2, RAW
- 3:2, CRAW
- 4:3, RAW
- 4:3, CRAW
  and so on.

Please please take **all** the shots of the exact same static scene, *ideally* from tripod.

#4 - 07/01/2018 01:58 PM - Mario Rettig

I uploaded the 8 images to RPU, all 8 shots are from the exact same static scene taken from a tripod. I hope they will help better than the last samples.
The samples are named:

- Canon-EOS M50 -RAW (3:2).CR3
- Canon-EOS M50 -CRAW (3:2).CR3
  and so on.

#5 - 07/01/2018 07:07 PM - Roman Lebedev

Mario Rettig wrote:

> I uploaded the 8 images to RPU, all 8 shots are from the exact same static scene taken from a tripod. I hope they will help better than the last samples.
> The samples are named:
>
> - Canon-EOS M50 -RAW (3:2).CR3
> - Canon-EOS M50 -CRAW (3:2).CR3
>   and so on.

Thank you.

Though, it seems they did the sane thing all along, and the raws aren't cropped, since the filesizes are identical.
I'll take them all for now, but maybe will deduplicate later..

#6 - 07/06/2018 09:12 PM - Roman Lebedev

Roman Lebedev wrote:

> Mario Rettig wrote:

I have taken a look at those samples, and both of the modes seem to produce CRX-compressed images.
I was hoping the "RAW" mode would be still producing LJPEG's..

#7 - 07/23/2018 08:41 PM - Roman Lebedev

- Duplicated by Camera Support #12269: Canon M50 added

Files

CanonEOSM50-EFM55mm-RAW.CR3	32.8 MB	06/29/2018	Mario Rettig
CanonEOSM50-EFM55mm-CRAW.CR3	22.2 MB	06/29/2018	Mario Rettig
CanonEOSM50-EFM55mm-RAW.JPG	14 MB	06/30/2018	Mario Rettig
CanonEOSM50-EFM55mm-CRAW.JPG	14.6 MB	06/30/2018	Mario Rettig
CanonEOSM50-EFM55mm-RAW-4in3.CR3	32.8 MB	06/30/2018	Mario Rettig
CanonEOSM50-EFM55mm-RAW-4in3.JPG	9.75 MB	06/30/2018	Mario Rettig
CanonEOSM50-EFM55mm-RAW-16in9.CR3	32.8 MB	06/30/2018	Mario Rettig
CanonEOSM50-EFM55mm-RAW-16in9.JPG	9.43 MB	06/30/2018	Mario Rettig