



Ninehundred
Communications
Group

900ECO 4G SOLAR PTZ CAM



TWO WAY
RADIOS



PPE
SOLUTIONS



ECO FRIENDLY
SOLUTIONS



SITE
SOLUTIONS



SECURITY
SOLUTIONS



TRACKING
SOLUTIONS



PHONES
& DATA



WIRELESS
& VOIP

0845 600 4 900 | www.ninehundred.co.uk

900ECO 4G SOLAR PTZ CAMERA



The integrated solar power system, integrating solar panels, maximum power point tracking charging controller and mounting brackets, provides stable power supply for the front - end data acquisition system - 4G network camera through high conversion charging device.

FEATURES & BENEFITS

INTEGRATED DIE CASTING CASING

Compact structure integrated with solar panel and charging to improve the appearance, installation, and maintenance of the system.

MONOCRYSTALLINE SOLAR PANEL

Adopts mono-crystalline solar panel to greatly improve optical absorbent efficiency and power generation performance with dusky light.

REMOTE MONITORING WITH APP

With these cameras, you can remotely monitor the system operation status and receive alarm notifications for low battery in real time.

MAXIMUM POWER POINT TRACKING (MPPT) CHARGING CONTROLLER

MPPT controller helps significantly improve the energy utilisation efficiency of the System, and raise the charging efficiency by 10%–30% compared with conventional PWM controller.

RS-485 COMMUNICATION

RS-485 port and standard Modbus protocol can satisfy communication requirements in various scenarios.

PERIMETER PROTECTION

Automatically filters out false alarms caused by animals, rustling leaves and more. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

SIREN AND LIGHT ACTIVE DETERRENC

With up to 13 customisable audio files and a built in speaker, this camera is dynamic. It supports alarm linkages such as white light warning, audio playing and target tracking.

PROTECTION (IP66, WIDE VOLTAGE)

IP66; TVS 6000V lightning proof; surge protection; voltage transient protection. Wide voltage: The camera allows –10% to +25% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

ELECTRONIC PROTECTION

Comprehensive electronic protection: Current limiting, short circuit and reverse current protection of the solar panel; reverse connection over-voltage, over-discharge, and over-temperature protection of the lithium battery; overload and short circuit protection.

**Ensure all equipment
is safe, secure and fully
functional at all times...**



MORE FEATURES & DIMENSIONS

This solar power structure can be installed in a range of places, such as farms, courtyards, scenic spots, roads, communities and small construction sites.

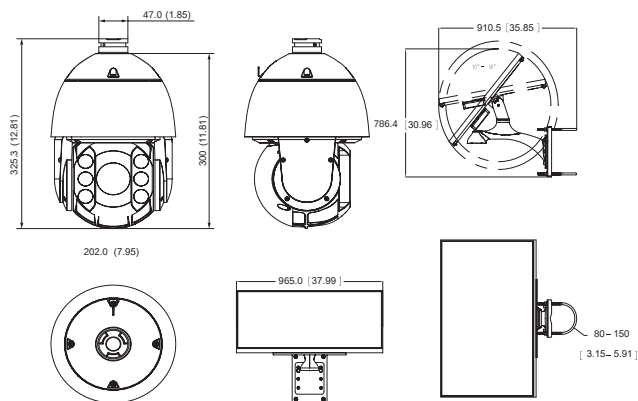
PFA TECHNOLOGY

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMART H.265+ & SMART H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

DIMENSIONS (MM)



KEY BENEFITS:



**LOW POWER
CONSUMPTION**



**HIGH WIND
RESISTANCE**



**AUTO TRACKING &
PERIMETER TRACKING**



**FACE
DETECTION**



**SOUND &
LIGHT ALARM**



**STARLIGHT
TECHNOLOGY**



**IR DISTANCE
UP TO 150M**



**MAX. 25/30 FPS
AT 1080P**

**Blending pristine
vision with immense
technology.**



TECHNICAL SPECS: SOLAR PANEL



INTEGRATED SOLAR POWER SYSTEM (WITHOUT LITHIUM BATTERY)

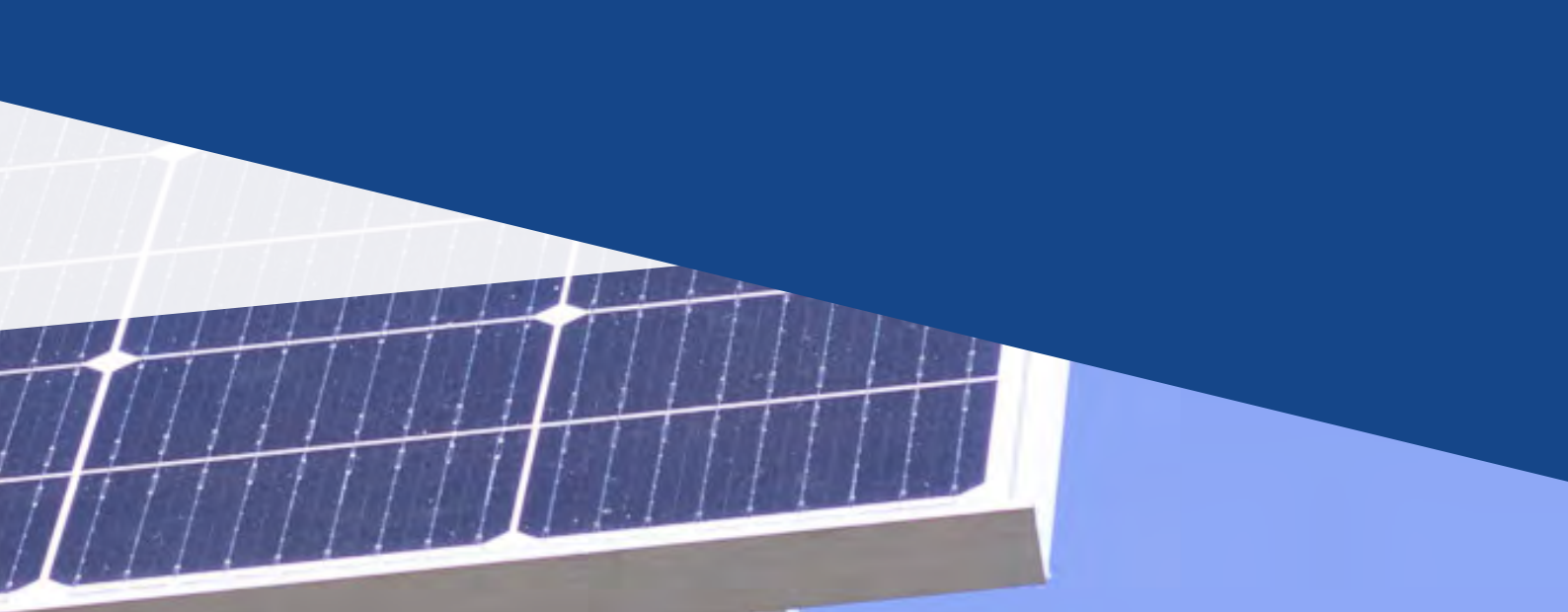
Model **DH-PFM378-B125-CB**

SOLAR PANEL

Type	Monocrystalline silicon
Max. Power	125 W
Solar Cell Efficiency	21%
Max. Mechanical Load	5400 Pa

CONTROLLER

Type	MPPT
Operating Voltage	12 VDC
Rated Charging Current	12 VDC
Rated Discharge Current	10 A
MPPT Tracking Efficiency	≥ 99%
Communication Mode	RS485
Operating Temperature	−20 °C to +60 °C (−4 °F to +140 °F)
Rated Charging Power	130 W
Over-discharge Protection Voltage	11.1 VDC
Others	Over-temperature, over-discharge, over-voltage and low-temperature protection of battery; overload and short circuit protection of load.



ENVIRONMENT

Operating Altitude	< 3000 m (9842.5 ft)
Operating Humidity	< 95% (RH)
Applicable Area	Areas with daily exposure to solar radiation for more than 3.5 hours
Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Storage Humidity	< 95% (RH)

GENERAL

Main Body material	Q235 steel/aluminium
IP Rating	IP65
Installation	Pole mount, Φ80mm~Φ150mm
Adjustable Angle	Solar panel: H: 360°, V:10°/20°/30°/40°/50°
Product Dimensions	965.0 mm × 910.5 mm × 786.4 mm (37.99" × 35.85" × 30.96")
Packaging Dimensions	1,280 mm × 775 mm × 280 mm (50.39" × 30.51" × 11.02")
Packaging Method	1 pc in each carton
Net Weight	20.1 kg (44.31 lb)
Gross Weight	26 kg (57.32 lb)

PORT

Power Output	Φ5.5 mm × Φ2.1 mm × 12 mm (Φ0.22" × Φ0.08" × 0.47")
RS-485	Red: RS485-A / Black: RS485-B
Output Port	CSA authorized M15 2-core waterproof connector (connected to lithium battery)

CERTIFICATIONS

CE: EN 55032: 2015+A11: 2020, EN 55030-4: 2011+A1: 2014, EN 55024: 2010+A1: 2015, EN 55035: 2017+A11: 2020
FCC: 47 CFR Part 15, Subpart B
UKCA: EN 55032: 2015+A11: 2020, EN 55030-4: 2011+A1: 2014, EN 55024: 2010+A1: 2015, EN 55035: 2017+A11: 2020

TECHNICAL SPECS:

PTZ CAMERA

4 MP 32X STARTLIGHT IR WIZSENSE NETWORK PTZ CAMERA

Model **DH-SD6C3432XB-HNR-AGQ-PV**

CAMERA

Image Sensor	1/2.8" CMOS
Pixel	4 MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	4 GB
RAM	1 GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Colour: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)
Illumination Distance	150 m (492.13 ft) (IR) 80 m (262.47 ft) (white light)
Illuminator Number	4 (IR 2 (white light))

LENS

Focal Length	4.8 mm–154 mm
Max. Aperture	F1.6–F4.0
Field of View	H: 55.8°–2.3° V: 31.9°–1.3° D: 63.7°–2.7°
Optical Zoom	32x
Focus Control	Auto; Semi-Auto; Manual
Close Focus Distance	0.1m - 1.5m
Iris Control	Auto

DORI DISTANCE

Detect: 3,080m (10104.99 ft)
Recognise: 616m (2021.00 ft)

Observe: 1,216.6m (3991.47 ft)
Identify: 308m (1010.50 ft)

PTZ

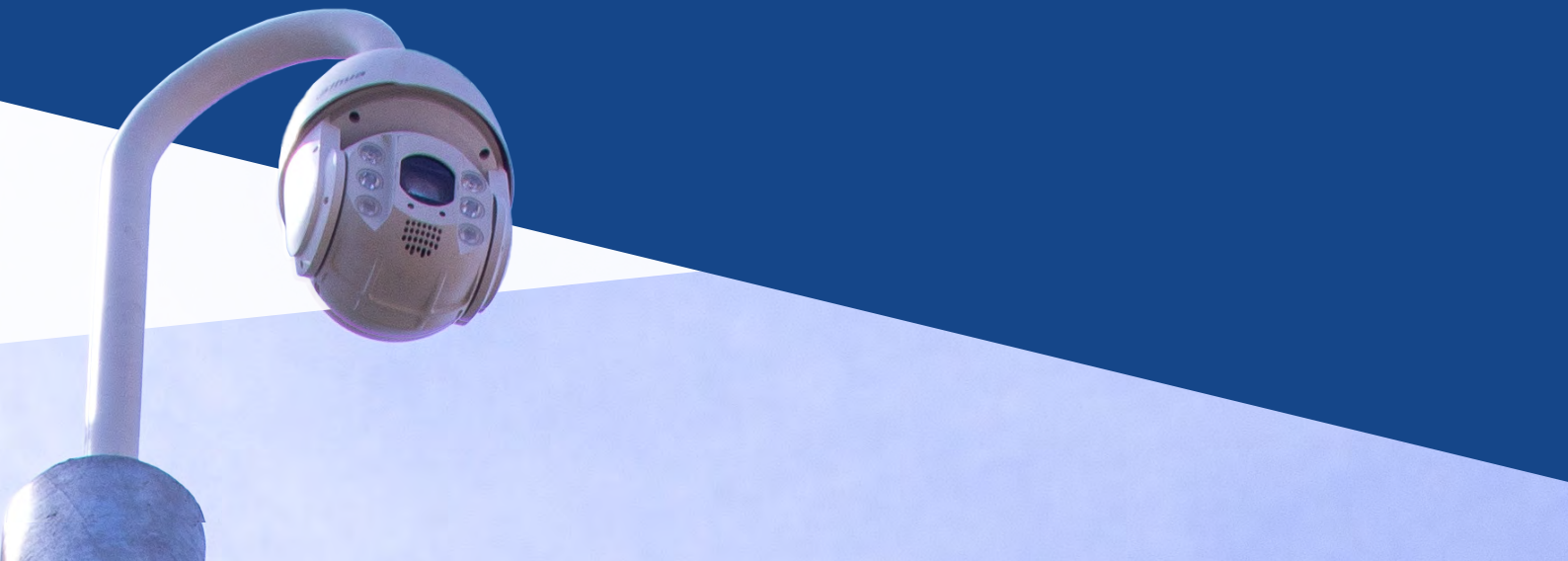
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°–160°/s; Tilt: 0.1°–120°/s
Preset Speed	300
Tour	8 (up to 32 presets per tour)

SMART EVENT

IVS	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; linkage tracking
-----	--

AUDIO

Audio Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723
-------------------	---



INTELLIGENCE

Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Detection	Yes
People Counting	Yes
Auto Tracking	Preset; Pattern; Tour; Scan
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset; Pattern; Tour; Scan

NETWORK

Network Port	RJ-45 (10/100 Base-T)
4G-Wireless Frequency Range	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: Band 38/40 WCDMA: Band 1/5/8 GSM: 850/900/1800 MHz
Interoperability	ONVIF (Profile S&G&T); CGI; Dahua SDK; GA/T 1400; SDK; API
User/Host	20 (total bandwidth: 64 MB)
Storage	FTP; Micro SD card (256 GB); NAS
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS; ConfigTool; NVR; Smart Player; Imou; NetSDK
Mobile Client	iOS; Android; iPhone; iPad; Windows Phone

VIDEO

Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream)
Steaming Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 2816 kbps–8192 kbps H.265: 1024 kbps–7936 kbps
Day/Night	Auto (ICR); Colour; B/W
BLC	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Region of Interest (RoI)	Yes
Image Stabilisation	EIS
Defog	Electronic Defog
Digital Zoom	16x
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥ 55 dB

TECHNICAL SPECS: PTZ CAMERA



CERTIFICATION

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Interoperability	ONVIF (Profile S&G&T); CGI; Dahua SDK; GA/T 1400; SDK; API
User/Host	20 (total bandwidth: 64 MB)
Storage	FTP; Micro SD card (256 GB); NAS
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS; ConfigTool; NVR; Smart Player; Imou; NetSDK
Mobile Client	iOS; Android; iPhone; iPad; Windows Phone

CERTIFICATION

Certification	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
---------------	--

PORT

Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on-off value output; audio; sending email; waking up
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
Alarm I/O	2/1
Alarm I/O	1/1

POWER

Power Supply	12 VDC, 4 A (−10% to +25%)
Power Consumption	Sleep: ≤ 1 W Basic: 4.0 W (not pulling stream in 4G), 7.4 (pulling stream in 4G) Max.: 27 W (illuminator + heater + PTZ + speaker + pulling stream in 4G)

ENVIRONMENT

Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	≤ 95%
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection

STRUCTURE

Casing	ADC12
Dimensions	325.0 mm × Φ202.0 mm (12.80" × Φ7.95")
Net Weight	4.4 kg (9.70 lb)
Gross Weight	6.4 kg (14.11 lb)

**Certified to keep watch
and increase safety.**



COMMUNICATE ANYTIME, ANYWHERE



Ninehundred
Communications
Group

Keep up to date with our latest news!



0845 600 4 900

www.ninehundred.co.uk
sales@ninehundred.co.uk

White Rose Way | Doncaster Carr | Doncaster | DN4 5JH



For more information &
to view our accreditations,
Scan here!

Ninehundred Communications Group does not accept any liability. All specifications are subject to change without notice.

Ninehundred Communications Group holds accreditations and memberships, typically, by way of annual external auditing to provide you with peace of mind that you are dealing with a company who is continually striving to improve performance.