

# Solar and Battery Powered CCTV

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PLUS QUICKCLAMP



*Cybertronix Ltd*

# Quick Power Solar and Battery CCTV

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- Install anywhere with a 4G signal
- Can be installed from the ground using Quickclamp
- Power is off unless triggered by solar wireless PIR – up to 8 – camera goes to preset. Alternatively on a timer for a few hours
- Uses Axis M5075 PTZ dome with 5x optical zoom
- Can trigger wireless outputs for example lighting or gate control
- Shown with 18W solar panel and 55Whr battery – small
- Large 244Whr battery option for continuous 24 hours use
- Large 50W Solar panel option, larger if needed
- Remote viewing software automatically connects on camera/router boot





# Time-lapse

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Triggered with internal battery backed real-time clock

Degrades gracefully with power. Communications with router are gradually reduced

Camera keeps restarting to take a shot every 15 minutes by default

Server side software collects stills and builds videos for each connection event

Shown with Axis M3115-LVE and 18Wp panel. Larger panel and battery required for winter use.

# QuickClamp

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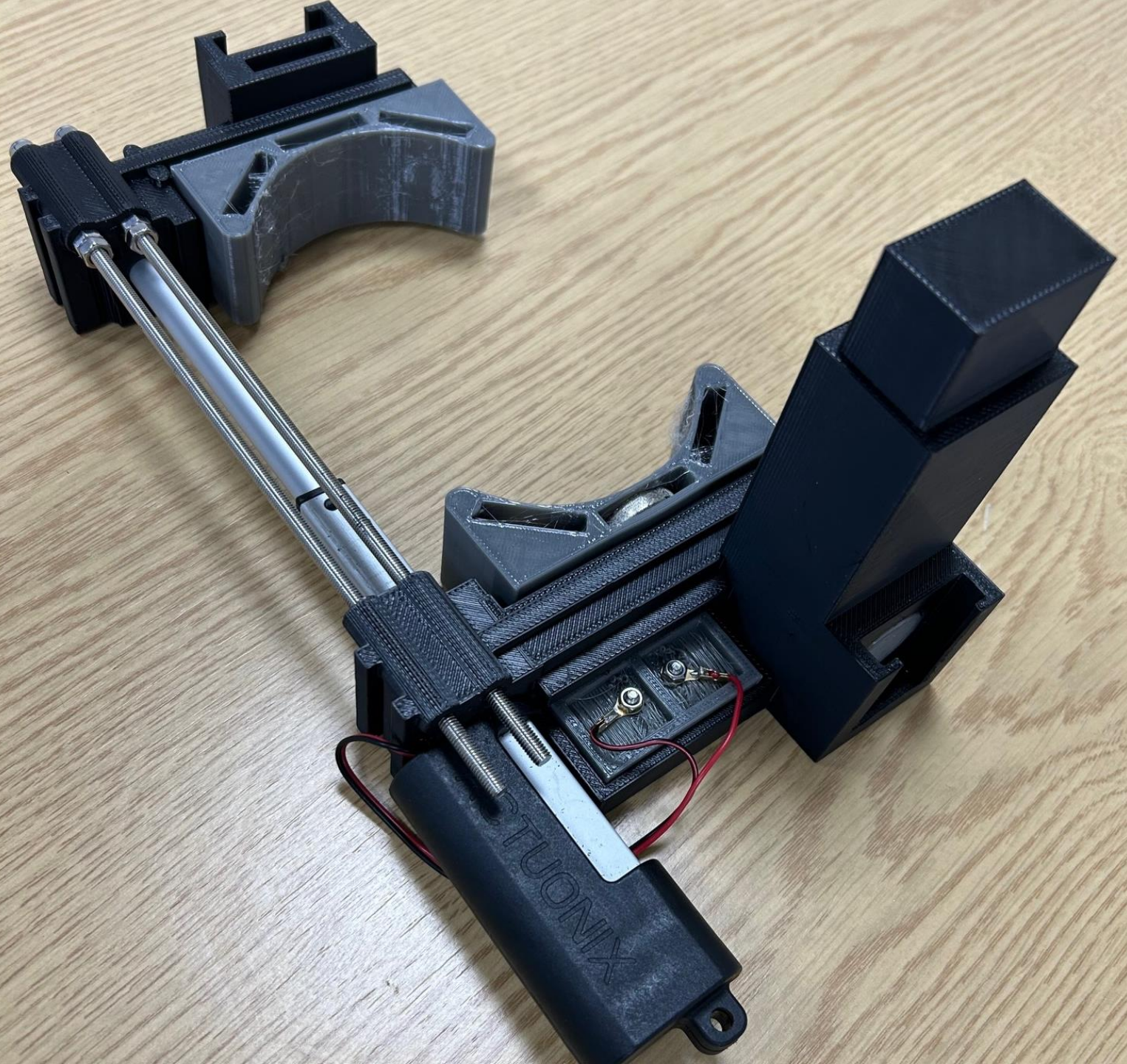
Install equipment on lampposts from the ground using a pole

Facilitates temporary CCTV installations

Wireless remote control over actuator

Automatic sensing of fully closed

Duo version for heavy devices – modular design.



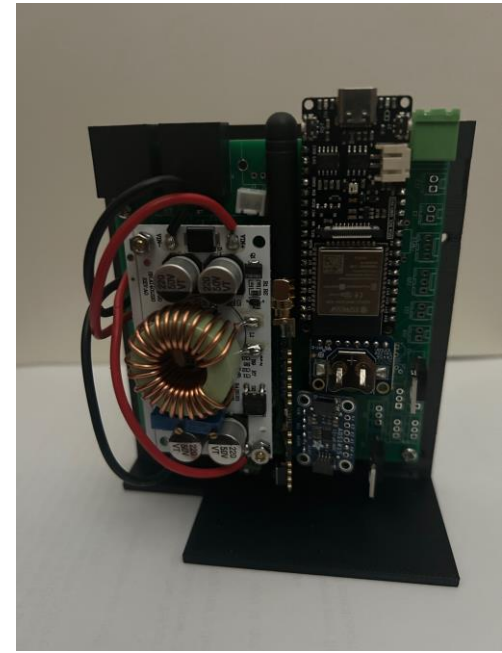


# Other options

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- Culvert blockage monitor – Triggered by water height, range sensor
- Mains router and LoRa wireless gateway for manual remote trigger – always on
- Solar 4G/WiFi router on its own for network of cameras - off until triggered
- Pole/wall mount adapters for non-quickclamp installations
- Vehicle power to camera/router on ignition or GPS speed
- Different panel/battery/cameras on application
- Possible traffic monitor/counter using range sensor
- Modular design allows for other uses

# Cybertronix QuickPower Block Diagram



- Microcontroller can deep sleep between events
- All peripheral power is controlled by I/O via FETs (no relays)
- LoRa or RTC can wake up Microcontroller and it can
- Wake camera or router or both. (Power on many at once)
- LoRa alarms in from PIRs, LoRa out to lights
- Microcontroller can talk to central location via WiFi to router hotspot to communicate status, alarm, battery levels etc

ADC – Analog input for reading battery voltage and other sensors.  
RTC – Real time clock (optional)

