

# Hidden Camera Surveillance – The Camera Experts

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## 4G PTZ DUAL LENS AI HUMAN TRACKING SOLAR SECURITY CAMERA

**Model Number 4G-DUAL-PTZ**

### Short Description

*Dual lens 4G PTZ 4MP Solar Security Camera with AI Human Motion Tracking.* This easy DIY solar battery powered security camera only requires a few bracket screws to mount vertically or horizontally to any surface. Small and lightweight, one person can do it alone in minutes. No need for Cables, Internet, or Power. Provided mobile phone reception is available and you have a spare prepaid mobile phone SIM card, that's all you need. **NO Contract or Server fees...EVER!!**

Download PDF brochure here

### Description

#### **So how does this device work and what's it all about?**

Built into our *4G Pan Tilt & Zoom (PTZ) Solar Powered Security Camera* is not just 1, but **2 camera lenses**. When viewing the camera live or in recording playback, you actually see a dual camera split screen. The first camera lens is fixed at a static 120° wide angle position capturing the full desired scene. This lens can be “manually” panned up to 180° and tilted up to 15° to provide that perfect viewing angle.

The second camera lens is a powerful **10 x optical zoom** with auto panning & tilting in any direction. If being viewed live, the authorised user/s can take manual control over the PTZ camera with a simple swipe left or right or pinch in/out zoom. You don't have power or Internet at the camera location? All good and that's what this is all about. 6W solar panel, built-in 4 x 21700mA rechargeable lithium batteries Ultra low power consumption with super long standby time.

Please note if WiFi happens to be available at the camera location and 4G isn't needed, this same camera is also available in a **WiFi model** and slightly cheaper. Call or email us for further information.

This motion activated *4G PTZ CCTV camera* is 100% Solar powered although it can be powered (power adapter included) provided power is available. Worst case scenario if there is ever a need to recharge the camera lithium batteries, no problem at all just plug it into power. Easily installed by anyone capable of mounting a bracket as cables are not required. The solar panel is detachable and can be separated from the camera using the supplied 2m extension cable.



A camera mounting pole is totally optional although a mounting bracket is included. Steel or timber poles can be purchased locally Australia wide so it's not necessarily an issue however we can supply a mounting pole as an option. Ideally the pole ought to be 90-100mm diameter and 3-4m in height generally dyna bolted, or ground cemented for stability.

So, let's look at a typical security scenario. Let's assume our *solar security camera* is pole or wall mounted on a building or construction site. It could indeed be mounted anywhere including a *home, boat marina, a mine site, unattended machinery, ideal for councils, farms, car yards, warehouses*, or indeed any area with a need for one or more CCTV cameras but let's stay with a building site by way of an example. Building and construction sites are prone to theft and vandalism because building sites are generally unattended by night and will contain items of value including copper and wiring etc.

Wandering about on a site (especially by night) can have extreme safety hazard concerns and a fall could result in injury or death which then becomes a legal issue. Having real time and date stamped recorded video and audio evidence with warnings etc could be absolutely crucial in terms of potential litigation and/or OH&S insurance.

Most larger sites require several security cameras just to perform the one task because the camera lens is fixed into one non moveable position. In most instances the view is too wide to see or record anything let alone detect motion.

Standard security cameras will each need cabling, constant 12V power, WiFi Internet and possibly a network video recorder with costly installation and ongoing maintenance. Other so called security solar cameras are prone to all sorts of technical issues. Powered cameras are easily switched off and often require professional installation. System settings can be so complicated, one needs an IT degree.



 Dual Screen Preview	 Local/Cloud storage	 4X / 10X Optical Zoom	 4K UHD
 Double Spotlights	 Cruise Detection	 Starlight Night Vision	 360° Viewing angle

Many security companies insist on a rental contract with exorbitant weekly or monthly fees, and you never own it. The supplier and/or installer has full camera control with access to recordings both locally and remotely. Furthermore, later when the camera needs to be moved or relocated, be prepared for even more cost. Forget about all that, it's absurd a waste of time and money.

Our *4G PTZ Solar Security Cameras* supports a 128GB internal micro SD memory card which if app enabled, will auto overwrite when full. However, each camera also supports optional offsite **CLOUD Recording** as well. That's right if you prefer to store video recordings on a remote cloud server such as Amazon or Microsoft rather than internal memory, our 4G solar cameras support that feature. You purchase the desired Cloud storage (not us) so **ONLY** you or others authorised by you, have access to those recordings. Cloud can be handy in the sense that should the camera be accidentally or intentionally damaged or stolen, recordings are stored remotely.

Hidden Camera Surveillance *super HD 4G solar security camera* doesn't need to be enabled 24/7. On a building site for example, yes there may be activity all day long, but management is only concerned with what happens onsite "after hours" or when the site is closed. Otherwise leave the camera armed all day and night.

There's no harm in allowing the device to record constantly or in motion detection mode. Constant recording will place more draw on the batteries but yes, constant recording is supported. Our 4G security cameras won't use any SIM card data when recording. SIM data is used only during live remote access or when remotely playing back SD or Cloud stored recordings.

### Tell me about the camera SIM Card?

We basically supply everything you need other than a pre-paid SIM card. Ideally customers require a SIM where as needed, credit can be topped up online. We suggest 12 months prepaid but do ensure the SIM supports data, phone and text, not just broadband data SIM. You need the same type of SIM as your phone. We recommend Telstra with the widest and strongest Australian coverage, particularly in more remote regions although other Telcos are supported too. If you already have a phone plan contract, ask whether it's possible to add another SIM to that plan with an alternate phone number.



### How does motion detection work?

When the camera isn't sensing motion and not recording, it enters a "sleep mode" thus conserving internal battery power. However, when motion is detected, this wakes the camera enabling HD real time recording, audio alerts, night vision and motion push alerts etc provided those features are App enabled or disabled. Your secure password protected phone App allows for instant changes to camera settings from anywhere. It could also be externally professionally monitored after hours if need be. If you have a preferred security company or guard, they too can monitor one or more cameras without the need for you be actively involved.

By night when the site is closed and with **Scheduled Recording** enabled, your 4G Solar Camera will auto enter into *security mode*. Tantamount to a security guard doing the rounds, the first camera lens takes in a wide angle site view. If the site is particularly large where several zones need security, then perhaps consider a secondary camera to monitor more zones.

There may be a particular area of concern which needs constant surveillance including CCTV on entry/exit gates (locked or not) perhaps a site office, parked cars and/or machinery, perhaps even a shipping container depending on contents. Mounted in the correct position, our 4G PTZ Solar Camera will see it all, ready to pounce and zoom in for a closer look at any moment.

If someone enters this site by day or night, the first camera senses that motion and commences recording and tracking, telling the PTZ camera where to move and zoom in close up. At the same time, it's sending push notifications (if enabled) to those with camera access permission. These are just some of the reasons why this particular 4G security camera surpasses others.

## 100% Wire-Free, Place it Anywhere

5w solar panel with built-in 20000mAh rechargeable batteries to ensure the perpetual working for camera.



Having a dual camera lens means the 2<sup>nd</sup> PTZ camera lens is NOT fixed into one position at all. The secondary camera contains the very powerful 10 x optical zoom lens. The built in Artificial Intelligence (AI) kicks in so that any person sneaking about on site will be auto tracked, illuminated, and audio warned. To most would be thief or vandal, it's time to get out and fast.

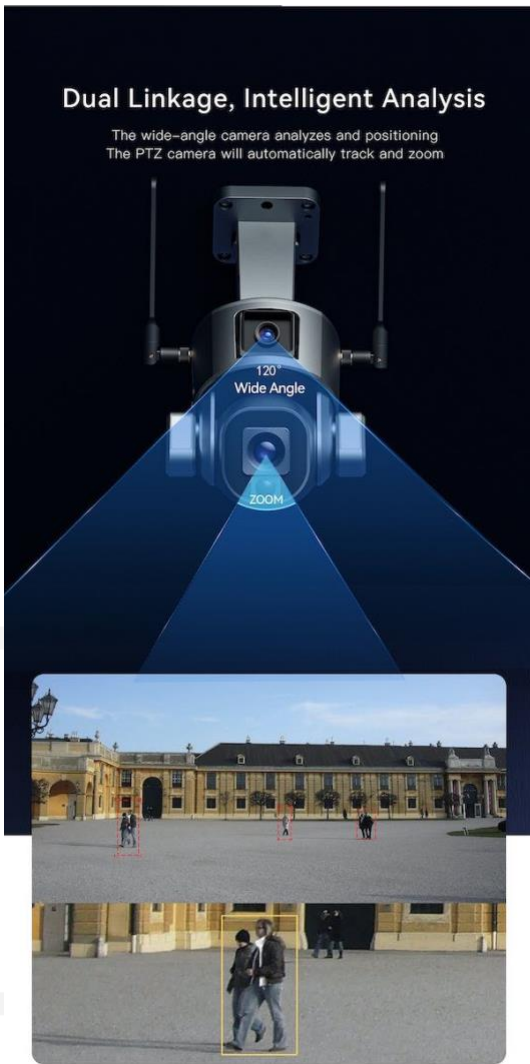
Standard non AI security cameras with motion detection, can be easily fooled into recording for no apparent reason because those cameras don't have AI smarts built in. In other words, basic cameras often can't tell the difference between a person and a tree branch or car headlight. AI takes out the guess work and false alerts because its smart. AI can also be tweaked to suit individual needs.

When motion is detected, the PTZ lens will FOLLOW that person wherever he/she moves, and closely zoom in for a much closer look. No matter in which direction that person moves, whether its left or right, forward, or backward, the camera will follow and track each step and auto zoom in or out depending on movement distance. Close up video recording could be that crucial piece of evidence Police need to arrest or prosecute offenders. The more captured detail time and date stamped evidence, the better chance of positive ID and prosecution.

Placed in similar situations, standard security cameras normally fail because the intruder or thief can't be identified. That's not to say intruders won't take precautions to hide their identity but the more the camera can see, ultimately the better chance of ID.

### **What about Night Vision?**

Motion triggered LED night vision isn't just a huge intrusion deterrent, but most intruders will impulsively face the camera light. To an intruders or potential vandal, an LED light, and an audio speaker, is sufficient warning to move on. However, even if the intruder's face is covered, (hoodie etc) clothing colours and footwear etc can greatly assist police to apprehend offenders. Infra-Red (IR) night vision is also very good although IR is B/W which needs to be taken into consideration. This *dual lens 4G super HD PTZ Human Tracking security camera* supports both night vision options.



### What's the difference between Optical & Digital Zoom?

Optical zoom is significantly higher quality than digital zoom as it doesn't easily pixilate. Digital zoom will pixilate because it enhances the recording. In short, optical zoom allows you to bring the object or subject close before you capture it. With digital zoom, your camera uses a part of the image and sizes it later. That's why the risk of losing image quality is greater with digital zoom. This security camera supports 10x Optical zoom and 4 Megapixel Resolution is indeed super high definition, but it doesn't end there.

### Someone is onsite so what happens next?

This outstanding security camera is right onto it. Fitted with both IR and LED night vision (you choose the preferred method) upon sensing motion, the camera will auto trigger LED or IR night vision lighting. After a period of time if there's no further motion, the light will switch off but illuminate again if further motion is detected. In this regard, the light is NOT permanently on.

It's all very well for a security camera to record a break-in or trespass but much more is expected nowadays. One or more people with approved camera access, can each receive instant motion push alerts including LIVE multi viewer access.

The camera system enters into "sleep mode" when the zone is inactive and this in turn conserves battery power. The camera LED doesn't need to be permanently on by night. Constant illumination places needless draw on the batteries and lighting may also disturb immediate neighbours. In this regard privacy needs to be taken into consideration. The built in powerful 50m white illumination serves two purposes. First of all, it allows the camera to record in HD colour by night and it's a visual intruder warning.

## Dual-Cameras, Dual-View

Double cameras can view and control two displays at same time,  
Wide-angle camera is for global monitoring,  
the PTZ camera is for details monitoring.



Up & Down



Global & Details



Left & Right



App settings allow the built in speaker to auto announce an audio warning or siren upon sensing motion at times that you set in the working schedule although this and every other function can be switched off in settings. This PTZ camera also supports two way audio communication. Remember, it supports 4G camera so just like a mobile phone, allows for 2 way communication albeit with a larger internal speaker and microphone. That's right, you can shout through the speaker if you like, warn the intruder police have been called, whatever you choose, perhaps even a dog bark.

Think about it for a moment. We all have security concerns to one degree or another. Crime isn't getting less; it's getting worse. Crime is a massive problem nationwide, a huge cost to owners and insurers and more often than not, thieves and vandals often get away with it and go unpunished.

Security cameras alone in most cases do little to deter thieves but there are steps one can take to reduce theft. Powerful LED night vision, audio and two way audio communication, motion push alerts etc puts doubt into the intruder's mind. If I'm quick I might get away with it or someone knows I'm here and I may get caught. Most will hightail it which is really the preferred outcome.

### Can I record to my phone?

During Live remote access, by simply swiping left or right or up and down, you remotely tilt and rotate the camera in any direction you like including zoom. During a live view, if preferred, record what you see directly to your mobile phone or allow the camera to record to the internal memory card.

### How does the battery solar panel operate?

This camera adopts advanced low-power technology. If no motion is detected, the camera enters a semi sleep mode. Once fully charged, it can be woken 6000 times before depleting the battery, that's assuming there is no solar sun charge. Functioning at say 15 seconds intervals it can sustain up 300 wakeups per hour. In standby mode even without a solar panel, the fully charged internal batteries can remain in standby mode for up to 8 months.

The camera batteries can be charged up to 500 times and put that into perspective, if the batteries were charged once per week, the battery life can be extended to 9 years before needing replacement. The recommended camera operating temperature is 14°F~122°F(-10°C~50°C). Battery performance may decrease in low temperatures.

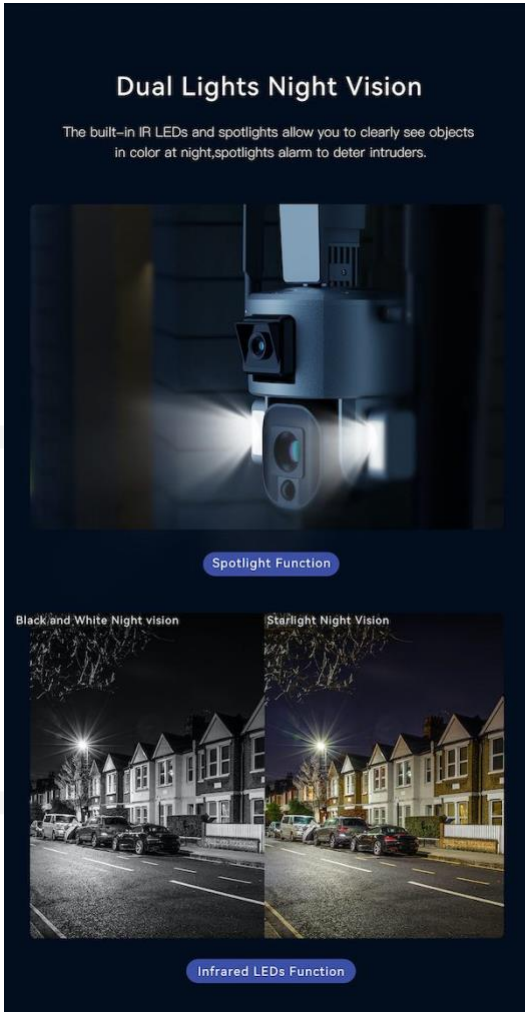


### Camera Features Include

- DUAL ULTRA HD 4K Resolution
- Smart Power Management
- 100% Wireless Turnkey Solution
- Sustainable Standby up to 8 Months (depending on season & state locations)
- Dual Camera Lenses
- 10X Optical Zoom
- Wide angle fixed lens included
- 3G / 4G SIM Card Network Connection (supports Telstra & Optus)
- Remotely Monitor and Playback recorded audio and video Footage
- Live Video P2P - iPhone / iPad / Android Support
- Receive instant motion push alert Notifications
- Cloud Storage Support / Local SD card Storage up to 128GB
- Adjustable 6W Solar Panel
- 3 Way Installation
- Smart AI Human Auto Tracking Detection
- Auto Cruising to Detection Points
- Dual LIVE View Screen
- Dual Flood Lights - White Light LED or IR
- Full-Colour LED Night Vision
- Fast PIR Sensor - Thermal Detection / Motion Detection
- PTZ Lens Rotation - Remotely Rotate
- Digital Zoom Support
- Built-in Microphone and Speaker



- Two Ways Audio Communication
- Weather Resistance IP66
- Multi-user view support
- Memory Card Support
- Rechargeable lithium Batteries



## Specifications

- 4G Band Frequency: B1 (FDD 2100) / B2 (FDD 1900) / B3 (FDD 1800) / B4 (FDD 1700 / AWS) / B5 (FDD 850) / B7 (FDD 2600) / B8 (FDD 900) / B28 (FDD 700) / B40 (TDD 2300)
- 3G Band Frequency: B1 (2100) B2 (B8 (900) B5 (850) B8 (900)
- Video Resolution: 3840 x 2160p Resolution (Dual) 30FPS
- Video Compression: H.265
- Image Sensor: 4MP+4MP Dual Sensor HD CMOS
- Lens: 6mm lens/ 5-50mm 10X Optical Zoom
- PTZ Lens: 355° Pan / 90° Tilt (30°/sec Speed)
- Fixed Lens: 180° Manual Pan / 15° Tilt
- PIR Sensor Trigger Speed: 0.25s
- Detection Angle: 120°
- Detection Distance: 12m
- White Flood Light LED up to 50m
- IR Distance: Up to 40m
- Audio Preset: Built-in Microphone and Speaker

- Power below 50%: PIR Sensor Motion Detection Recording
- Power Above 50%: 24/7 Video Recording
- Solar Energy Consumption: 6W
- Solar Panel Cable length: 2m
- Batteries: Rechargeable 4pcs\*(21700-5000mAH) - 20000mAh (INCLUDED)
- Memory Card Support: Micro SD Card up to 128GB



### Package Contents

- 1 x 4G Solar Security Camera
- 1 x 128GB Micro SD Card
- 2 x Antenna
- 1 x Solar Panel
- 1 x Solar Panel Bracket
- 1 x Mounting Accessories (Screws, Wrench)
- 1 x Steel Wall Bracket
- 1 x Type-C USB Charger Cable
- 1 x User Manual / User Guide)

## 4X/10X Optical Zoom

Clear video recording both near and far positions

4X/10X Optical Zoom, monitoring far and near details. High resolution lens combined with telephoto lens, which can achieve 4-16mm zoom, it is suitable for residential, parking, supermarket and other scenes, taking into global monitoring and key area details.



Residential



Parking lot



Supermarkets



**IP66**  
WATERPROOF

Precision industrial design meets the international industrial IP66 water and dust proof grade standard. It can work stably at -15°C-60°C and easily cope with severe weather such as rain, snow and high temperature.

## Insufficient Sunshine Work as Usual

In fog/rain/snow weather the camera can work as usual with battery power.



Foggy Days



Snowy Days





### WI-FI Version

300M Wireless Installation  
Stronger WiFi Signal

The wireless transmission rate of 2x2 MIMMOWi-Fi chip can access 300Mbps.  
Built-in error correction algorithm, stronger, anti-jamming performance.



### Smart AI Intelligently Identify And Filter Out Invalid Motion Alerts

The camera analyzes the shapes of people, pets, car and vehicles thus sending you more accurate and meaningful alerts in real time sparing yourself the unnecessary alarms.







## Smart Power Management System

Smart control When the power is more than 50%, it will record at all time.  
When the power is lower than 50%, it will trigger PIR and record.



## 4K Super HD Image Quality

Check what's happened with details captured  
HD PICTURE



capturing clearer and smoother videos



## MicroSD Card & Cloud Storage

Our cloud service provides video recording and storage service, Niview Cloud can record videos every time motion is detected. No worries for missing a thing, even if your device is stolen or MicroSD card is broken, you can access your Cloud video history via Niview APP anytime from anywhere



Cloud Storage



MicroSD Card

## Multi-dimensional Installation Full Angle Coverage

The upper wide-angle camera can be manually adjusted 180° horizontally and 15° vertically, the PTZ camera can automatically rotate 355° horizontally and 90° vertically



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## PRODUCT OVERVIEW



Hidden Camera Surveillance