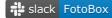
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## FotoBox for Raspberry Pi, Linux and macOS build canceled

pipeline passed slack FotoBox



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

### Raspberry Pi OS Bullseye installation

Download latest FotoBox version according to your operating system. Extract all files and execute sudo ./install\_dependencies.sh in a terminal to install all needed dependencies automatically or follow these manual steps:

- 1. update your operating system: sudo apt-get update && sudo apt-get upgrade && sudo apt-get dist-upgrade
- 2. install gPhoto2 when you are using a DSLR camera
  - beginners: use latest available gphoto2 provided from operating system: sudo apt-get install gphoto2
  - advanced (latest version): use gPhoto2 and libgphoto2 compiler and installer script to get latest version and make sure the default installed has been removed: sudo apt-get purge gphoto2 libgphoto2-6

#### optional steps

- Raspberry Pi: Setting up your Raspberry Pi Model >= 2 with latest Raspberry Pi OS version (Bullseye). If you are using the official Camera Module V2 follow the official 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 buzzer: It's possible to connect a hardware buzzer to the Raspberry Pi General Purpose Input Outputs (GPIO) pins to trigger the FotoBox. Please install pigpio library: sudo apt-get install pigpio

FotoBox needs to connect to the pigpio deamon. To enable deamon on boot (autostart): sudo systemctl enable pigpiod && sudo systemctl start pigpiod You can set your pin in the FotoBox application. Please note the GPIO pin mapping.

#### macOS installation

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- 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

### 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 Raspberry Pi OS 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: It shows me the following error message qt.qpa.plugin: Could not load the Qt platform plugin "xcb" in "" even though it was found. (Qt 6 issue)

A: Please install the following packages by executing sudo apt-get install libxcb-xinerama0 libgl1-mesa-dev libvulkan-dev libxcb-xinput-dev libxcb-xinerama0-dev

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)

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# development Doxygen documentation

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, Ubuntu)

- install Linux development tools: sudo apt-get install build-essential ccache pigpio
- install Qt development tools: sudo apt-get install qtbase5-dev qtcreator
- 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 git@gitlab.com:tomikais/fotobox.git or https://gitlab.com/tomikais/fotobox.git