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Security Camera



Why?

- Open Source camera solution
- Extendable
- Cheaper

Specs

- Night vision up to 15meters
- 1080p photos
- Motion recording
- Web frontend
- Works with Android

Software

- MotionEyeOS - <https://github.com/ccrisan/motioneyeos>
- Includes;
 - frontend
 - ssh access
 - multiple camera view
 - motion detection
 - recordings

Challenges

- Power
- Over heating
- Performance
- Fitting into an enclosure

Hardware

Product	Store	Part No.	Cost
RaspberryPI 2.0	Element14	RASPBERRYPI-2-MODB-1GB	48
SD card 16GB	Ebay	SanDisk 16GB Ultra microSD	8
PoE splitter	Ebay		3
Waterproof enclosure	Radioparts	AH20	29
enclosure bracket	Radioparts	CBA005	11
Voltage Regulator	Jaycar	XC-4514	8
IR camera + lights	Ebay		33
12v power pack	Ebay		15

Power over Ethernet (PoE)

Higher power

Issues

- Hard wired to the length of cable
- Raspberry PI has to be between 4.95volts -> 5.05volts.

Multi-Voltage Reg

ADPTR MODULE MULTI-VOLTAGE REG 1.5A

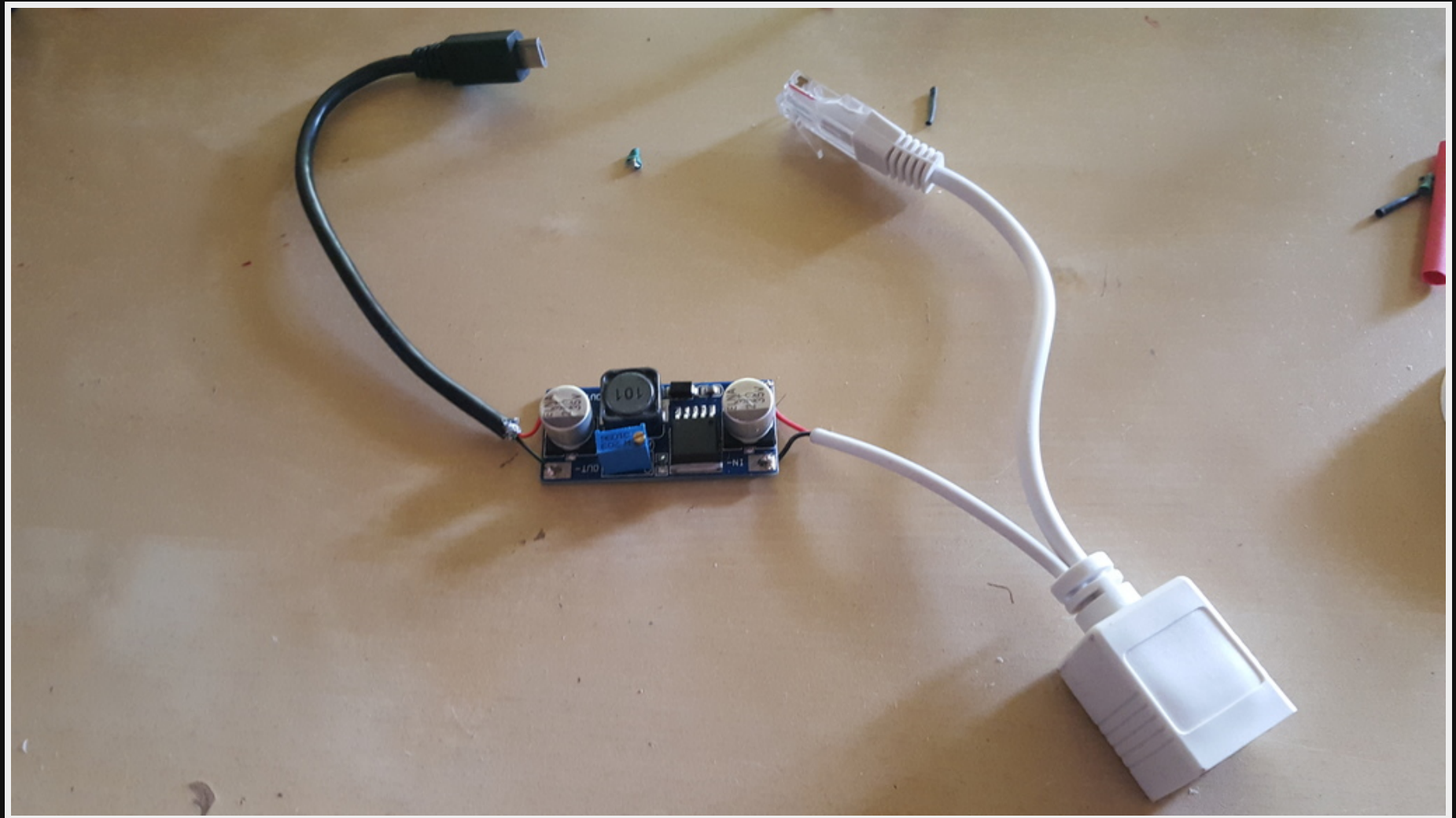
Issues

- Uses inline resistors
- Cheap and nasty
- Not stable enough.

Build my own

- Time consuming
- Hard to get all the parts
- Works out more expensive.

DC Booster option



- DC Booster Module - Jaycar \$8.

Tutorial DC Booster without Injector

- Tutorial using the DC Booster without an Injector [PiPoE - powering a Raspberry Pi over Ethernet - All](#)

Overheating

- Fans and extra holes
- Monitor the temp

Conclusion



Questions

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Github	github: map7
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