*Solar-Cam NW* ™ **Solar Powered 4G/WiFi 6MP Dual Camera** **July 2025**
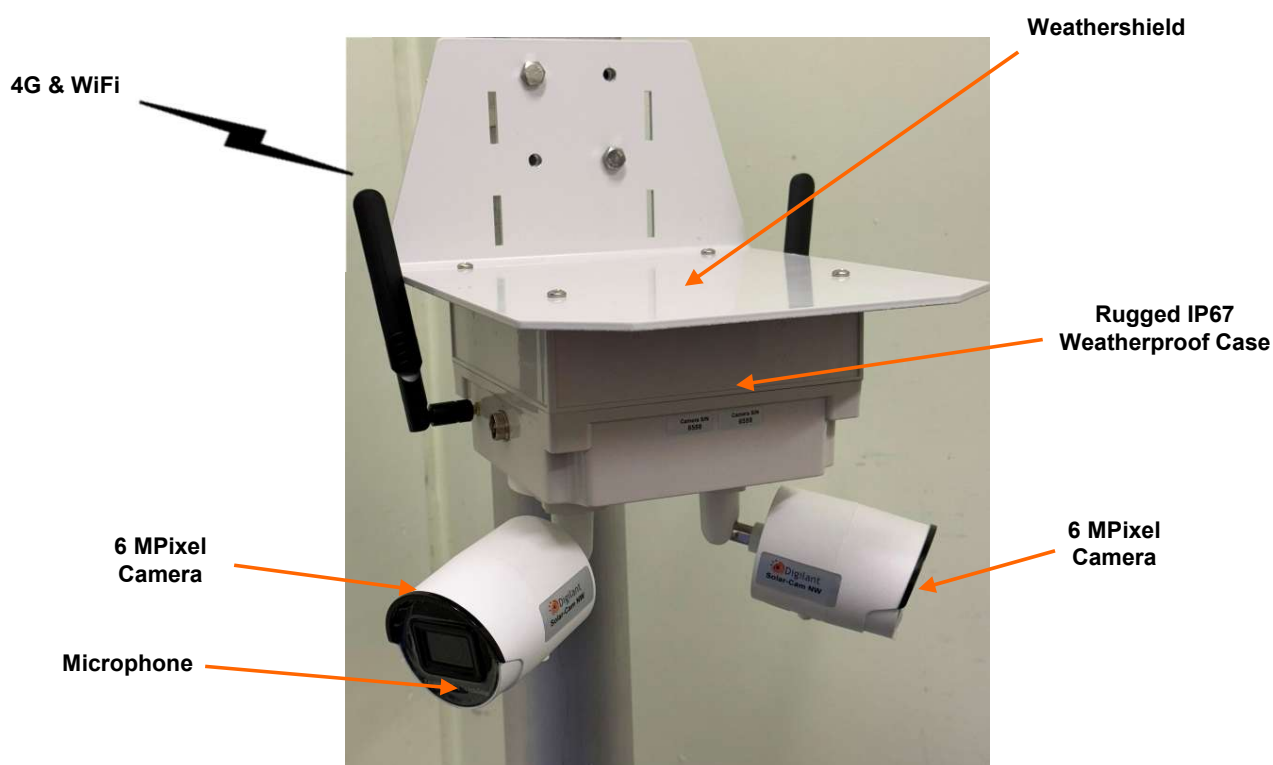
The Solar-Cam *Dual* is a rugged 4G/WiFi solar powered Dual Camera system for harsh environments in remote or unattended locations. The compact autonomous cameras are solar powered making them completely independent of external power. The *solar-smart* charging system ensures that the battery has always enough charge and will control the camera, modem and solar charging to ensure the battery never goes flat. The **'smart'** cameras can **identify humans** and **vehicles** entering the viewing area during the day or nighttime and immediately send an alert image to a cell phone and Dashboard. The images are sent via a 4G modem to a PC, mobile phone, or web-based monitoring 'Dashboard'. The camera has a rugged **IP67** housing and can also operate in 'time-lapse' mode for applications such as Construction, Farm and Water monitoring etc.

## FEATURES

- **Fully integrated autonomous solar powered 4G dual camera system with WiFi connectivity**

- **Automatic intrusion detection of Humans or Vehicles**

- **Camera records video 24/7 and stores up to 3 weeks of video history for viewing on Mobile an PC**

- **High Sensitivity colour 6MPixel cameras with wide dynamic range**

- **Inbuilt Microphone in each camera for real-time audio security**

- **Excellent night vision with 40m IR LED**

- **Images are sent immediately to mobile phone, PC, Monitoring Station, & Cloud-based Dashboard**

- **Full control and configuration of the cameras via 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 rental companies to supply to Builders**

## CAMERA & ACCESSORIES



Weathershield

4G & WiFi

Rugged IP67 Weatherproof Case

6 MPixel Camera

6 MPixel Camera

Microphone

## SOLAR-CAM SYSTEM



**Solar-Farm Monitoring**



**Construction**



**Farm**



**Asset monitoring**



**Housing**

# SPECIFICATIONS

## Camera

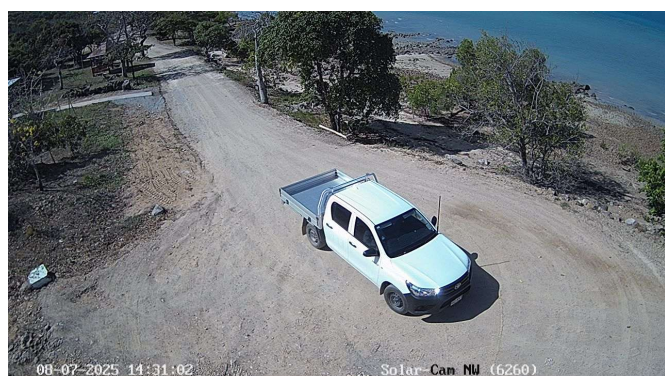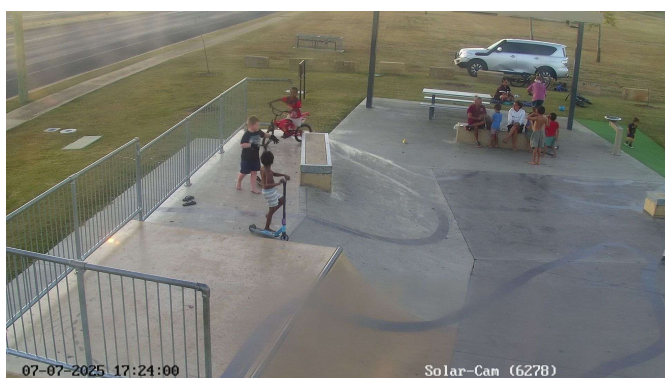| | |
|---|---|
| Maximum Resolution | 3200 x 1800 (6 MPixel) |
| Lens | 2.8mm  (Horiz FOV = 105˚, Vert FOV = 55˚, Diag FOV = 127˚) |
| Minimum Illumination | 0.003 Lux/F1.6 (Colour), 0 Lux (IR on) |
| Video Compression | H.265/H.264 |
| Max Frame Rate | 3200 x 1800 25fps |
| Video Detection | Human, Vehicle Intrusion detection, Line crossing, Motion |
| Deterrent on alarm | Alert Images sent to Phone & Dashboard |
| 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 - 512GB |

## WiFi

| | |
|---|---|
| Wireless Standards | IEEE802.11b, 802.11g, 802.11n |
| 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 | 11b: 11Mbps, 11g: 54Mbps, 11n: up to 150 Mbps |
| Wireless Range | 100m (328 ft) |

## General

| | |
|---|---|
| Operating Temperature | -30˚C to 60˚C (-22˚F to 140˚F), Humidity 95% or less |
| IR Range | 80m (262 ft) |
| Solar Panel | 120W @ 18.3VDC |
| Ingress Protection | IP 66 |
| Dimensions | 30 x 19 x 16 cm (11.8 x 7.5 x 6.3 inches) |
| Weight | 2.5 Kg (5.5 lbs) |

## Modem

Frequency Bands:
**LTE FDD:** Band1 (2100 MHz)/ Band3(1800 MHz)/ Band7(2600 MHz)/ Band8 (900 MHz)/ Band20 (800 MHz)
**DC-HSPA+/HSPA+/HSPA/UMTS:** Band1 (2100 MHz)/ Band8 (900 MHz)
**EDGE/GPRS/GSM:** 850 MHz/ 900 MHz/ 1800 MHz/ 1900 MHz



07-07-2025 17:24:00          Solar-Cam (6278)



08-07-2025 Tue 10:35:30          Cunnamaulla Nth West View



08-07-2025 14:31:02          Solar-Cam NW (6260)



17-08-2021 09:56:05          Solar-Cam NW (6091)

## Declaration of Conformity

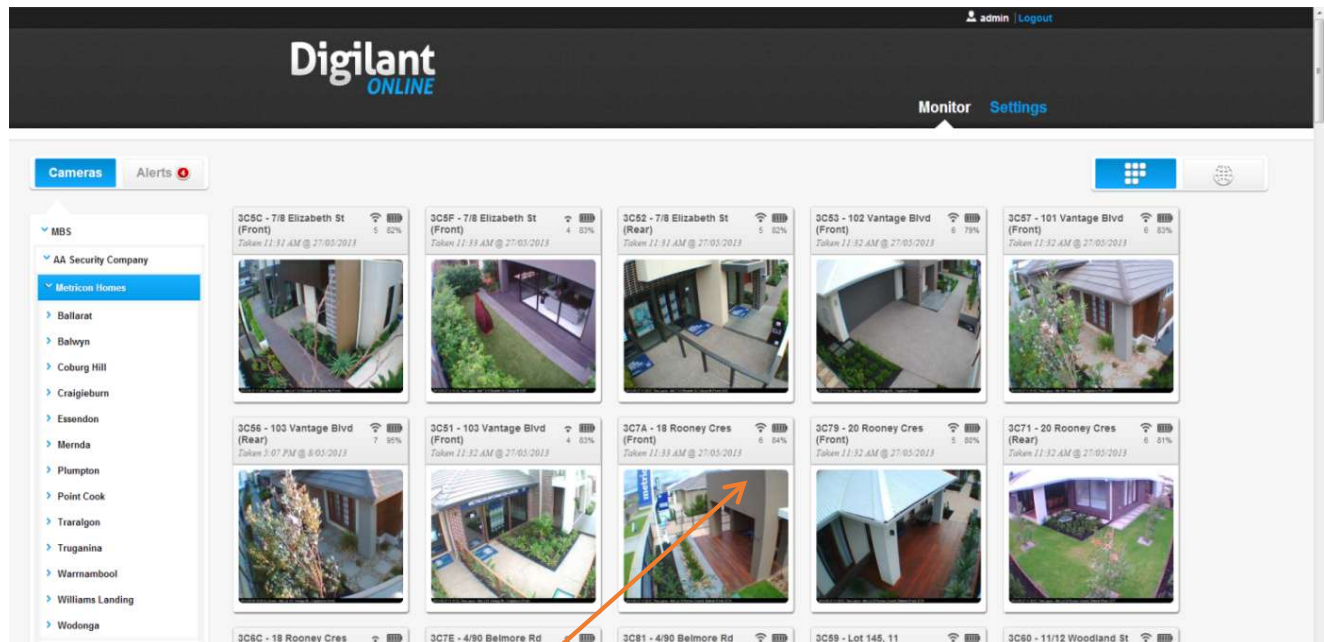The RF transceiver module in this product conforms with **ETSI EN 300 440-1** and **FCC section 15.249**

## WIRELESS TO WEB™ DASHBOARD

The 'Wireless To Web' (WTW) proprietary network is a fast, secure and reliable means of sending images from wireless cameras to the end user's PC, mobile phone, monitoring station, or Dashboard.

The WTW Dashboard enables images to be displayed from multiple cameras on a reference map. The user can move the icon to the exact location if the camera is moved.

Each camera is displayed as an icon and can be highlighted using the mouse and when selected, opens an image viewer to display historical images in rapid succession.



**Latest Image**

**Many hundreds of cameras can be displayed on the one page**