REF:

https://stackoverflow.com/questions/31617575/how-to-use-usb-camera-in-qemu

[How to use usb camera in qemu?](https://stackoverflow.com/questions/31617575/how-to-use-usb-camera-in-qemu)

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Asked 5 years, 8 months ago

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I am new in using the emulator qemu and I'm trying to make use of it to emulate the raspbian system, which is used in the raspberry pi, but I do not know how to use my camera usb in it. Could anyone help me ?

## **2 Answers**

[Active](https://stackoverflow.com/questions/31617575/how-to-use-usb-camera-in-qemu?answertab=active#tab-top)[Oldest](https://stackoverflow.com/questions/31617575/how-to-use-usb-camera-in-qemu?answertab=oldest#tab-top)[Votes](https://stackoverflow.com/questions/31617575/how-to-use-usb-camera-in-qemu?answertab=votes#tab-top)

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As of **October 2019** we now have Qemu 4.1.0 and -usbdevice in [goe's answer](https://stackoverflow.com/a/34399643/5499166) is **deprecated**.

So, the advice is to use the new option -device usb... and probably your camera is high-speed so you must use usb-ehci, otherwise you'll get a speed mismatch error.

That said, I launch a VM with the integrated Webcam from my laptop with:

qemu-system-x86\_64 -enable-kvm -m 2048 -rtc base=localtime -hda /path/win7.img -cpu host -soundhw hda -usb -device usb-ehci,id=ehci -device usb-host,hostbus=1,hostaddr=3

hostbus=1,hostaddr=3 is from:

lsusb

...

Bus 001 Device 003: ID 0408:2fb1 Quanta Computer, Inc.

...

and I know that from:

sudo dmesg |grep -i webcam

...

[ 5594.955703] uvcvideo: Found UVC 1.00 device Laptop\_Integrated\_Webcam\_2HDM (0408:2fb1)

...

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To include the usb device, you can use the option '-usbdevice' and include the location of the device bus. The full option could be something similar to this:

qemu-system-arm -M versatilepb ... -usbdevice host:5.4

The host address definition (I mean, the numbers after 'host:') could be found with 'lsusb' command. In the list given by 'lsusb' you have to find the device to be shared. For example:

$ lsusb

Bus 002 Device 002: ID 8087:8000 Intel Corp.

Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

Bus 008 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 007 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

Bus 006 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 005 Device 003: ID 046d:0805 Logitech, Inc. Webcam C300

Bus 005 Device 004: ID 046d:082d Logitech, Inc. HD Pro Webcam C920

Bus 005 Device 002: ID 2109:3431

Bus 005 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

Bus 001 Device 002: ID 8087:8008 Intel Corp.

Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 003 Device 002: ID 046d:c31c Logitech, Inc. Keyboard K120 for Business

Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

In the previous example, the device I wanted to share is the 'Logitech, Inc. HD Pro Webcam C920' camera, and as you can see in the corresponding line, the bus and device values are defined there (5 and 4 respectively).