

Use gphoto2 to Configure DSLR

Jun 2017

We can control the settings on our DSLR, again what can be controlled will vary between models. To get a list of items that can (maybe) control, you can use this command.

```
gphoto2 --list-config
```

Here is the listing that I get from my Canon EOS 700D.

```
/main/actions/uiunlock
/main/actions/syncdatetime
/main/actions/autofocusdrive
/main/actions/manualfocusdrive
/main/actions/eoszoom
/main/actions/eoszoomposition
/main/actions/eosviewfinder
/main/actions/eosremoterelease
/main/settings/datetime
/main/settings/reviewtime
/main/settings/output
/main/settings/movierecordtarget
/main/settings/ownername
/main/settings/artist
/main/settings/copyright
/main/settings/customfuncex
/main/settings/autopoweroff
/main/settings/capturetarget
/main/settings/capture
/main/status/serialnumber
/main/status/manufacturer
/main/status/cameramodel
/main/status/deviceversion
/main/status/vendorsextension
/main/status/model
/main/status/ptpversion
/main/status/batterylevel
/main/status/lensname
/main/status/eosserialnumber
/main/status/shuttercounter
/main/status/availableshots
/main/imgsettings/imageformat
/main/imgsettings/imageformatsd
/main/imgsettings/iso
/main/imgsettings/whitebalance
/main/imgsettings/colortemperature
/main/imgsettings/whitebalanceadjusta
/main/imgsettings/whitebalanceadjustb
/main/imgsettings/whitebalancexa
/main/imgsettings/whitebalancexb
/main/imgsettings/colospace
/main/capturesettings/autoexposuremode
/main/capturesettings/drivemode
/main/capturesettings/picturestyle
/main/capturesettings/aperture
/main/capturesettings/shutterspeed
/main/capturesettings/bracketmode
/main/other/d402
/main/other/d407
/main/other/d406
/main/other/d303
/main/other/5001
```

So for example, in this list we can see a setting entitled `/main/capturesettings/aperture` which indicates we can control the aperture on this

DSLR.

To see what the possible values for `/main/capturesettings/aperture` that `gphoto2` supports, we can use the following syntax.

```
gphoto2 --get-config /main/capturesettings/aperture
```

The 700D DSLR I am using returns the following:

```
Label: Aperture
Type: RADIO
Current: 4.5
Choice: 0 4.5
Choice: 1 5.6
Choice: 2 6.7
Choice: 3 8
Choice: 4 9.5
Choice: 5 11
Choice: 6 13
Choice: 7 16
Choice: 8 19
Choice: 9 22
```

So we can see that the current aperture is 4.5 (probably due to the lens I am using) and we have a choice to select one of the others, lets try to set the aperture to F11.

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Last update: **2023/03/09 22:35**

