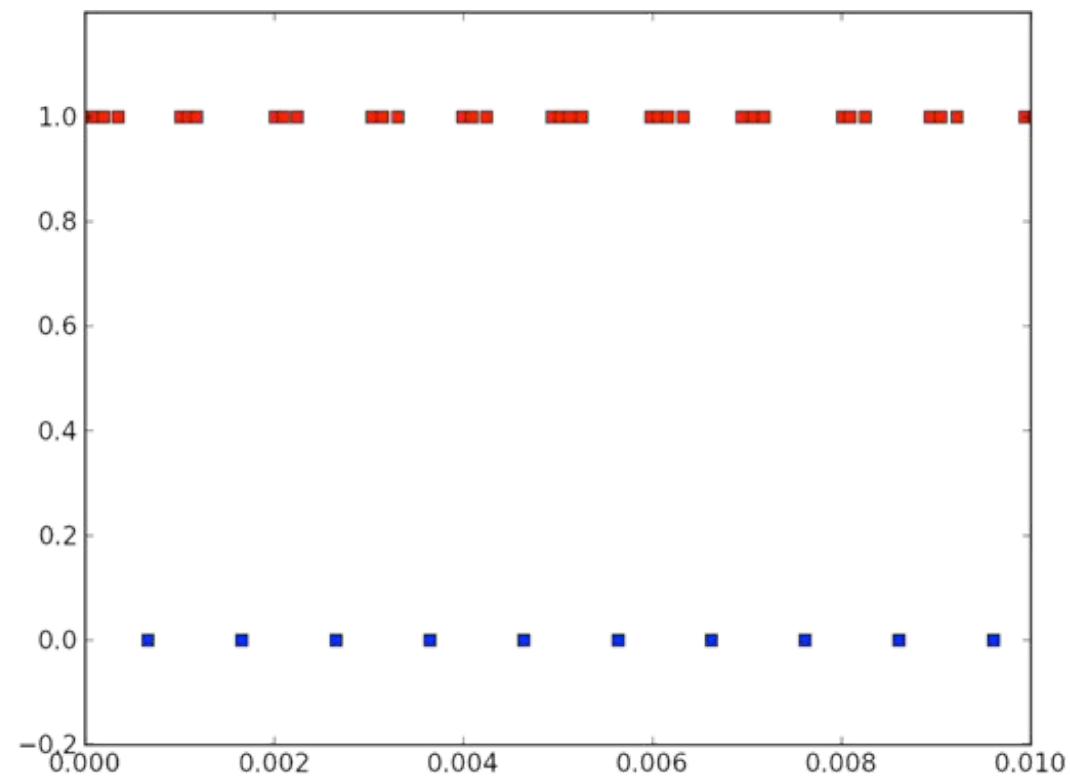
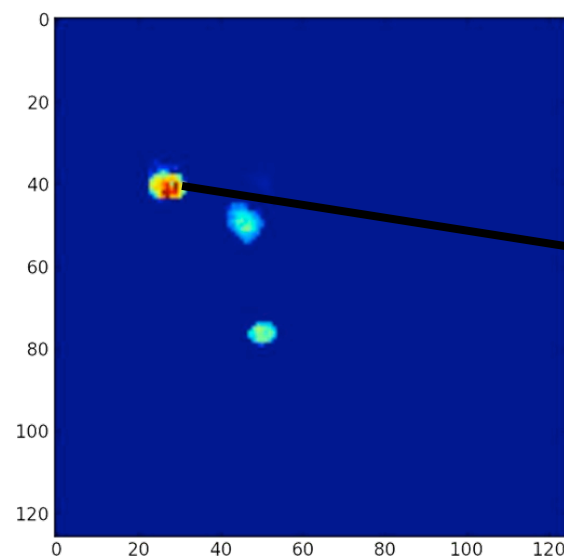


- This is how the events of a single pixel look like:



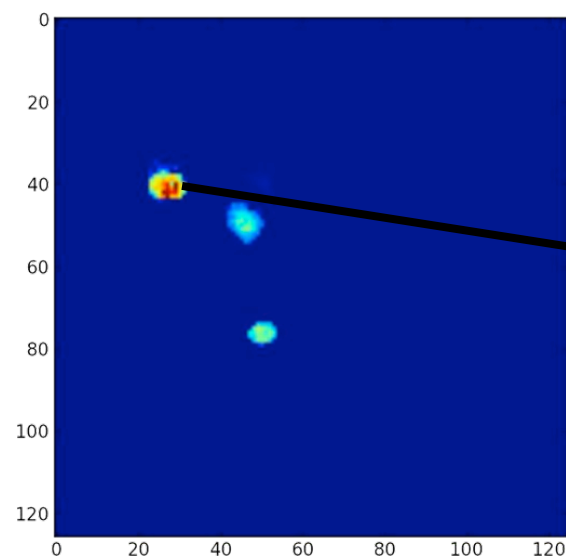
**+ : noisy**

**- : repeatable**

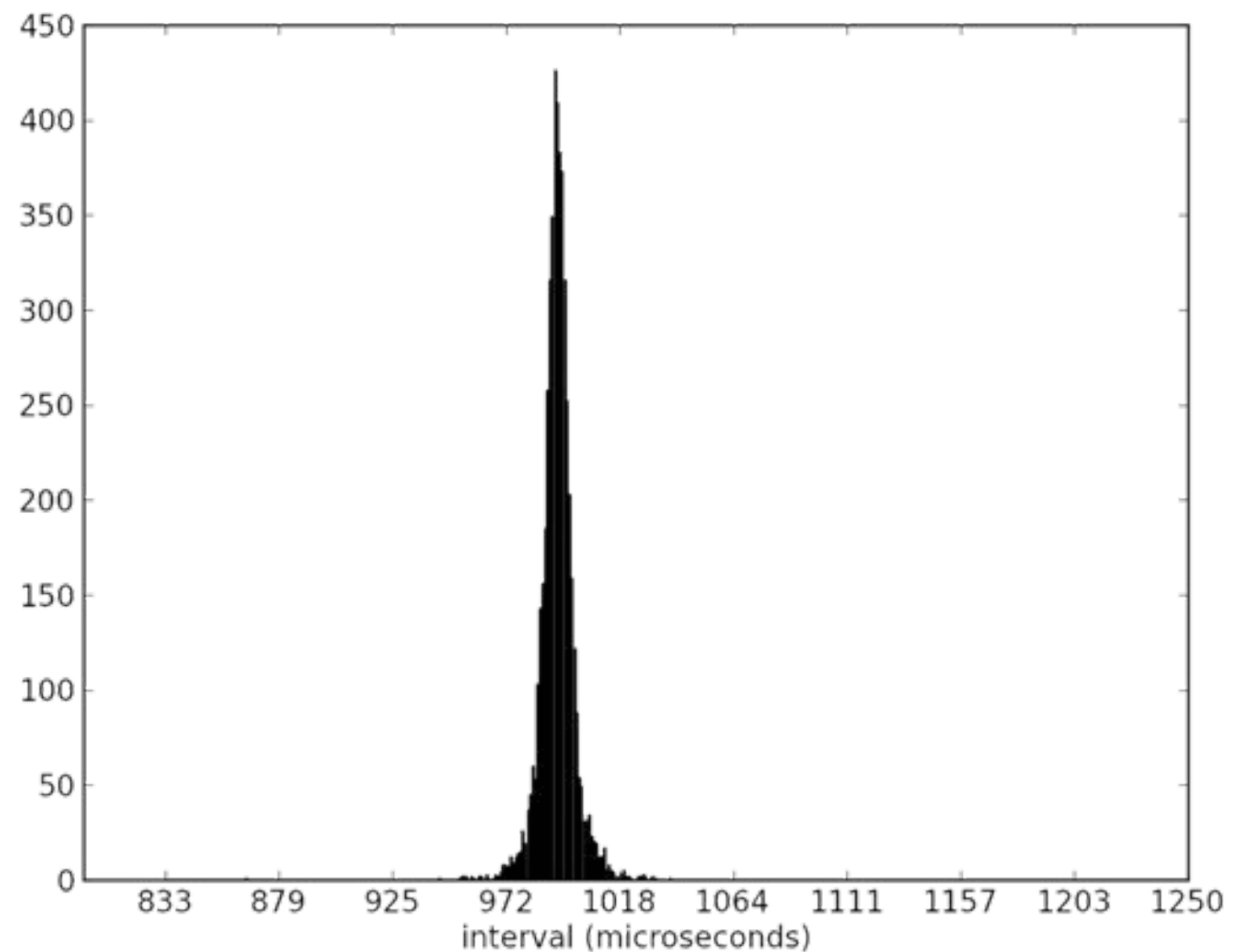
- Exercise: figure out the transfer function of led \* photoreceptors.

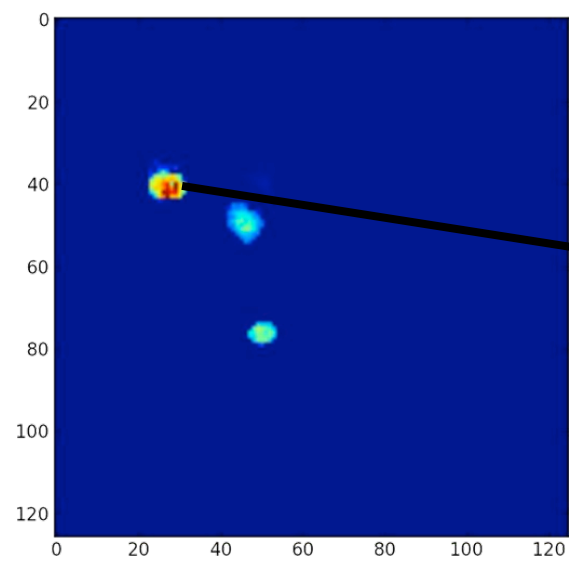
# Precision/repeatability

- Precision of LED \* photoreceptor \* buffers \* ...

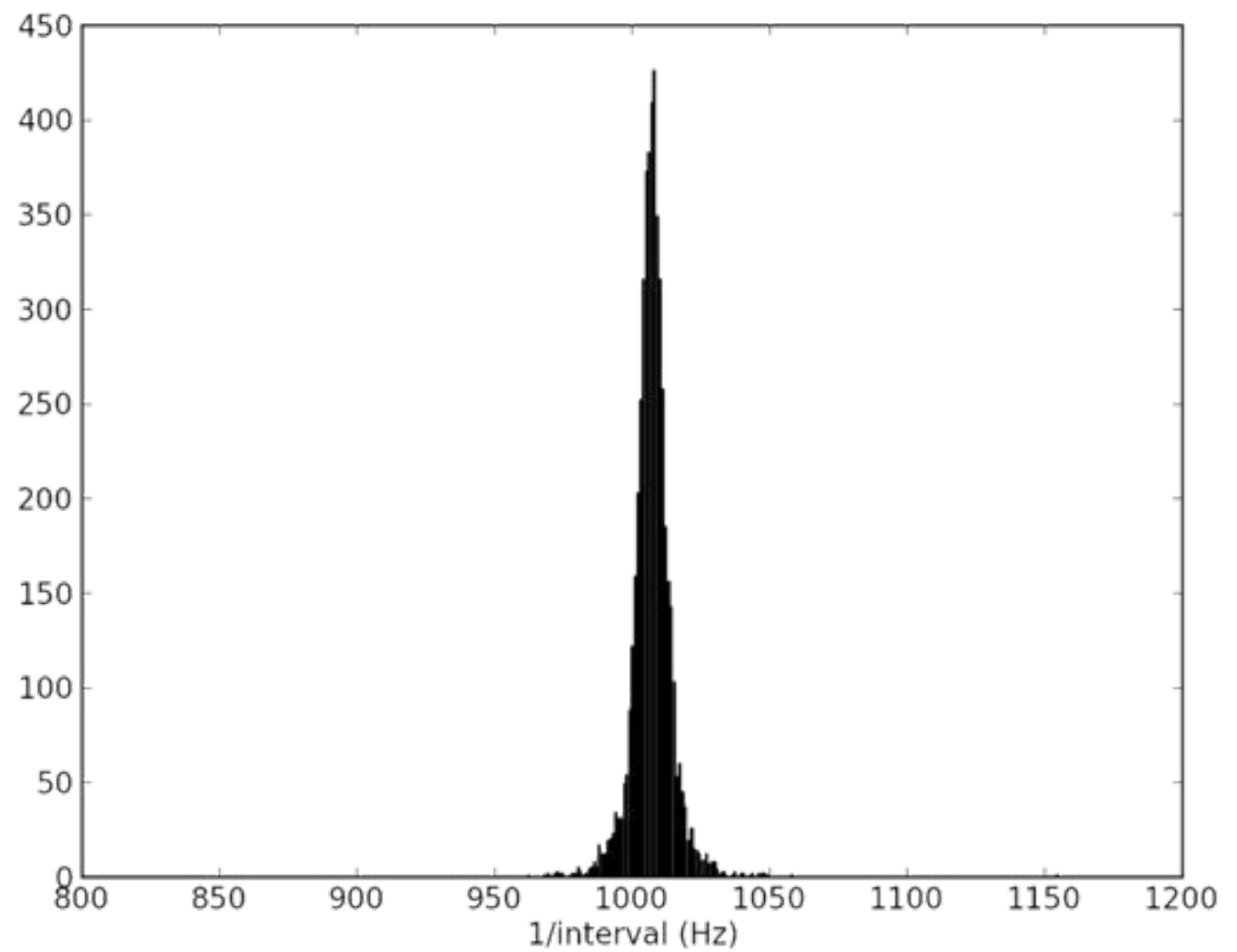


*interval between successive “-”  
(ignoring “+” completely)*



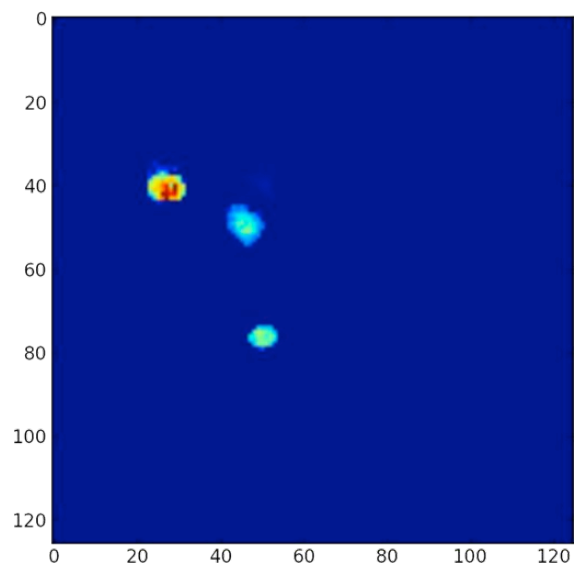


*interval between successive “-”  
(ignoring “+” completely)*

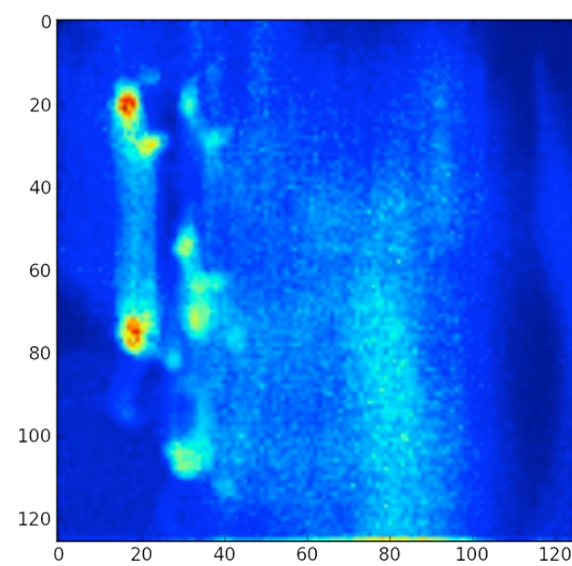


- Frequency between successive “-” signals, averaged over all pixels.

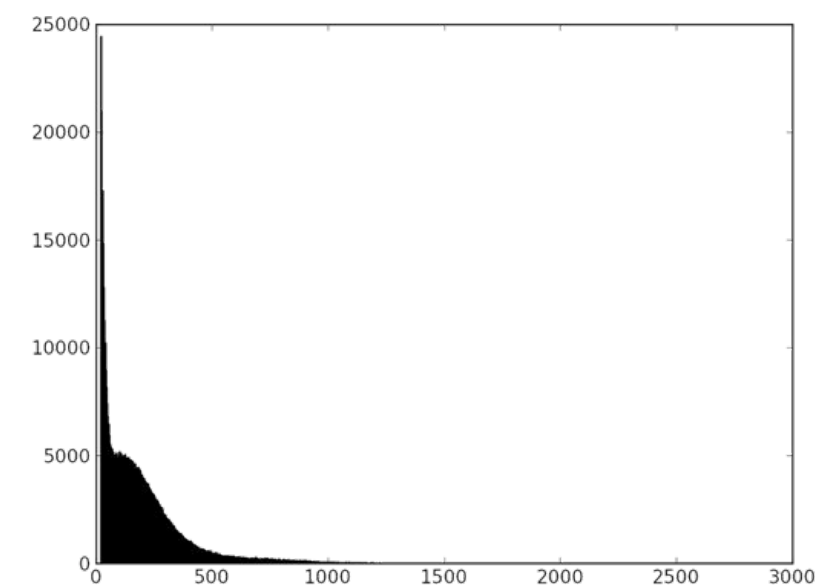
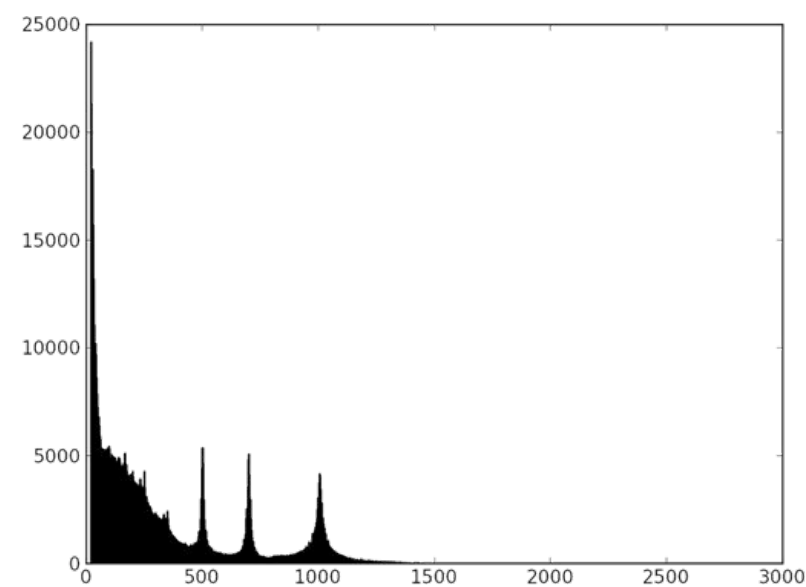
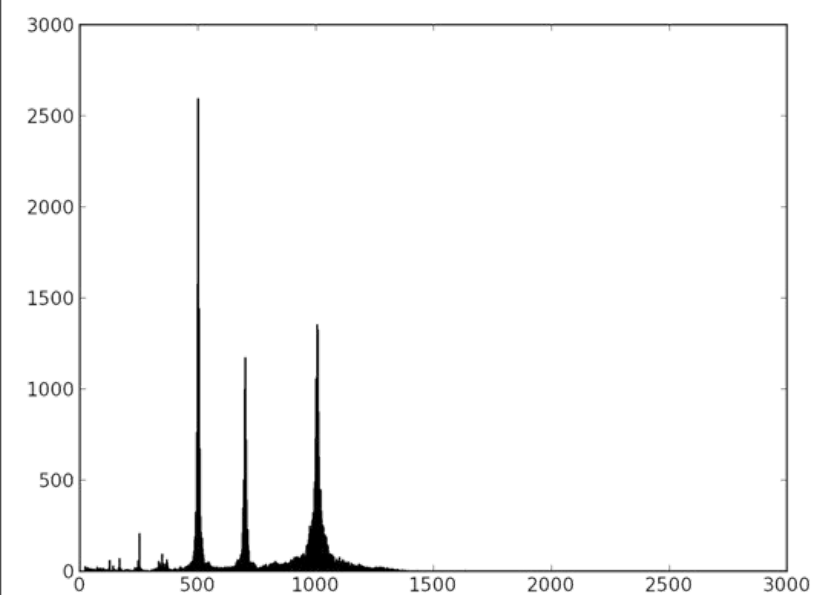
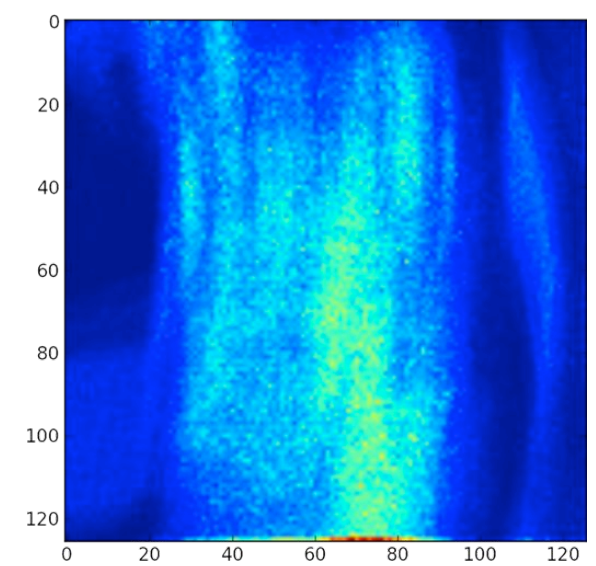
**led, static**



**led, motion**

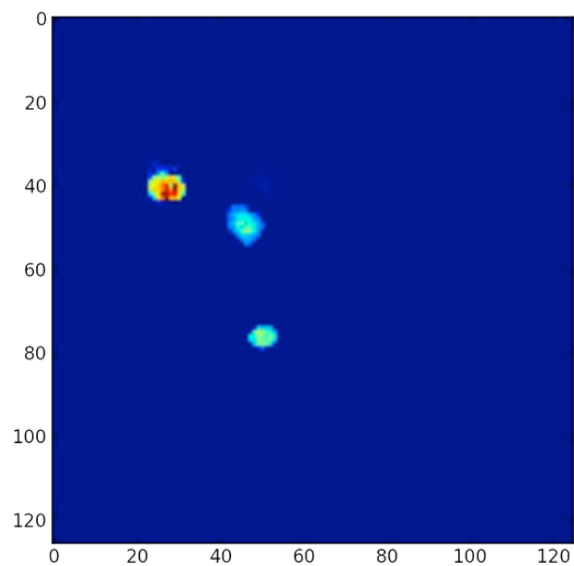


**no led, motion**

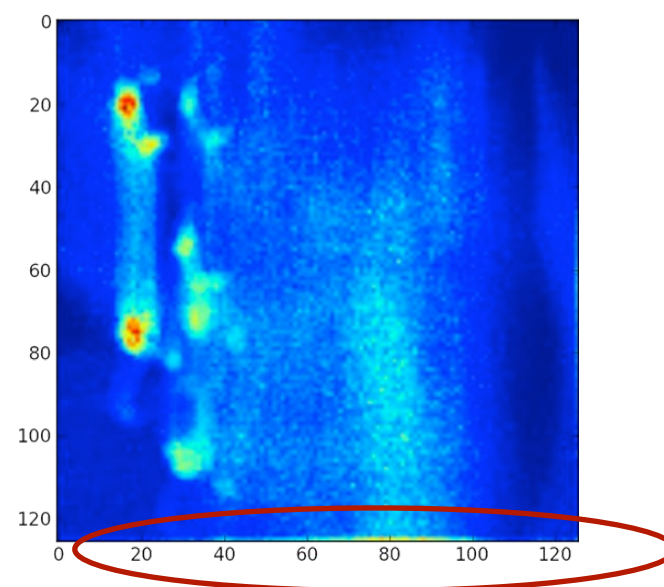


- Frequency between successive “-” signals, averaged over all pixels.

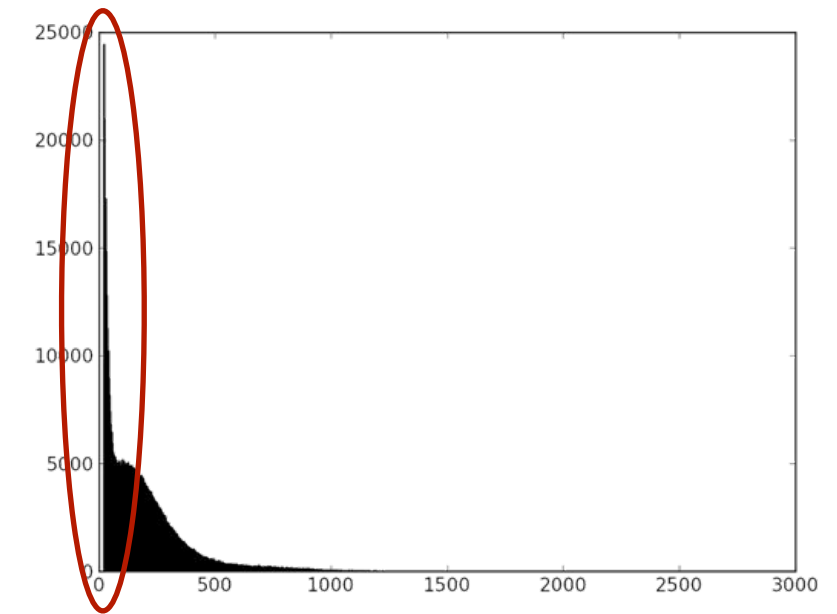
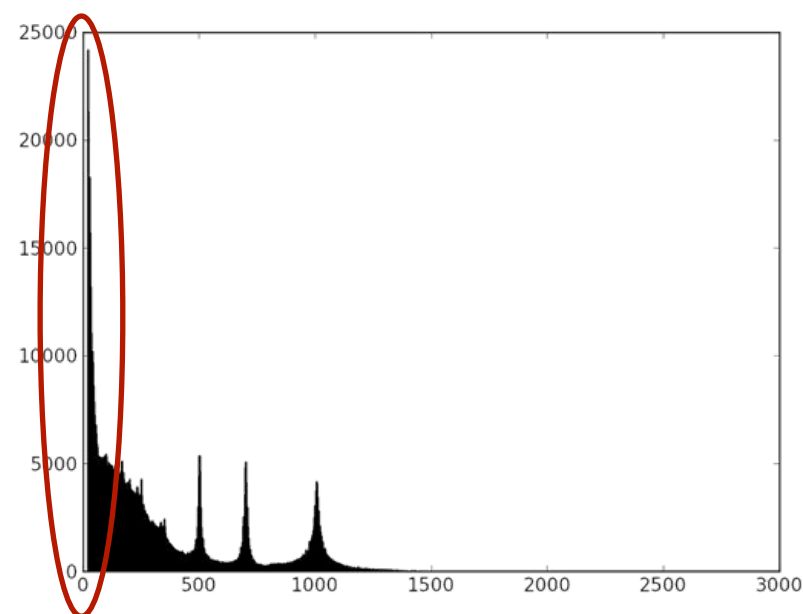
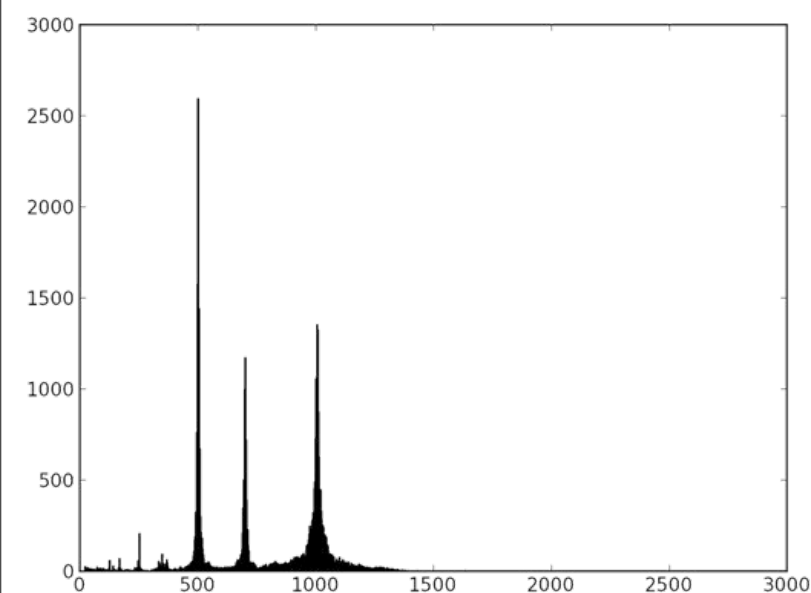
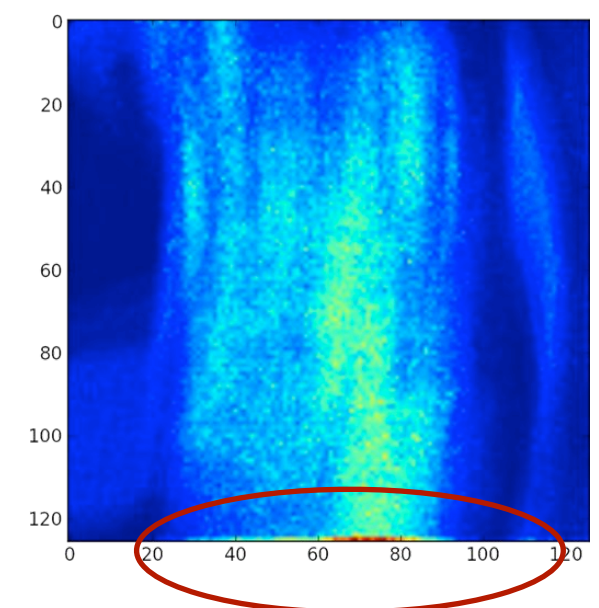
**led, static**



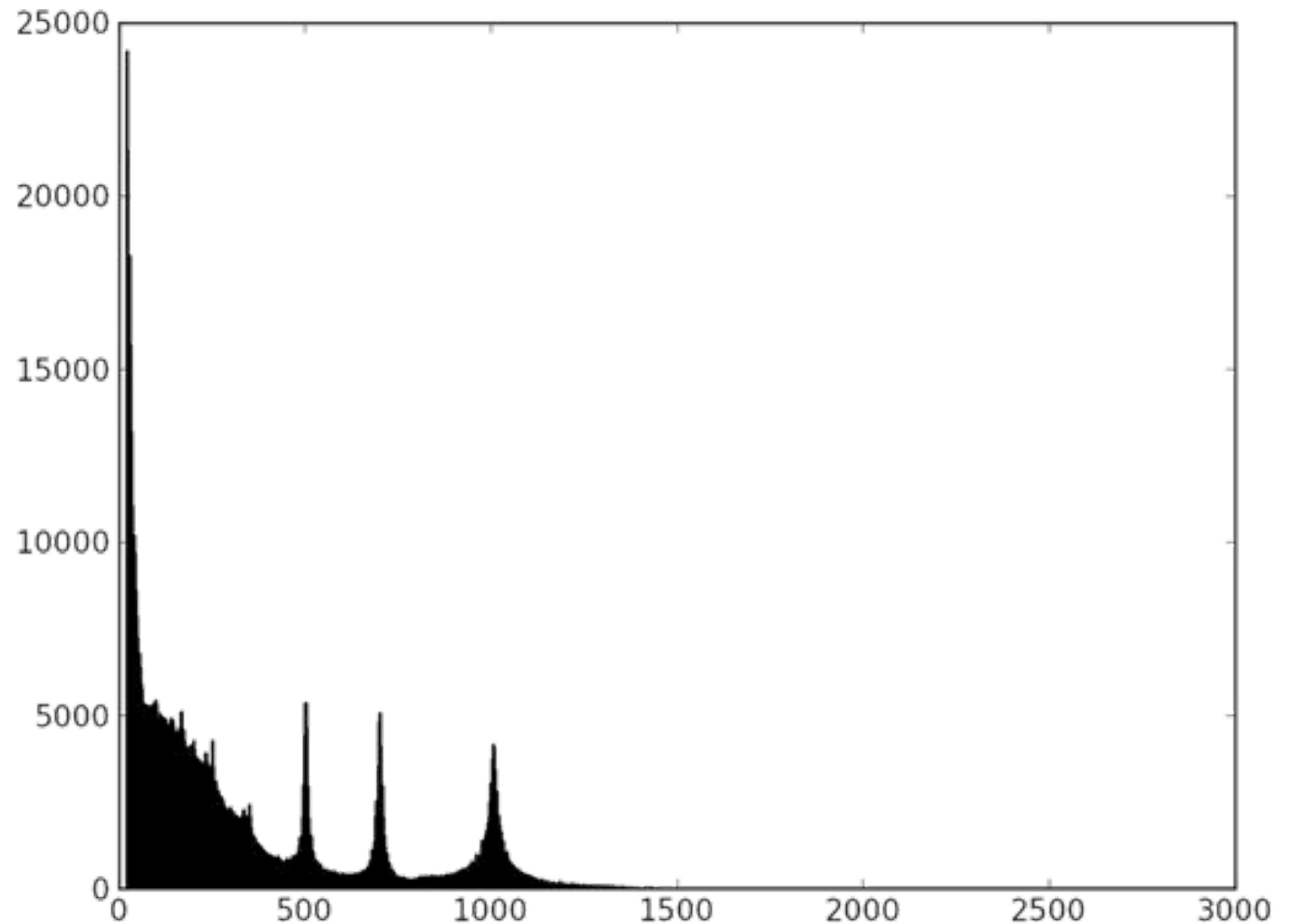
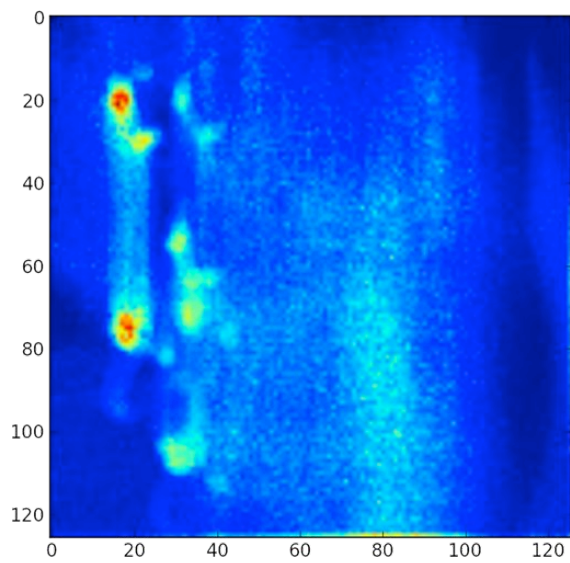
**led, motion**



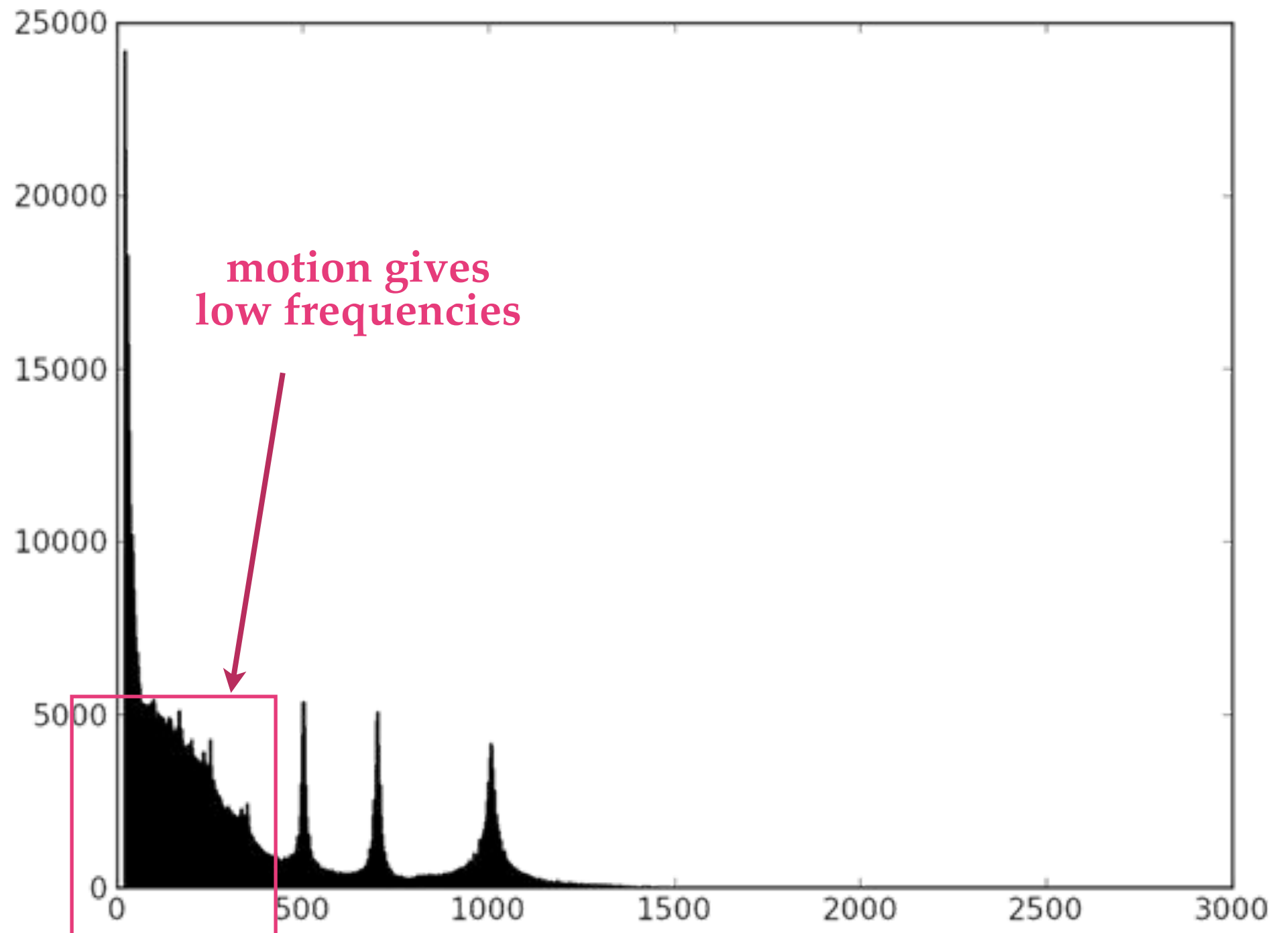
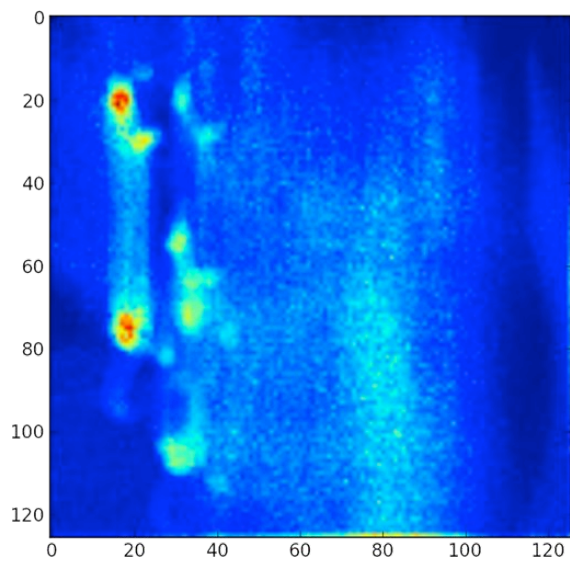
**no led, motion**



- Looks like the frequencies can be recovered with very simple clustering.



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