



PUURGEN

SOLAR CCTV



Surveillance powered by the sun, protection 24-7

SOLAR CCTV

Puurgen's Solar CCTV solutions provide 24-7 surveillance in remote and off-grid locations. Scalable power systems, each using Puurgen's maximum power point tracker technology, provide power for analogue and IP fixed and PTZ camera systems.

KEY FEATURES

- Off-grid Surveillance
- Rapidly deployable
- Continuous secure energy supply
- VPN access to real-time video
- Rugged design for all weather types
- Suited to most environments – marine, land-based etc
- 2.4GHz P2P wireless or 3G transmission
- Analogue and IP Fixed and PTZ camera options
- Battery under & over voltage protection
- Low maintenance
- 24 hour support available
- 24 hour monitoring (if using VPN)
- Service contracts available
- Systems can be tailored for customer requirements



Technical Description

Puurgen's Solar CCTV solutions open new possibilities for surveillance by using leading-edge technology to offer up to 100W of continuous power. Our solar power engine can supply the energy required by most CCTV camera and transmission combinations.

Solar CCTV stores energy from the sun during daylight hours to enable the system to operate throughout the night, keeping your business or home secure.

Puurgen's Solar CCTV solutions are customised to solve the specific challenges faced by our clients. Be it flytipping, theft of tools on construction sites, or simply surveillance in remote locations, our solar power engines are sized to ensure the camera and transmission devices remain operational 24-7 providing the protection you need.



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Solar Power System

- ⦿ Puurgen Maximum Power Point Tracking for high efficiency energy transfer
- ⦿ Capability to operate 24-7
- ⦿ Mono-crystalline, polycrystalline or thin film solar pv available
- ⦿ Completely scalable to suit the chosen camera + transmission solution and the geographical location
- ⦿ Designed to operate globally in harsh and friendly environments
- ⦿ IP66 rated
- ⦿ Silent operation

Energy Storage & Conditioning

- ⦿ Maximises energy extraction from power source
- ⦿ Puurgen's charge regime prolongs battery life
- ⦿ Wide input operating range
- ⦿ >95% efficiency
- ⦿ Supports Lead-acid and Li-ion battery technologies

Camera

- ⦿ Day/Night continuous operation
- ⦿ Integrated IR options available
- ⦿ Analogue or IP, fixed or PTZ available
- ⦿ IP66 rated
- ⦿ Built in storage card option
- ⦿ Automatic, manual and programmable mode settings
- ⦿ Tamper detection
- ⦿ Live viewing for multiple operators/users

Mechanical

- ⦿ Rugged solution designed to withstand severe weather conditions
- ⦿ System rated to IP66 dust and water ingress protection
- ⦿ Deployable to most structures with no drilling required

System

- ⦿ Monitor locations with no power or fixed line communications infrastructure, and record video to NVR, or integrate footage into existing CCTV network.
- ⦿ VPN channel to allow user access to real time video



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Technical Specifications

SOLAR PANELS

	Min	Max	Units	Notes
Vmp	18	35.4	V	Depends on panel type
Voc	22	44	V	Depends on panel type
Power	140	280	W	Depends on panel type
Height	1478	1956	mm	Depends on panel type
Width	670	992	mm	Depends on panel type
Thickness	35	50	mm	Depends on panel type
Weight	16	30	kg	Depends on panel type
Op temp	-40 to +85		°C	

CAMERA – TYPICAL VALUES

	Nom	Units	Notes
Operating voltage	12	V	
Power	4	W	
Length	170	mm	
Diameter	60	mm	
Weight	0.7	kg	
Op temp	-20 to +50	°C	
Image sensor	1/4" CMOS	N/A	
Resolution	1280 x 800	pixels	
Angle of view	H: 56, V: 41, Dia: 71	°	

Camera Options (others available)

- Day/night Vandal Proof Dome Camera with DNR
- IP Compact Dome Camera with Virtual PTZ, 3 Mega Pixel Image Resolution and Built in NVR
- PTZ Dome with 18x optical zoom *

NVR Options

- 250GB on board NVR*

Wireless Options

- Long Range RF Transmission, up to 5km
- Encrypted Wireless Ethernet up to 30 miles
- GPRS/ 3G / HSDPA Communications –high-speed cellular data link with no location constraints

* Please note that these systems may require a higher rated solar power system, dependent on location

BATTERIES – TYPICAL VALUES

	Nom	Units	Notes
Op voltage	12	V	Scaling possible
Capacity	240	Wh	Per pack
Length	173	mm	
Depth	87	mm	
Height	155	mm	
Weight	6.8	kg	

Solar Power System Options

- Available separately
- Hybrid solar/wind power systems
- Different power and voltage ratings available, dependent on your needs, please enquire



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