

IP Cameras

Victoria Raspberry PiMakers & Others

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IP Cameras: Surveillance



What / Why IP Cameras

Accessible through network - TCP/IP

Why do we use them?

- cannot be present physically
- cannot be present all the time

IP Cameras are really time & space machines



SV3C SV-B01-1080PL Bullet POE Camera

<http://www.sv3c.com/POE-IP-Camera.html>

<https://www.amazon.com/gp/product/B01G1U4MVA>



SV3C SV-B01-1080PL Bullet POE Camera



SV3C SV-B01-1080PL Bullet POE Camera



CAR PORT

2018/01/25 18:38:38

2018-01-25
18:38:40-01

SV3C SV-B01-1080PL Bullet POE Camera

Home Media Parameters System [Download Player](#) | [Logout](#)

Camera

- Video ▶
- Image ▶
- OSD ▶**

OSD Options

Time Stamp: On Off

Camera Name: On Off

Font Size: ▼

Name:



D-Link DCS-930L

<http://support.dlink.ca/ProductInfo.aspx?m=DCS-930L>

<https://www.amazon.com/gp/product/B00452V66G/>



Foscam FI8918W

<https://www.foscam.com/product/9.html>

<https://www.amazon.com/gp/product/B0046710G6/>



Other cameras

- Raspberry Pi Camera V2 – 8MP
- USB



IP Cameras: What to look for

- web server for viewing & configuration
 - pull out video stream and/or individual jpeg
 - check reviews/comments for compatibility with Blueiris, Ispy, Zoneminder
- ~~mobile app~~
 - view feed and configure without app
- ~~features: upload, notify, etc~~
 - security risks
- night vision / IR LEDs
- cheaper than RPi
- weather-proof package



In practice

- installation
 - cables: power / network (PoE)
 - network: wireless / ethernet
 - IR LEDs cannot be covered
- additional utilities
 - rotate config files
 - change contrast on webcam
- security
 - turn off all features
- configuration
 - deal with daily deluge of images
 - cars reflect light, shadows / clouds
- legal



Bright sun



CAR PORT

2018-01-14
14:03:57-01

Headlights



Bug trails



CAR FORT

2018-01-23
19:35:02-00

Software options

- **motion:** <https://motion-project.github.io>
 - **motioneye:** <https://github.com/ccrisan/motioneye>
 - **motioneyeOS:** <https://github.com/ccrisan/motioneyeos>
- **zone minder:** <https://zoneminder.com>
 - **RPi-Cam-Web-Interface:** <https://elinux.org/RPi-Cam-Web-Interface>
- **Kerberos.io** <https://kerberos.io>
- **openCV:** <https://opencv.org> (build your own)

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