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 lates 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: 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 from: http://marc.info/?l=linux-usb&m=121459435621262&q=p3
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, Raspbian, Ubuntu)

- install Linux development tools: `sudo apt-get install build-essential ccache`
- 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`