

Image Deblurring Demo

Images that are blurry can be deblurred using advanced filtering techniques. The basic idea is that the deblurring algorithm estimates the amount and direction of the motion that caused the blur in the input image. Using that information, the original image can be de-blurred. **Note:** this application does not require a video camera. Instead, a blurry input image is supplied in the demos directory (`blurry_license_plate.png`).

1. On the STEM-Kit, open a command terminal window and change directory to demos

```
pi@raspberrypi:~ $ cd demos
pi@raspberrypi:~/demos $
```

2. Execute the demo script as shown below. After the command prompt [`$`] type the following:

```
~/demos $ python module-3-demo-image-deblurring.py
```

3. After a few seconds the script will launch a window with an image of a blurry license plate.
4. After you have studied the image see if you can read the plate.
5. Type any key on the keyboard to process the image.
6. After a few seconds the de-blurred image will be displayed that is clearly readable.
7. To exit the program, select the any key on the keyboard.



`blurry_license_plate.png`