



KIT/DH-PFM378-B125-CB/DH-SD49425DB-HNY-GQ-EAU

Integrated Solar Monitoring System(Without Lithium Battery)

Présentation du système

Integrated solar monitoring system (without lithium battery), all in one design, using 4G to transfer monitoring data and solar to power, which is easy/quick to install and can save wiring to the greatest extent, includes three parts: 4G camera, integrated solar power system and camera's mounting bracket, which is more convenient for sale, order and transportation.

The integrated solar power system, integrating solar panels, maximum power point tracking (MPPT) charging controller and mounting brackets, provides stable power supply for the front-end data acquisition system—4G network camera through high conversion charging device. It is compact, portable, easy to install, disassemble and maintain compared with conventional system. Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day. Camera supports multi-angle flexible adjustment.

Caractéristiques

Support de montage

Le support est fabriqué en acier 201, ce qui le rend à la fois solide et durable. Il est idéal pour l'installation de panneaux solaires, de piles au lithium et de caméras. Il est conçu pour faciliter l'installation et la maintenance du système solaire.

Panneau solaire monocristallin

Adoptez un panneau solaire monocristallin pour améliorer considérablement l'efficacité de la absorption optique et la performance de la production d'énergie en cas de lumière sombre.

· Solar Power System

- Integrated design, easy to install
- Pole mount
- Angle flexible adjustment of solar panel and camera mount
- 125W monocrystalline solar panel
- Aluminum alloy frame
- Built sturdy to resist storms with sustained winds up to 117 km/h (Note: The following four functions are only supported when battery power is used.)
- Remote monitoring available through the mobile app
- Maximum Power Point Tracking (MPPT) charging controller
- RS-485 communication
- Electric protection

· 4G Network PTZ Camera

- 1/2.8" 4Megapixel STARVIS™ CMOS
- 25x optical zoom
- Starlight technology
- Max. 25/30fps@4M
- IR distance up to 100 m
- Perimeter protection
- Face detection
- SMD 3.0
- IP66
- 4G

(Note: The following four functions are only supported when battery power is used.)

Remote Monitoring with APP

With Dahua cameras, it supports real-time remote monitoring of the system operation status and alarm prompts of battery with APP.

Maximum Power Point Tracking Charging Controller

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

Port RS-485

Le port RS-485 et le protocole Modbus standard répondent aux exigences de communication dans divers scénarios.

Protection électronique

Protection électronique complète Limitation du courant, protection contre les courts-circuits et l'inversion du courant du panneau solaire protection contre l'inversion de la connexion, la surtension, la surcharge et la surchauffe de la batterie au lithium protection contre les surcharges et les courts-circuits de la charge.

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

4G Transmission

The camera supports 4G signal transmission and the following network types: LTE/WCDMA/GSM. And it supports the following frequency band respectively:

LTE-TDD: Dual-band Band 38/40

LTE-FDD: Hepta-band Band 1/3/5/7/8/20/28

WCDMA: Tri-band Band 1/5/8

GSM: Tri-band Band 850/900/1800

SMD

Empowered by Deep-Learning Algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Technical Specification

Integrated Solar Power System (Without Lithium Battery)

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

Solar Panel

Type	Monocrystalline silicon
Max. Power	125 W
Output Voltage	18.8 VDC
Solar Cell Efficiency	21%
Max. Mechanical Load	5400 Pa

Controller

Type	MPPT
Operating Voltage	12 VDC
Rated Charging Current	10 A
Rated Discharge Current	10 A
MPPT Tracking Efficiency	≥ 99%
Communication Mode	RS485
Over-discharge Protection Voltage	11.1 VDC

Port

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

General

Main Body Material	Q235 steel/aluminum
IP Rating	IP65
Installation	Pole mount, Φ80 mm–Φ150 mm
Adjustable Angle	Solar panel: H: 360°, V: 10°/20°/30°/40°/50°
Product Dimensions	875 mm × 761.9 mm × 951.9 mm (34.45" × 30.00" × 37.48")
Packaging Dimensions	930 mm × 825 mm × 275 mm (36.61" × 32.48" × 10.83")
Net Weight	20.1 kg (44.31 lb)
Gross Weight	26 kg (57.32 lb)

Environment

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

Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Storage Humidity	< 95% (RH)

Certifications

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
----------------	--

4MP 25x Starlight IR 4G Network PTZ Camera

Model	DH-SD49425DB-HNY-GQ-EAU
-------	-------------------------

Camera

Image Sensor	1/2.8" CMOS
Pixels	4 MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	256 MB
RAM	512 MB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)
Illumination Distance	100 m (328.08 ft) (IR)
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off
Illuminator Number	3 (IR)

Lens

Lens Type	5 mm–125 mm			
Max. Aperture	F1.6–F3.6			
Field of View	H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7°			
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m–0.5 m (0.33 ft–1.64 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	2500 m (8208.10 ft)	987.5 m (3239.83 ft)	500 m (1640.42 ft)	250 m (820.21 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°/s–80°/s Tilt: 0.1°/s–80°/s
Preset Speed	300

Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Pattern; Preset; Scan; Tour
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)

Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Face Detection	Supports face detection, capturing snapshots, and enhancing face images. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing and quality first.
SMD	Yes

Video

Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Stream Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2304 × 1296); 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 @ (1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 2816 kbps–13056 kbps H.265: 1024 kbps–7936 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Image Stabilization	Electronic (EIS)
Defog	Electronic
Digital Zoom	16×

Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
S/N Ratio	≥55 dB

Audio

Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
-------------------	---

Réseau

Port Réseau	RJ-45 (10/100 Base-T)
Système de réseau d'opérateurs	4G; 3G; 2G
Wireless Carrier Frequency Band	LTE-TDD: Dual-band Band 38/40 LTE-FDD: Hepta-band Band 1/3/5/7/8/20/28 WCDMA: Tri-band Band 1/5/8 GSM: Tri-band Band 850/900/1800
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
Interopérabilité	CGI; SDK; ONVIF (Profil S&G&T)
Méthode de diffusion	Monodiffusion/Multidiffusion
Utilisateur/Hôte	20 (bande passante totale : 64 Mo)
Stockage	FTP ; Carte Micro SD (512 Go) ; NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DSS; DMSS; NVR; Smart PSS; IVSS
Client mobile	iOS; Android

Certification

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

Port

RS-485	1 (vitesse de transmission : 1 200 bps-9 600 bps)
Entrée Audio	1 canal
Sortie Audio	1 canal
Liaison d'alarme	Capture ; enregistrement ; envoi d'un courrier électronique ; pré-réglage ; modèle ; visite ; entrée numérique d'alarme
Événement d'alarme	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
E/S d'alarme	2/1
E/S Audio	1/1

Power

Power Supply	12 VDC, 3 A (-10% to +25%)
Power Consumption	Deep sleep: 0.05 W light sleep: 2.5 W Basic: 3.75 W (not pulling stream in 4G); 4.54 W (pulling stream in 4G); 7.98 W (illuminator+not pulling stream in 4G); 8.77 W (illuminator+pulling stream in 4G) Max: 15.49 W (illuminator+PTZ+pulling stream in 4G)

Environment

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤ 95%
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	270.4 mm × Φ160 mm (10.65" × Φ6.30")
Poids Net	2,6 kg (5,73 livres)
Poids Brut	4,2 kg (9,26 livres)

Informations sur le produit

Type	Modèle	Description
Série Solaire	KIT/DH-PFM378-B125-CB/DH-SD49425DB-HNY-GQ-EAU	KIT : Système d'alimentation solaire intégré de 125 W (sans batterie au lithium) / Caméra réseau PTZ 4G 25x Starlight IR 4Mpx
Accessoires (En option)	PFM372-L45-4S14P	Batterie solaire au lithium intégrée

Accessoires

En Option :

PFM372-L45-4S14P
Batterie solaire au lithium intégrée