

Running gphoto2

You can launch gphoto2 from the command line, just enter

```
gphoto2
```

Now because you didn't specify any parameters, **gphoto2** will show you a list of available commands.

```
Usage: gphoto2 [-?valLnPTDR] [-?|--help] [--usage] [--debug] [--debug-logfile=FILENAME] [--quiet]
      [--hook-script=FILENAME] [--stdout] [--stdout-size] [--auto-detect] [--show-exif=STRING]
      [--show-info=STRING] [--summary] [--manual] [--about] [--storage-info] [--shell]
      [-v|--version] [--list-cameras] [--list-ports] [-a|--abilities] [--port=FILENAME]
      [--speed=SPEED] [--camera=MODEL] [--usbid=USBIDs] [--config] [--list-config]
      [--list-all-config] [--get-config=STRING] [--set-config=STRING] [--set-config-index=STRING]
      [--set-config-value=STRING] [--reset] [--keep] [--no-keep] [--wait-event=COUNT]
      [--wait-event-and-download=COUNT] [--capture-preview] [-B|--bulb=SECONDS] [-F|--frames=COUNT]
      [-I|--interval=SECONDS] [--reset-interval] [--capture-image] [--trigger-capture]
      [--capture-image-and-download] [--capture-movie=COUNT or SECONDS] [--capture-sound]
      [--capture-tethered=COUNT] [--trigger-capture] [-l|--list-folders] [-L|--list-files]
      [-m|--mkdir=DIRNAME] [-r|--rmdir=DIRNAME] [-n|--num-files] [-p|--get-file=RANGE]
      [-P|--get-all-files] [-t|--get-thumbnail=RANGE] [-T|--get-all-thumbnails] [--get-metadata=RANGE]
      [--get-all-metadata] [--upload-metadata=STRING] [--get-raw-data=RANGE] [--get-all-raw-data]
      [--get-audio-data=RANGE] [--get-all-audio-data] [-d|--delete-file=RANGE] [-D|--delete-all-files]
      [-u|--upload-file=FILENAME] [--filename=FILENAME_PATTERN] [-f|--folder=FOLDER] [-R|--recurse]
      [--no-recurse] [--new] [--force-overwrite] [--skip-existing]
```

Or you can use the following for a better description of each command:

```
gphoto2 --help
```

This will give the following output:

```
Usage: gphoto2 [OPTION...]

Common options
  -?, --help                Print complete help message on program usage
  --usage                   Print short message on program usage
  --debug                   Turn on debugging
  --debug-logfile=FILENAME Name of file to write debug info to
  --quiet                   Quiet output (default=verbose)
  --hook-script=FILENAME    Hook script to call after downloads, captures, etc.

Miscellaneous options (unsorted)
  --stdout                  Send file to stdout
  --stdout-size             Print filesize before data
  --auto-detect             List auto-detected cameras
  --show-exif=STRING        Show EXIF information
  --show-info=STRING        Show info
  --summary                 Show summary
  --manual                  Show camera driver manual
  --about                   About the camera driver manual
  --storage-info            Show storage information
  --shell                   gPhoto shell

Get information on software and host system (not from the camera)
  -v, --version             Display version and exit
  --list-cameras            List supported camera models
  --list-ports              List supported port devices
  -a, --abilities           Display camera/driver abilities

Specify the camera to use
  --port=FILENAME           Specify device port
  --speed=SPEED             Specify serial transfer speed
  --camera=MODEL            Specify camera model
  --usbid=USBIDs            (expert only) Override USB IDs
```

Camera and software configuration

--config	Configure
--list-config	List configuration tree
--list-all-config	Dump full configuration tree
--get-config=STRING	Get configuration value
--set-config=STRING	Set configuration value or index in choices
--set-config-index=STRING	Set configuration value index in choices
--set-config-value=STRING	Set configuration value
--reset	Reset device port

Capture an image from or on the camera

--keep	Keep images on camera after capturing
--no-keep	Remove images from camera after capturing
--wait-event[=COUNT]	Wait for event(s) from camera
--wait-event-and-download[=COUNT]	Wait for event(s) from the camera and download new images
--capture-preview	Capture a quick preview
-B, --bulb=SECONDS	Set bulb exposure time in seconds
-F, --frames=COUNT	Set number of frames to capture (default=infinite)
-I, --interval=SECONDS	Set capture interval in seconds
--reset-interval	Reset capture interval on signal (default=no)
--capture-image	Capture an image
--trigger-capture	Trigger capture of an image
--capture-image-and-download	Capture an image and download it
--capture-movie[=COUNT or SECONDS]	Capture a movie
--capture-sound	Capture an audio clip
--capture-tethered[=COUNT]	Wait for shutter release on the camera and download
--trigger-capture	Trigger image capture

Downloading, uploading and manipulating files

-l, --list-folders	List folders in folder
-L, --list-files	List files in folder
-m, --mkdir=DIRNAME	Create a directory
-r, --rmdir=DIRNAME	Remove a directory
-n, --num-files	Display number of files
-p, --get-file=RANGE	Get files given in range
-P, --get-all-files	Get all files from folder
-t, --get-thumbnail=RANGE	Get thumbnails given in range
-T, --get-all-thumbnails	Get all thumbnails from folder
--get-metadata=RANGE	Get metadata given in range
--get-all-metadata	Get all metadata from folder
--upload-metadata=STRING	Upload metadata for file
--get-raw-data=RANGE	Get raw data given in range
--get-all-raw-data	Get all raw data from folder
--get-audio-data=RANGE	Get audio data given in range
--get-all-audio-data	Get all audio data from folder
-d, --delete-file=RANGE	Delete files given in range
-D, --delete-all-files	Delete all files in folder (--no-recurse by default)
-u, --upload-file=FILENAME	Upload a file to camera
--filename=FILENAME_PATTERN	Specify a filename or filename pattern
-f, --folder=FOLDER	Specify camera folder (default="/")
-R, --recurse	Recursion (default for download)
--no-recurse	No recursion (default for deletion)
--new	Process new files only
--force-overwrite	Overwrite files without asking
--skip-existing	Skip existing files

The first thing we need to do with **gphoto2** is to check that we can detect the make and model of our camera, if this part fails, then it is likely that your camera is not supported. If you have a particularly old DSLR (actually, **gphoto2** works with cameras other than DSLRs) then you might not get any support, or only limited support.

So for instance, my 12 ish year old Canon 300D is supported (yay) and here is what is supported:

```
Canon EOS 300D (normal mode)  Image Capture, Liveview, Configuration
Canon EOS 300D (PTP mode)
```

On the other hand, I would expect that any body I, or anyone else buys this year, will have to wait for some support to be added.

There is a list of supported models available at this url: <http://gphoto.org/proj/libgphoto2/support.php>

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