

Solar-Cam NW™

Solar Powered 4G/WiFi Thermal Camera

May 2022

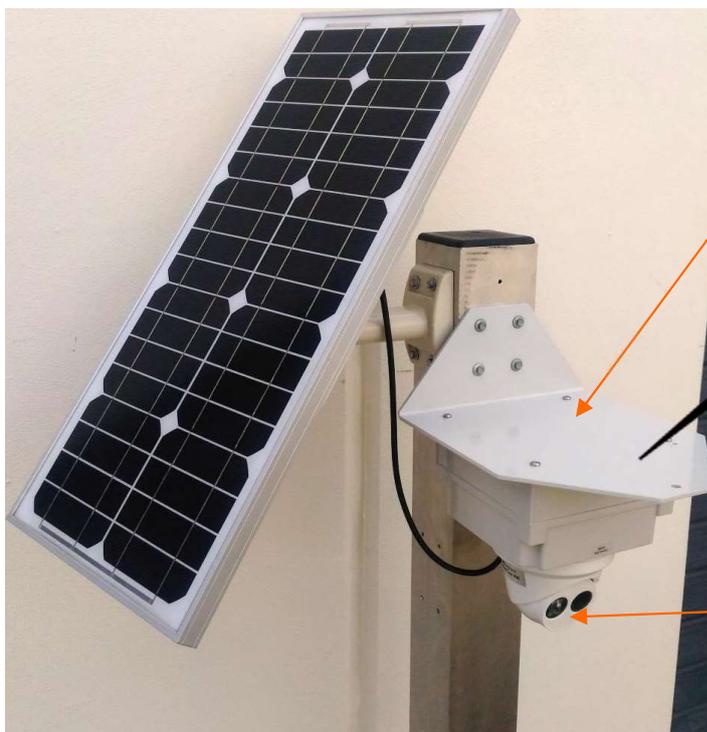
The Solar-Cam NW is a rugged 4G/WiFi solar powered 4 MPixel Thermal/Optical Surveillance Camera for harsh environments in remote or unattended locations. The compact autonomous camera is solar powered making it completely independent of external power and the *solar-smart* charging system ensures that the battery has always enough charge to ensure the battery never goes flat.

The camera has a rugged **IP67** housing and the advanced Bi-spectrum image sensors can identify humans and or vehicles at night time due to their thermal characteristics. The deep learning software algorithm can realise high precision VCA detection and send alert images via a 3G/4G modem to a PC, mobile, or web-based 'Dashboard', as well as a flashing white LED and audible/voice alarms.

The camera records HD video 24/7 for up to 1 month before overwriting. Live video can be viewed at any time as well as viewing and downloading video clips of interest. Still images are also stored on an internal SD card as a backup. For sites with multiple cameras, only the host camera requires the 4G modem and the rest communicate to the host via WiFi

FEATURES

- Fully integrated autonomous solar powered 3G/4G Thermal/Optical camera system with WiFi connectivity
- Complete 'wire free' solution for remote monitoring & surveillance.
- Camera records video 24/7 and stores up to 1 month of video history for viewing on a Mobile and PC
- 256 x 192 Thermal sensor with 3.6mm lens and 4 Mpixel Optical sensor with 4.3mm lens
- Images are sent immediately to mobile phone, PC, Monitoring Station, & web-based Dashboard
- Full control and configuration of the camera via web interface
- Video Content Analysis (VCA): vehicle/human classification.
- Temperature exception alarm for fire prevention, -20°C to 150°C, +/- 8°C
- White LED visual alarm and voice audio alarm from VCA or Fire detection.
- Rugged weatherproof IP67 housing with 120W Solar Panel - all with adjustable mounts.
- Ideal for warehouse, construction, council rubbish dump, workshop, parking lot & Livestock monitoring,



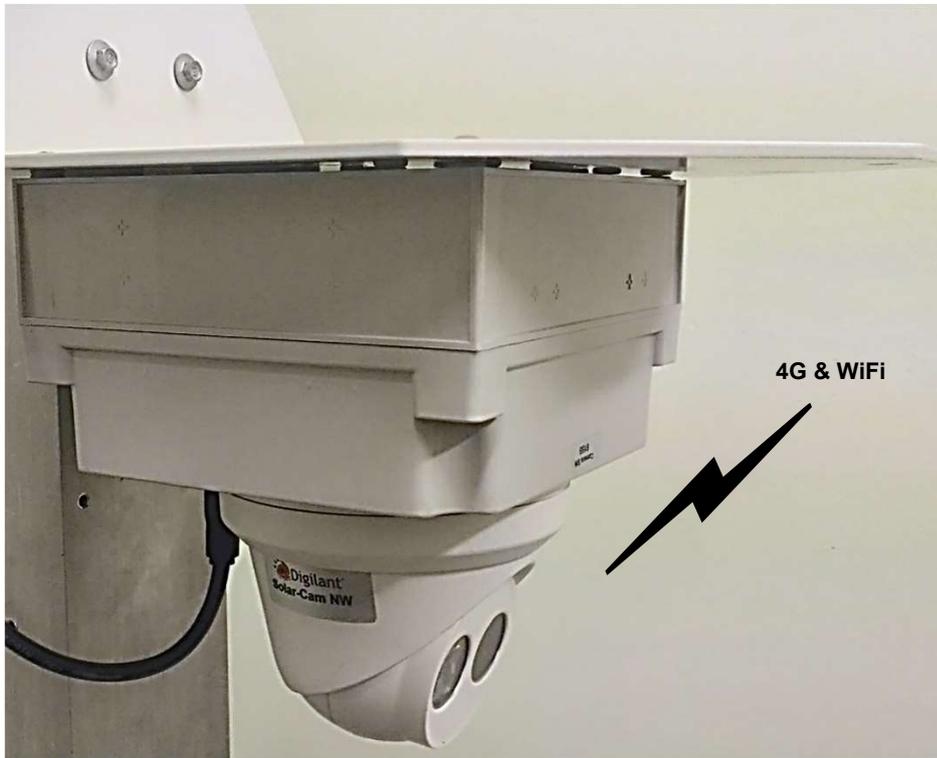
CAMERA & ACCESSORIES

Rugged IP67
Weatherproof Case &
Weather-shield

4G & WiFi

Thermal/Optical Camera

SOLAR-CAM SYSTEM



Construction



Waste Management



Orchard monitoring



Port Monitoring

SPECIFICATIONS

Thermal Resolution	256 x 192
Optical/Thermal Lenses	4.3mm/3.6mm
Wide Dynamic Range	120dB
Pan & Tilt Rotation	Pan 0 - 355°, Tilt 0 - 75°, Rotation 0 - 355°
Video Compression	H.264/MPEG/H.264+
Max Frame Rate	25 fps (2688x1520)
VCA Detection	Line crossing, intrusion, region entrance/exit
Thermal Temp Range	-20°C to 150°C, Accuracy: +/- 8°C
Storage	Internal SD card - 256GB

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 (328ft)

General

Operating Temperature	-40°C to 65°C (-40°F to 149°F), Humidity 95% or less
IR LED Range	15m (50 ft)
Solar Panel	120W @ 18.1VDC
Ingress Protection	IP 67
Dimensions	30 x 19 x 16 cm (11.8 x 7.5 x 6.3 inches)
Weight	3.7 Kg (8 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
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**Declaration of Conformity**

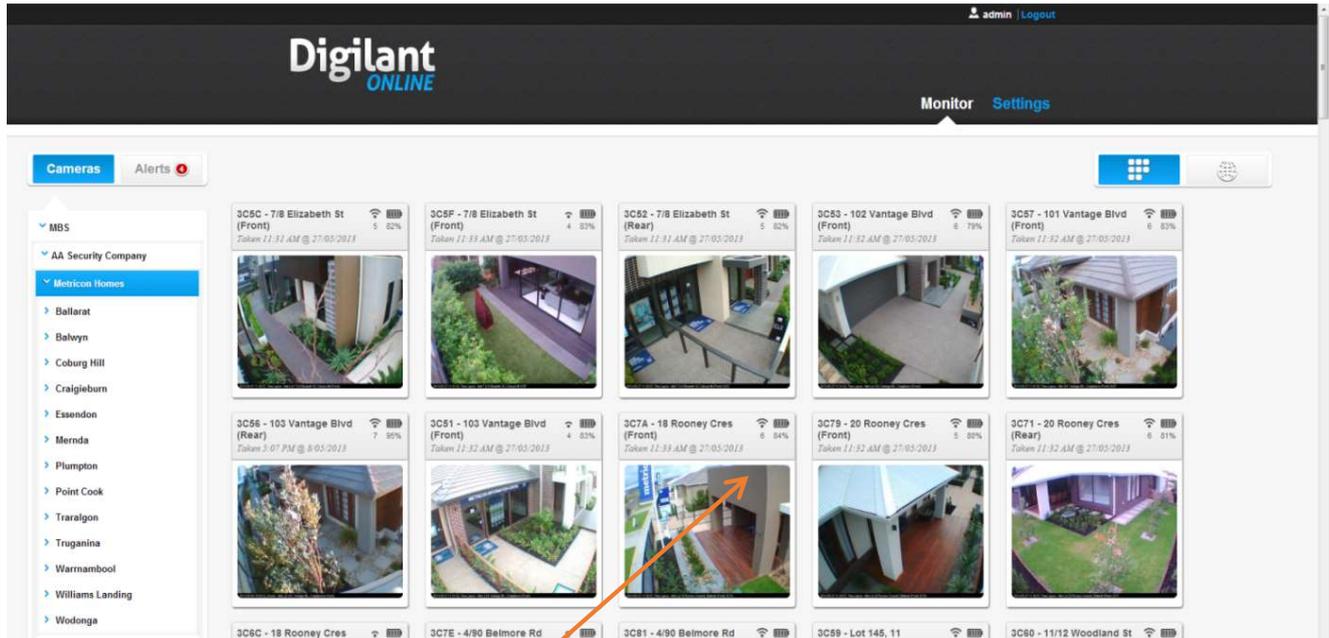
The RF transceiver module in this product conforms with **ETSI EN 300 440-1** and **FCC section 15.249**

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

