

FotoBox for Raspberry Pi, Linux and macOS

FotoBox is a free open source multi platform application, that offers you the possibility to operate a photo booth (photobooth).

features

- support a variety of different [DSLR camera models](#)
- trigger photos directly or start a countdown by touching, clicking the screen, using soft-/hardware buttons, pressing keyboard shortcuts or using a presenter
- lightning fast and low-memory Linux / macOS customizable application

Linux installation

Paste the commands in a terminal prompt.

1. update your operating system: `sudo apt-get update && sudo apt-get upgrade && sudo apt-get dist-upgrade`
2. download and install Qt: `sudo apt-get install qt5-default`
3. install [gPhoto2](#) when you are using a DSLR camera
 - **recommended way:** use [gPhoto2 and libgphoto2 compiler and installer script](#) to get latest version, make sure the default installed has been removed: `sudo apt-get purge gphoto2 libgphoto2-6`

- use latest available gphoto2 provided from operating system: `sudo apt-get install gphoto2`
4. download latest **FotoBox** version [here](#) (according to your operating system)

optional steps

- *Raspberry Pi:* [Setting up](#) your [Raspberry Pi Model >=2](#) with latest Raspbian version (Buster). If you are using the official [Camera Module V2](#) follow the [activate Raspberry Pi Camera](#) tutorial.
- *Disable the screen saver:* `sudo apt-get install xscreensaver`, run `xhost +localhost` from a local terminal session (not SSH) and reboot the system. After reboot you can launch the 'Screensaver' application and select 'disable screen saver' from the drop down.
- *Autostart:* open autostart file with `sudo nano /etc/xdg/lxsession/LXDE-pi/autostart` add this line `@/home/pi/Downloads/FotoBox` (**adjust path if necessary**) at the end of the file.
- *Using a button:* It's possible to connect a hardware button to the Raspberry Pi GPIO ([WiringPi](#)) pins to trigger the FotoBox. You can configure [dedicated pins](#) in the application or use the default ones:



macOS installation

1. follow the short instruction to install [Homebrew - The missing package manager for macOS](#)
2. use Homebrew to install gphoto2. Paste that in a macOS Terminal prompt: `brew install gphoto2`
3. download latest **FotoBox** version [here](#)

keyboard shortcuts

key	action
N , Enter , Page Up/Down , Arrow Keys , Space , Backspace	start FotoBox
P , S , E	preference dialog
Shift + Escape , Q	quit application

Frequently Asked Questions

Q: I have misconfigured FotoBox and now it isn't working properly anymore?

A: Start FotoBox application and press “Restore Defaults” button to load the default settings.

Q: Is my DSLR camera supported by FotoBox?

A: Visit website [libgphoto2 supported cameras](#) to check if your camera model is listed and supports *Image Capture*. Use [gPhoto2 and libgphoto2 compiler and installer script](#) to get latest version and make sure the OS default one has been removed: `sudo apt-get purge gphoto2 libgphoto2-6`

Q: Can I use the FotoBox on Linux without X Window System (e.g. using Linux framebuffer on Raspbian Lite)?

A: Yes, that is possible because of [Qt for Embedded Linux](#). For Example to use Linux framebuffer execute `./FotoBox -platform linuxfb:fb=/dev/fb0` or set environment variable `QT_QPA_PLATFORM=linuxfb:fb=/dev/fb0`

Q: My DSLR camera model is supported by libgphoto2 but don't work with FotoBox. How can I fix it?

A: Test if gphoto2 has access to your camera. Execute this command `gphoto2 --capture-image-and-download` in terminal to test it. If the error message *'gphoto2 could not claim the usb device'* appears, try this fix:

1. get the C code [here](#)
2. save it to a file named `usbreset.c`
3. execute `cc usbreset.c -o usbreset` to compile it
4. execute `lsusb` to get the Bus/Device ID of your camera, i.e.

'Bus 001 Device 008'

5. execute `sudo ./usbreset /dev/bus/usb/001/008` each time before running FotoBox

Q: Where can I report FotoBox software bugs or suggest new features?

A: [GitLab issue tracker](#)

Q: Where can I get FotoBox support?

A: [German Raspberry Pi Forum](#) or official [Raspberry Pi Forum](#) (english)

development

Follow the normal installation instructions and additionally install the development tools according to your operating system. Paste the commands in a terminal prompt.

Linux (Debian, Raspbian, Ubuntu)

- install Linux development tools: `sudo apt-get install build-essential ccache wiringpi`
- install Qt development tools: `sudo apt-get install qttools5-dev-tools qttools5-dev qtdeclarative5-dev qtcreator qt5-doc`
- install git with tools: `sudo apt-get install git git-doc git-gui gitk`
- *optional tools:* `sudo apt-get install cmake doxygen doxygen-doc doxygen-gui graphviz`

macOS

- install macOS development tools: `xcode-select --install`
- install Qt development tools: `brew install qt && brew link --force qt && brew cask install qt-creator`
- *optional tools*: `brew install cmake && brew install doxygen`

get source code

GitLab source code: `git clone --recursive`
`git@gitlab.com:tomikais/fotobox.git` or
`https://gitlab.com/tomikais/fotobox.git`