IP Cameras

Victoria Raspberry Pi Makers & Others

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IP Cameras: Surveillance

Why IP Cameras

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

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D-Link DCS-930L

http://support.dlink.ca/ProductInfo.aspx?m=DCS-930L
https://www.amazon.com/gp/product/B00452V66G/

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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

JUST INCASE

THE OTHER 20 GETS HACKED

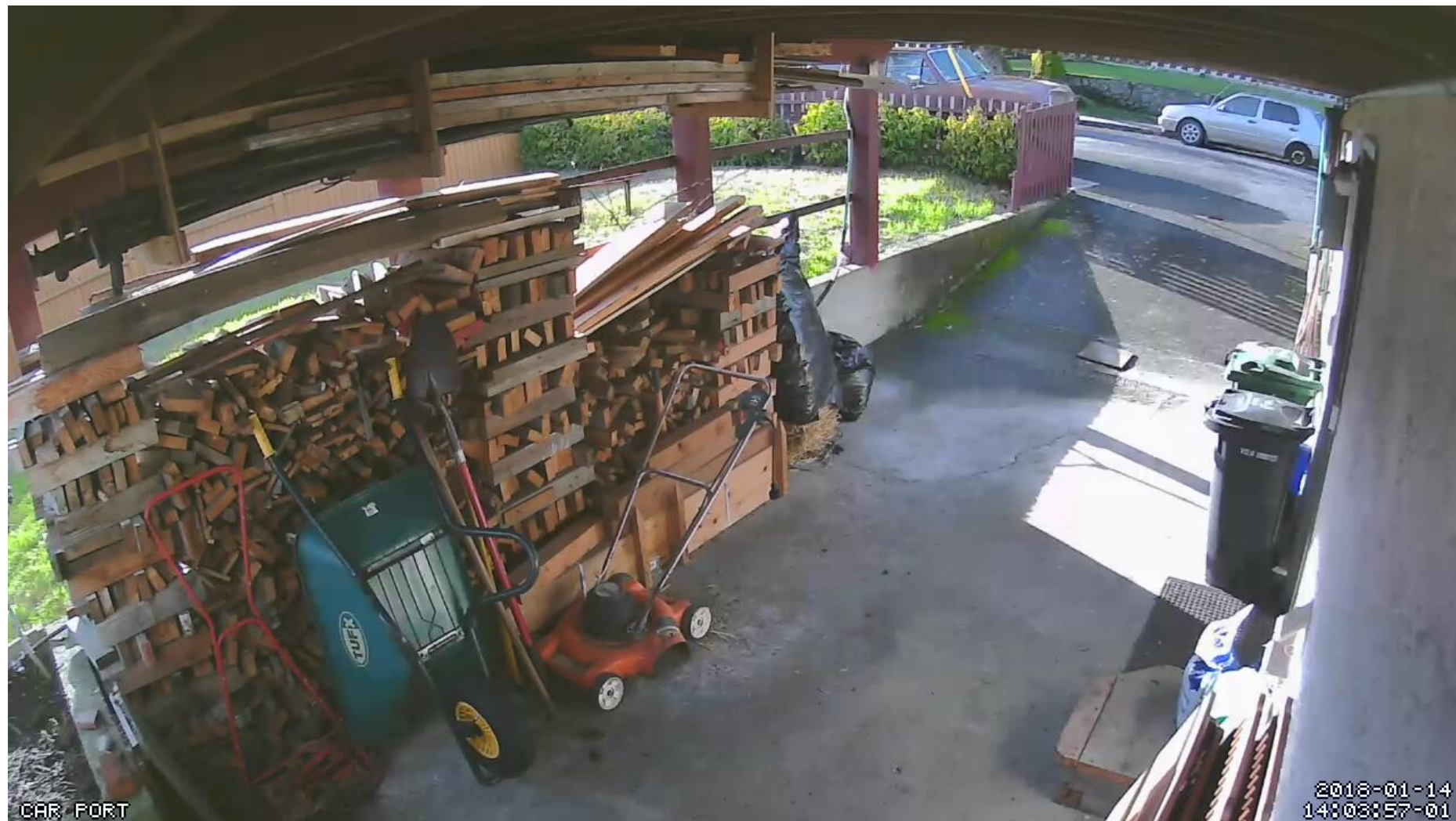MC   memecenter.com/camperintent

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

"SEE ANYTHING YET?"
"NOPE"

Bright sun

Headlights

Bug trails

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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