VK2000







KIT INCLUDES

1 X DC9112037 - 4 Channel Smart 1U 4 PoE NVR 2 X DC9158047 - 4MP WDR IR Mini-Dome Camera 2 X 30m Cat5 Cables



DC9112037 - 4 Channel Smart 1U 4 PoE NVR

- · 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 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
- ·2.8 mm fixed lens
- ·Max IR LEDs Length 30m
- ·IP67, IK10, PoE



30m Cat5 Cables

DC9112037



4 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
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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

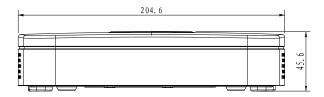
You can monitor at anytime and anywhere with Easy4ip. With this function, you can manage your devices more convenient.

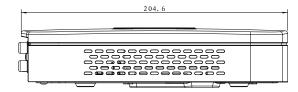
Technical Specification		Audio and Video	
System		IP Camera Input	4 Channel
Main Processor	Quad-core embedded processor	Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Operating System	Embedded LINUX	Recording	
Display		Compression	H.265/H.264
Interface	1 HDMI, 1 VGA	Resolution	8MP/ 6MP/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc.
Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768	Record Rate	80Mbps
Multi scroon Display	4CH: 1/4	Bit Rate	16Kbps ~ 20Mbps Per Channel
Multi-screen Display	8CH: 1/4/8/9	Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering,
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		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	4CH: 1/4	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4ip
Playback		Max. User Access	128 users
Search Mode	Time /Date, MD and Exact Search (accurate to second), Smart search	Smart Phone	iPhone, iPad, Android
	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	DC 48V/1.5A
Storage		Power Consumption	NVR: <7.5W (Without HDD)
		. Civer consumption	PoE: Max 25.5w for single port, 50w in total
Internal HDD	1 SATA III Port, Up to 6 TB capacity for each HDD	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,	CE	EN55032, EN55024, EN50130-4, EN60950-1
	Pelco, Samsung, Sanyo, Sony, Videotec, and more	FCC	Part 15 Subpart B, ANSI C63.4-2014
		UL	UL60950-1+CAN/CSA C22.2 No.60950-1

DC9112037

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		

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

- · 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 viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.8 mm fixed lens
- · 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 Specification			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Camera			Gain Control	Auto/Manual			
Image Sensor		1/3" 4 Megapixel progresive CMOS			Noise Reduction	3D DNR	
Effective Pixels		2688(H)x1520(V)			Motion Detetion	Off / On (4 Zone, Rectangle)	
RAM/ROM		512MB/32M	ИB			Region of Interest	Off / On (4 Zone)
Scanning Syster	m	Progressive			Electronic Image Stabilization	N/A	
Electronic Shutt	ter Speed	Auto/Manu	al, 1/3~1/100	0000s		(EIS) Smart IR	Support
Minimum Illumi	ination	0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE)			Digital Zoom	16x	
S/N Ratio		0Lux/F2.0(I				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		-			Network		
Lens Type			Fixed			Ethernet	RJ-45 (10/100Base-T)
Mount Type Focal Length		Board-in 2.8mm			Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCF;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	tance Lens	N/A Detect Observe Recognize Identify		Edge Storage	NAS 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
						Management Software	Smart PSS, DSS,Easy4ip
Manual P	ΓZ					Smart Phone	IOS, Android
Pan/Tilt Range		Pan:0° ~355	5° ;Tilt:0° ~65°	';Rotation:0° ^	~355°	Certifications	
Video						CE (EN 60950:2000)	,
Compression		H.265+/H.2	65/H.264+/H	.264		Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capa	bility	2 Streams			Interface		
4M(2688x1520/2560x1440)/3M(2304×1296)/		Video Interface	N/A				
		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	Rate Control CBR/VBR			Electrical			
H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps		Power Supply	DC 12V PoE (802.3af)(Class 0)				
Day/Night					Power Consumption	<4.6W	
Day/Night		Auto(ICR) / Color / B/W					

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)

