

SolarSat-Cam™

Solar Powered Satellite/WiFi 8MP Panoramic Camera

August 2023

The SolarSat-Cam is a rugged solar powered Satellite 8 MPixel Panoramic Surveillance Camera for harsh environments in remote or unattended locations with no 4G!. The compact autonomous camera is solar powered making it completely independent of external power. The *solar-smart* charging system ensures that the battery has always enough charge and will control the camera, satellite receiver and solar charging to ensure the battery never goes flat.

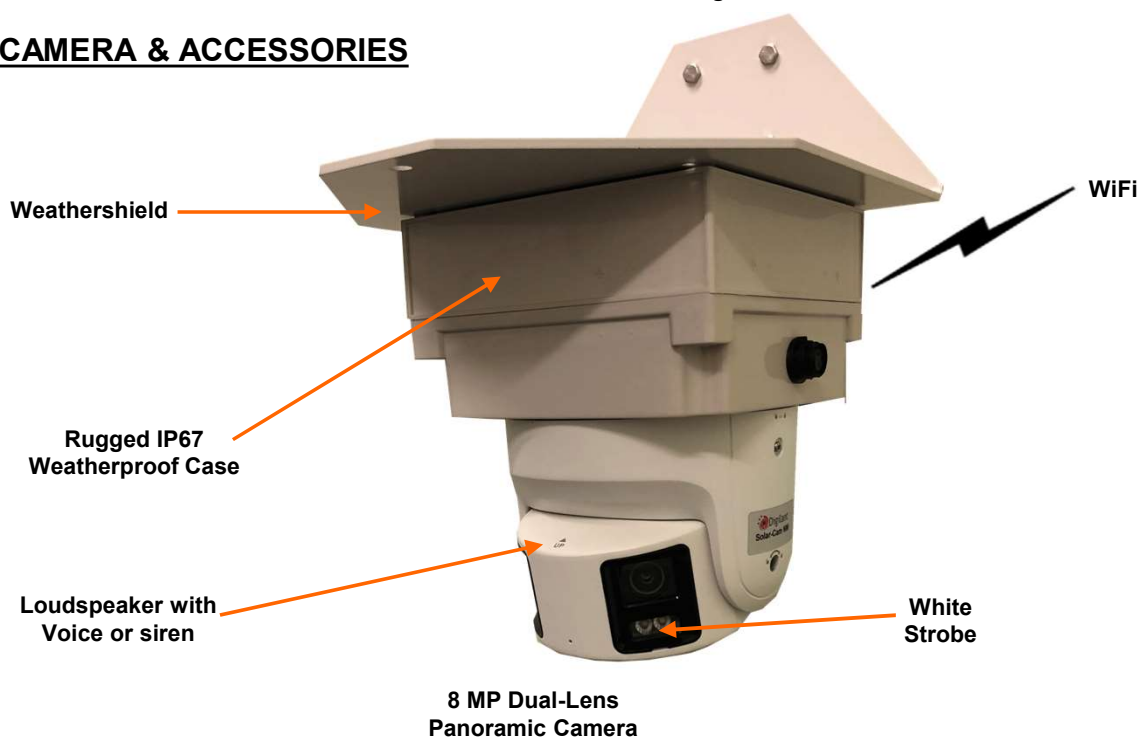
The camera can **identify humans** and **vehicles** entering the 180° viewing area during the day or night-time, and immediately send a colour alert image to a cell phone or the Dashboard, as well as flashing a bright white strobe and issuing a verbal warning. Images are sent via the Starlink Satellite System to a PC, mobile phone, or web-based monitoring 'Dashboard'. The camera can also operate in 'time-lapse' mode for applications such as Construction, Farm and Water monitoring etc.

The camera's WiFi can connect up to 10 users to the internet as well as controlling gate openers and water pumps.

FEATURES

- **Fully integrated autonomous solar powered Satellite camera system with WiFi connectivity**
- **Automatic intrusion detection of Humans or Vehicles with strobe and Audible voice alarms**
- **High Sensitivity colour 8 MPixel camera with wide dynamic range**
- **Dual Image-Sensor/lenses with 180° Field of View**
- **Video and still images are automatically stitched together for a Panoramic view with no distortion.**
- **Ultra low-light camera that sends colour images at night – no IR required!**
- **Images are sent immediately to mobile phone, PC, Monitoring Station, & Cloud-based Dashboard**
- **Full control and configuration of the camera via our proprietary VPN web interface**
- **'Live View' video can be viewed on mobile phone, tablet, and PC**
- **Rugged weatherproof IP67 housing with Solar Panel - all with adjustable mounts.**
- **Ideal for Farm, Water , Construction & Livestock monitoring,**

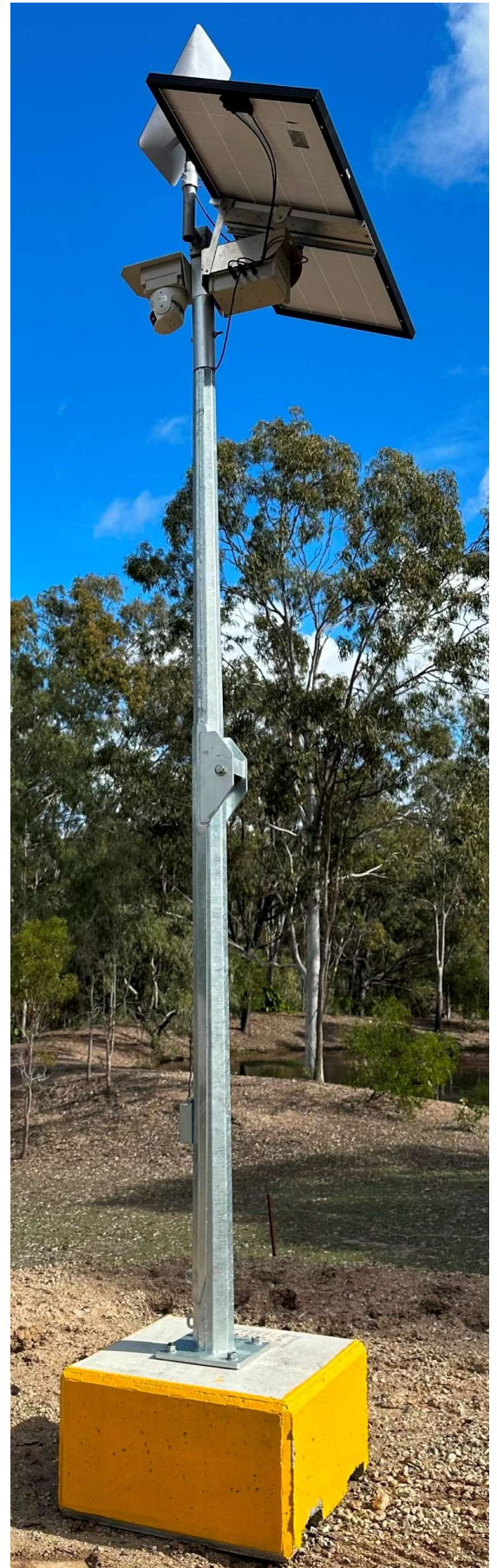
CAMERA & ACCESSORIES



SOLARSAT-CAM SYSTEM

The SolarSat system consists of just three devices:

- Starlink Satellite Dish
- Panoramic Camera with WiFi
- 200W Solar Panel with integrated battery and solar charger.



SPECIFICATIONS

Camera

| | |
|----------------------|--|
| Maximum Resolution | 5120 x 1440 (8 MPixel) |
| Lenses | 2 x 4mm (Horiz FOV = 180°) |
| Minimum Illumination | 0.0005 Lux/F1.0 (Colour), 0 Lux with white light |
| Video Compression | H.265/H.264 |
| Max Frame Rate | 5120 x 1440 (20fps) |
| Video Detection | Human, Vehicle Intrusion detection, Line crossing, Motion |
| Deterrent on alarm | White strobe light & Audible warning |
| Protocols | TCP/IP,UDP,ICMP, HTTP, HTTPS, FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,NTP, SNMP, IGMP, Multicast UPnP,SMTP,802.1X,QoS,ipV6, Bonjour |
| Storage | Internal SD card - 256GB |

WiFi

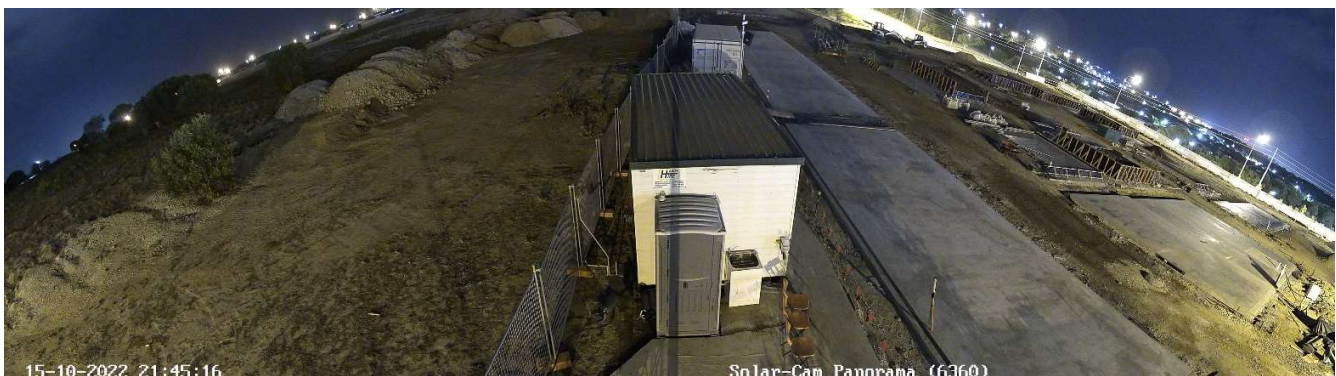
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|--------------------|---|
| Wireless Standards | IEEE802.11b/g/n |
| Frequency | 2.4GHz |
| Bandwidth | 20/40MHz |
| Protocols | 802.11b: CCK,QPSK,BPSK, 802.11g/n: OFDM |
| Security | 64/128 bit WEP, WPA/WPA2, WPA-PSK, WPS |
| Transfer rates | 300 Mbps |
| Wireless Range | 100m (328 ft) |

General

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|-----------------------|--|
| Operating Temperature | -30°C to 60°C (-22°F to 140°F), Humidity 95% or less |
| White LED Range | 30m (98 ft) |
| Solar Panel | 200W @ 18.3VDC |
| Ingress Protection | IP 67 |

Satellite

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|-----------------|---|
| Starlink System | Download speed: 20 - 100Mbps, Upload speed: 5 - 15Mbps Antenna: Electronic Phased Array Orientation: Motorised Self Orienting Rating: IP54 |
|-----------------|---|

**180° Plant & Equipment Monitoring - Day****180° Construction Monitoring - Night**