



WESTMINSTER

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WG Solar IP CCTV System



WG Solar IP CCTV System provides footage 24 hours a day, 365 days of the year in any location around the world.

It can be adapted to deliver remote satellite broadband, telecommunications and radar.

It was designed in response to the challenge of delivering wireless surveillance in remote and corrosive environments combined with extreme weather conditions to enable seamless HD monitoring for high security operations across a wide geographic area, such as oilfields.

Typically, such environments lack fixed buildings, power and connectivity, it was integral that the system was designed to be completely standalone, easily transportable and rapidly deployed.

Each system is designed to be completely autonomous and transmits HD quality surveillance via wireless point to point or point to multi-point networks and onto monitoring centre.

The power generated from the solar and battery system can support any type of IP CCTV camera, wireless access point, telecommunications, LED lighting system or any bespoke application.

Solar panels

- The solar IP CCTV is powered using a 500w combination of marine grade, shatterproof and highly robust solar panels which are among the most efficient in the world.
- The solar panels and custom engineered mounting brackets have been specifically developed and engineered for the optimum solar angles in any location.



Telescopic Lattice Tower

- Our ground breaking telescopic tower, has been designed in stainless steel to provide stability, rigidity and protect from hydrogen sulphide corrosion.
- It extends to 6m and retracts vertically to 2.4m for transportation providing easy access to the camera and wireless access point.
- The lattice design has been specifically developed for exposed, high wind load locations.



Controller

The system controller provides critical ability to monitor and control all aspects of the system.

Designed and developed in the UK for this bespoke application, the controller provides users with real performance data of all components including:

- Real time monitoring of solar panel performance
- Real time monitoring of current battery charge/ capacity
- IP66 Rated Enclosure
- Integrated GPS tracker configured for telecommunications frequency in end user location
- Optional local short range 2.4ghz connection for maintenance engineers to set up or fault find o the system
- Battery charge controller and battery protection
- All system data can be integrated into surveillance stream, providing instant alerts on system performance

Cabinet

- The cabinet is a welded stainless steel enclosure frame, providing natural airflow throughout the cabinet using a single skin and thermal insulation.
- The cabinet is designed for extreme temperature ranges between -40°C to +60°C, high protection against corrosion and fabricated using stainless steel



Base

- The base has been specifically designed to anchor the system to the ground and provide stability on uneven terrain.
- The base is constructed from 316 stainless steel and provides integrated forklift slots and lifting eyes to easily transport the system to the deployment location
- The outriggers extend from the body of the base, providing further stability and retract into the base for transportation.
- During the hours of darkness it has reflective crash barriers and solar powered warning beacons to prevent accidental collisions with the system.



PTZ Camera

- The camera is a top of the range outdoor-ready pan, tilt, and zoom (PTZ) dome that provides exceptional coverage of wide areas and incredible detail using the optical zoom function.
- The camera provides HD quality surveillance using a 30x optical zoom, it is vandal-resistant (IK10) and has shock detection, surge protection and protection against dust, rain and snow (IP66 and NEMA 4X).
- The camera has been designed for easy installation and reliable operation in the most difficult environment



Wireless Access Point

- It uses a rugged wireless access point, which provides up to 125 Mbps throughput and can be deployed in multiple rings to provide more than 1 Gps of throughput to relay the surveillance footage.
- The low latency of the access point provides access network connectivity for video, VoIP, and data for harsh and challenging conditions.



PTZ Bracket

- Our patent pending PTZ bracket models, provide a true 365 degree field of view from any PTZ camera
- Each fin is 3mm in width and this disappears as the PTZ focuses past the leading ledge

SPECIFICATIONS

General

- Dimensions (HxWxD)
- Deployed: 6000mm x 2000mm x 2000mm
- Transport: 2400mm x 2000mm x 2000mm
- Operating Temperature Range: -40 to 60°
- Power: 500w solar panel array
- Power consumption:32w
- Battery system: 850ah
- Weight: 950KGs

IP CCTV Camera

- 1/3" progressive scan CCD image sensor
- 4.4-132mm, F1.4-4.6 lens
- 62.9°-2.2° horizontal field of view
- 37 °-1.2° vertical field of view
- 30x optical zoom and 12x digital zoom
- -40 to 60°c operating temperature
- H.264 (MPEG-4 Part 10/AVC) video compression

SPECIFICATIONS

Wireless communication (options)

- 3G, 4G, Wireless Access Point or Satellite
- Marine GPS and Geofencing

Cabinet

- 316L Stainless Steel construction
- Dual doors with dust/water seals
- IP66 rated
- Integrated solar array ratchet system

WG SICS Software

- Integrated with any IP CCTV VMS
- Live battery, solar and system data Geofencing

Telescopic Mast

- 316L Stainless Steel
- Integrated forklift slots and lifting eyes
- Extendable stabilising outriggers

PTZ Bracket

- 316L Stainless Steel
- True 360 degree field of view
- Anti-wind loading design