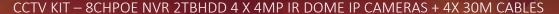
# VK2200







## **KIT INCLUDES**

1 X **DC9114237** - 8 Channel Smart 1U 4PoE NVR 4 X **DC9158047** - 4MP WDR IR Mini-Dome Camera 4 X 30m Cat5 Cables





- · H.265/H.264 codec decoding
- $\cdot \ \text{Max 80Mbps Incoming Bandwidth}$
- · Up to 8MP Resolution for Preview and Playback
- · HDMI/VGA simultaneous video output
- · Support IPC UPnP, 4PoE ports
- · Support ANR technology to enhance the storage reliability when the network breaks down



**DC9158047** - 4MP WDR IR Mini-Dome Camera

- ·1/3" 4Megapixel progressive CMOS
- ·H.265& H.264 dual-stream encoding
- ·20fps@4M(2688×1520)
- &25/30fps@3M(2304×1296)
- ·WDR(120dB), Day/Night(ICR), 3DNR,
- AWB, AGC, BLC
- ·Multiple network monitoring: Web view-
- er, CMS(DSS/PSS) &DMSS
- ·Micro SD card slot, up to 128GB
- ·2.8 mm fixed lens
- ·Max IR LEDs Length 30m
- ·IP67, IK10, PoE



30m Cat5 Cables

# DC9114237



## 4/8 Channel Smart 1U 4PoE 4K&H.265 Lite Network Video Recorder



- · H.265/H.264 codec decoding
- · Max 80Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- · HDMI/VGA simultaneous video output
- Support IPC UPnP, 4PoE ports
- Support ANR technology to enhance the storage reliability when the network break down













#### **System Overview**

Dahua's NVR4000-4KS2 is the first Lite series NVRs which can support 4K and H.265. And, it has the most reasonable price and best quality. This Lite NVR provides up to 8MP resolution. For applications where details are critical for identification, it provides a powerful image performace with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

Designed as a cost-effective, easy installation, this NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with IP cameras.

#### **Functions**

4K Resolution

The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (Optional)

Working with built-in intelligent video analytics IP cameras, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, People Counting, ideal for business intelligence, and Face Detection, for searching or identification of individuals.

Smart Add

With the Smart Add function, the installation of IP system is as easy as an analog system, no matter the NVR with or withou a PoE switch embeded. It should be noted that the NVR has to be in the same router as cameras.

ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.

Easy4ip

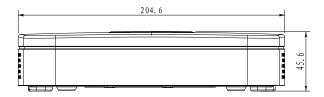
You can monitor at anytime and anywhere with Easy4ip. With this function, you can manage your devices more convenient.

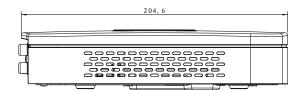
<b>Technical Specification</b>		Audio and Video	
System		IP Camera Input	4/8 Channel
Main Processor	Quad-core embedded processor	Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Operating System	Embedded LINUX	Recording	
Display		Compression	H.265/H.264
Interface	1 HDMI, 1 VGA	Resolution	8Mp/ 6Mp/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc.
Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768	Record Rate	80Mbps
	4CH: 1/4	Bit Rate	16Kbps ~ 20Mbps Per Channel
Multi-screen Display	8CH: 1/4/8/9	December Made	Manual, Schedule (Regular, Continuous), MD
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	Record Mode	(Video detection: Motion Detection, Tampering, Video Loss), Stop
Video Detection and Ala	rm	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Network	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	Interface	1 RJ-45 Port (10/100Mbps)
Alarm input	N/A	Ethernet Port	1 Independent 100Mbps Ethernet Port
Relay Output	N/A	PoE	4 ports (IEEE802.3at/af)(4Mbps is recommended per channel)
Playback and Backup		Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, IP Search (Support Dahua IP camera, DVR, NVS,
Playback	4CH: 1/4		etc.), Easy4ip
	8CH: 1/4/8	Max. User Access	128 users
Search Mode	Time /Date, MD and Exact Search (accurate to second), Smart search	Smart Phone	iPhone, iPad, Android
Discharle Superior	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	Interoperability	ONVIF 2.4, CGI Conformant
Playback Function		Electrical	
Backup Mode	USB Device/Network	Power Supply	DC48V/1.5A
Storage		Power Consumption	NVR: <7.5W (Without HDD)
Internal HDD	1 SATA III Port, Up to 6 TB capacity for each HDD		PoE: Max 25.5w for single port, 50w in total
		Environmental	
HDD Mode	Single	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
eSATA	N/A	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Auxiliary Interface		Construction	
USB	2 USB Ports (2 USB2.0)	Dimensions	Smart 1U, 204.6mm×204.6mm×45.6mm (8.1" x 8.1" x 1.8")
RS232	N/A	Net Weight	0.45kg (0.99 lb) (without HDD)
RS485	N/A	Gross Weight	1.5kg(3.31 lb)(without HDD)
Third-party Support		Certifications	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more	CE	EN55032, EN55024, EN50130-4, EN60950-1
		FCC	Part 15 Subpart B, ANSI C63.4-2014
		UL	UL60950-1+CAN/CSA C22.2 No.60950-1

# DC9114237

Ordering Information				
Туре	Part Number	Description		
4 Channel NVR	DHI-NVR4104-P-4KS2	4 Channel Smart 1U 4PoE 4K&H.265 Lite Network Video Recorder		
8 Channel NVR	DHI-NVR4108-P-4KS2	8 Channel Smart 1U 4PoE 4K&H.265 Lite Network Video Recorder		
Accessories	N/A	N/A		

## Dimensions (mm)





# DC9158047

### 4MP WDR IR Mini-Dome Network Camera





System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP/5MP resolution with a 2.8mm/3.6mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

#### **Functions**

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

#### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

#### Protection (IP67, IK10, wide voltage)

The camera allows for ±10% input voltage tolerance, suitable for the

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- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

#### Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

BLC Mode

BLC / HLC / WDR(120dB)

Technical S	pecification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera			Gain Control	Auto/Manual				
Image Sensor		1/3" 3Megapixel progresive CMOS			Noise Reduction	3D DNR		
Effective Pixels		2688(H)x15	2688(H)x1520(V)			Motion Detetion	Off / On (4 Zone, Rectangle)	
RAM/ROM		512MB/32N	ИB			Region of Interest	Off / On (4 Zone)	
Scanning System	n	Progressive				Electronic Image Stabilization	N/A	
Electronic Shutt	er Speed	Auto/Manu	al, 1/3~1/100	)000s		(EIS) Smart IR	Support	
Minimum Illumi	nation		.0( Color,1/3s )( Color,1/30s R on)			Digital Zoom	16x	
S/N Ratio		More than				Flip	0°/90°/180°/270°	
IR Distance			to 30m(98ft	)		Mirror	Off / On	
IR On/Off Contr	ol	Auto/ Manu				Privacy Masking	Off / On (4 Area, Rectangle)	
IR LEDs	OI	24				Audio		
		2-1				Compression	N/A	
Lens		Fi d				Network		
Lens Type		Fixed				Ethernet	RJ-45 (10/100Base-T)	
Mount Type Focal Length		Board-in 2.8mm (3.6mm optional)			Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP		
Max. Aperture		F2.0/F2.0			Interoperability	ONVIF, PSIA, CGI		
Angle of View		H:104°/87°, V:57°/48°			Streaming Method	Unicast / Multicast		
Focus Control		Fixed		Max. User Access	10 Users / 20 Users			
Close Focus Dist	ance	N/A			NAS			
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	Local PC for instant recording Micro SD Card 128GB	
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)	Web Viewer	IE, Chrome, Firefox, Safari	
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)	Management Software	Smart PSS, DSS,Easy4ip	
PTZ						Smart Phone	IOS, Android	
Pan/Tilt Range		Pan:0° ~355	5° ;Tilt:0° ~65°	';Rotation:0° ^	~355°	Certifications	ifications	
Video			Certifications	CE (EN 60950:2000) UL:UL60950-1				
Compression		H.265+/H.265/H.264+/H.264			Certifications	FCC: FCC Part 15 Subpart B		
Streaming Capa	bility	2 Streams			Interface			
Pacalutian	4M(2688x1520/2560x1440)/3M(2304×1296)/ ion 1080P(1920×1080)/720P(1280×720)/		Video Interface	N/A				
Resolution 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)		Audio Interface	N/A					
Frame Rate		4M(1 ~ 20fps)/3M (1 ~ 25/30fps)			RS485	N/A		
D1/CIF(1 ~ 25/30fps)		Alarm	N/A					
Bit Rate Control		CBR/VBR		Electrical				
Bit Rate			~ 8448Kbps ~ 10240Kbps			Power Supply	DC12V PoE(802.3af)(Class 0)	
_ 6		H.264: 32K ~ 10240Kbps			Power Consumption	<4.6W		
Day/Night			Color / B/W					
DIC Mode		DIC/UIC/	MIDD(12040)					

#### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal
Dimensions	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

### Accessories

### Optional:









PFA136 Function Box

PFB203W Wall mount

PFA152-E Pole mount

PFA200W Rain Shade

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152-E	
Wall Mount		
PFB203W		
	Pole Mount with Rain Shade	
	PFB203W + PFA152-E+PFA200W	
Wall Mount with Rain Shade PFB203W+PFA200W		

## Dimensions (mm/inch)

