

# DHI-NVR2204-P-4KS2

4 Channel 1U 2HDDs 4PoE Lite 4K H.265 Network Video Recorder



- · Smart H.265+/Smart H.264+/H.265/H.264
- · Max 80Mbps incoming bandwidth
- · Up to 8Mp resolution preview&playback
- · Up to 1ch@8MP/4ch@1080P decoding
- · HDMI/VGA simultaneous video output
- · Support IPC UPnP, 4PoE ports











### **System Overview**

Dahua NVR2000-4KS2 is capable of transmitting 8MP image. It helps to save up to 50% HDD and storage space with its H.265 decoding technology compared with H.264.

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications such as home safety, grocery, warehouse, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with IP cameras.

#### **Functions**

#### SMD Plus by Camera

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### **4K Resolution**

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

#### **Smart Codec**

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

## 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 device and then recorded in it.

#### DMSS

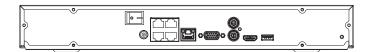
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

System         Date of membedied processor         Member (Member)         Chebrook         Chebrook         Member (Member)	Technical Specification		Third-party Support	
NetWork	System		Third-party Support	Onvif, RTSP
Interface   R.Rf-5 port (DA/100/000/000000)   Reference   R.Rf-5 port (DA/100/00000000)   Reference   R.Rf-5 port (DA/100/000000000)   Reference   R.Rf-5 port (DA/100/00000000)   Reference   R.Rf-5 port (DA/100/00000000)   Reference   R.Rf-5 port (DA/100/00000000)   Reference   R.Rf-5 port (DA/100/00000000)   Reference   R.Rf-5 port (DA/100/0000000)   Reference   R.Rf-5 port (DA/100/000000)   Reference   R.Rf-5 port (DA/100/0000000)   Reference   R.Rf-5 port (DA/100/000000000)   Reference   R.Rf-5 port (DA/100/0000000000)   Reference   R.Rf-5 port (DA/100/000000000000)   Reference   R.Rf-5 port (DA/100/000000000000000000000000000000000	Main Processor	Dual-core embedded processor	Network	
PoE	Operating System	Embedded LINUX	Interface	1 RJ-45 port (10/100Mbps)
Network Function	Audio and Video		PoE	4 ports (IEEE802.3at/af)
Two-way Talk	IP Camera Input	4 Channel		
Note	Two-way Talk	1 Channel Input, 1 Channel Output, RCA	Network Function	
Resolution         IMMI: 38dBx2150, 1920×1080, 1280×1024, 1280×202         Smart Phone         IPhone, IPad, Android           Decoding Capacity         1xh89MP 30fps, 4ch @1880P 30fps         Storage           Multi-screen Display         1/4         Smart Phone         Storage           Recording         2x87A III ports, up to 10 T8 for a single HDD. The maximum HDD capacity varies with environment engeneration.           Recording         HDD Mode         Single           Recording         ±55 H1.265 /H1.265 /Mart H2.64 /H1.264         AUXIII ary Interface           Record Record Mode         MM/96MP/3MP/4MP/3MP/1080P/720P/018.etc.         RS322         N/A           Record Rete         50Mbps         Electrical         Fleetrical           Record Mode         166kps ~ 20Mbps Per Channel         Electrical           Record Interval         1710 mm (Befault 60 mm, Pre-record 1~30 sec, polymer chronic through on the pre-record 1~30 sec, polymer chroni	Display		Optical Fiber Interface	N/A
Resolution         1280x270         Interoperability         ON/IF 24, SDK, CGI           Decoding Capacity         1ch (98MP) 3cfps, 4ch e1080P 3cfps         Storage           Multi-screen Display         1/4         Internal HDD         2 SATA III ports, up to 10 TB for a single HDD. The maximum HDC capacity varies with environment temperature           Recording         Example 10 (Life Maximum HDC capacity varies with environment temperature)         4 Single           Recording         EATA         N/A           Recording         AUXIliary Interface           Compression         Smart H.265 /H.265/Smart H.264 /H.264         AUXIliary Interface           Resolution         8MP/GMP/SMP/3MP/3MP/1080P/720P/D18etc.         RS.322         N/A           Record Rate         8MMbps         RS.485         N/A           Record Mode         Mannal, Schedule (Continuous, MD (Motion)         Power Supply         Single, DCA8V/L.5A           Record Interval         1-120 min (lefault: 60 min), Pre-record: 1-30 sec, Popt-record: 1-30 sec, Popt-recor	Interface	1 HDMI, 1 VGA	Max. User Access	128 users
No.			Smart Phone	iPhone, iPad, Android
Decoding Capacity         Inh@RMP 30fps, 4ch@1080P 30fps         Internal HDD         2 SATA Ill ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature           OSD         Camera tifle, Time, Camera lock, Motion detection, Recording         HDD Mode         Single           Recording         eSATA         N/A           Compression         Smart H.265+/H.265/5mart H.264+/H.264         AUXIIIary Interface           Resolution         AMP/EMP/SMP/JSMP/JSMP/JSMP/JSMP/JSMP/JSMP/JSM	Resolution	VGA: 1920×1080, 1280×1024, 1280×720	Interoperability	ONVIF 2.4, SDK, CGI
Multi-screen Display  74  Multi-screen Display  75  Camera title, Time, Camera lock, Motion detection, Recording  Recording  Compression  75  Resolution  75  Record Made  75  86  87  87  87  87  88  88  88  88  88	Decoding Capacity	1ch@8MP 30fps. 4ch@1080P 30fps	Storage	
Recording			Internal HDD	maximum HDD capacity varies with environment
Recording  Compression  Smart H.265+/H.265/Smart H.264+/H.264  Resolution  Resolution  Record Rate  Smart H.265+/H.265/Smart H.264+/H.264  Resolution  Melson Detection And Continuous, MD (Motion Detection, MD Xmm, WS)  Power Supply  Single, DC48W/1.5A  N/R  NVR: <5.3W (without HDD)  Poet: Max 25.5w for single port, 50w in total  Power Consumption  Poet: Max 25.5w for single port, 50w in total  Environmental  Operating Conditions  10°C to +55°C (+14°F to +131°F), 86–106kpa  Storage Conditions  0°C to +40°C (+32°F to +104°F), 30–85% RH  Alarm input  N/A  Alarm input  N/A  Construction  Relay Output  N/A  N/A  N/A  Sorree Tips  N/A  N/A  Sorree Tips  N/A  N/B  Sync Playback  1/4  Gross Weight  1.05 kg (3.42 lb) (without HDD)  Sync Playback  File, Previous File, Newt Comera, Previous Camera, P	OSD		HDD Mode	Single
Compression   Smart H.265/Fh.265/Smart H.264/H.264   Auxiliary Interface   USB   2 ports (I Rear USB2.0, 1 Front USB2.0)	Recording	Recording	eSATA	N/A
Resolution 8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc. 8M9/6MP/5MP/4MP/3MP/1080P/720P/D1&etc. 8Cord Rate 80Mbps RS485 N/A  Bit Rate 16Kbps ~ 20Mbps Per Channel Electrical Electrical  Record Mode Manual, Schedule (Continuous, MD (Motion Detection), Alarm, NS) Power Supply Single, DC48V/1.5A  Record Interval 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec Post-record:	_	Smart H.265+/H.265/Smart H.264+/H.264	Auxiliary Interface	
Record Rate  80Mbps  RS232  RS232  N/A  RS485  N/A  RS485  N/A  RS485  RS485  N/A  Record Mode  16Kbps ~ 20Mbps Per Channel  Electrical  Record Mode  Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IvS)  Record Interval  1°20 min (default: 60 min), Pre-record: 1°30 sec, Post-record: 10°30 sec Post-record: 10°300 sec  Power Consumption  Poer Consumption  Poer Max 25.5w for single port, 50w in total  Environmental  Screen Tips  Video Detection  Motion Detection, MD Zones: 396 (22 x 18), and Tampering  N/A  Alarm input  N/A  Relay Output  N/A  N/A  Playback and Backup  Sync Playback  1/4  Search Mode  Time / Date, MD and Exact Search (accurate to second)  Play Pause, Stop, Rewind, Fast play, Slow Play, Next Fill Screen, Shuffle, Backup Selection, Digital Zoom  Playback Markes  Play Markes  Play Markes  Play Sunge, Stop, Rewind, Fast play, Slow Play, Next Fill Screen, Shuffle, Backup Selection, Digital Zoom  Play Markes  Play Sunge, Stop, Rewind, Fast play, Slow Play, Next Fill Screen, Shuffle, Backup Selection, Digital Zoom  Play Markes  Play Sunge, Stop, Rewind, Fast play, Slow Play, Next Fill Screen, Shuffle, Backup Selection, Digital Zoom  PCC  Residence of Carbon Screen Shuffle, Backup Selection, Digital Zoom  PCC  Part 15 Subpart B, ANSI C63.4-2014	Resolution	8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc	USB	2 ports (1 Rear USB2.0, 1 Front USB2.0)
Bit Rate 16Kbps ~ 20Mbps Per Channel Electrical  Record Mode Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)  Video Detection and Alarm  Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Potentian and Tampering And Tampering Storage Conditions O"C to +55°C (+14°F to +131°F), 86–106kpa Storage Conditions O"C to +40°C (+32°F to +104°F), 30–85% RH  Alarm input N/A Construction  Relay Output N/A Dimensions(W×D×H) 1.55 kg (3.42 lb) (without HDD)  Sync Playback and Backup Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoon Part 15 Subpart B, ANSI C63.4-2014			RS232	N/A
Record Mode Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)  Record Interval 1°-120 min (default: 60 min), Pre-record: 1°-30 sec, Post-record: 10°-300 sec Post-record: 10°-300 sec Power Consumption PoE: Max 25.5w for single port, 50w in total  Video Detection and Alarm  Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Operating Conditions -10°C to +55°C (+14°F to +131°F), 86–106kpa Orac to +40°C (+32°F to +104°F), 30–85% RH  Alarm input N/A Construction  Relay Output N/A Dimensions(WxDxH) 1U, 375 mm x 275 mm x 53 mm (14.8" x 10.8" x 2.1")  Playback and Backup  Sync Playback 1/4 Gross Weight 1.55 kg (3.42 lb) (without HDD)  Sync Playback Function Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Fill Screen, Shuffle, Backup Selection, Digital Zoom  Playback Market Results (Part 15 Subpart B, ANSI C63.4-2014)	Record Rate		RS485	N/A
Record Interval  Power Supply  Record Interval  Power Consumption  Poet Max 25.5w for single port, 50w in total  Poet Max 25.5w for single port, 50w in total  Environmental  Poet Max 25.5w for single port, 50w in total  Environmental  Poet Max 25.5w for single port, 50w in total  Environmental  Poet Max 25.5w for single port, 50w in total  Environmental  Operating Conditions  10°C to +55°C (+14°F to +131°F), 86–106kpa  Storage Conditions  O°C to +40°C (+32°F to +104°F), 30–85% RH  Alarm input  N/A  Construction  Playback and Backup  Net Weight  1.55 kg (3.42 lb) (without HDD)  Sync Playback  Play Pause, Stop, Rewind, Fast play, Slow Play, Next Flie, Previous Flie, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Poet Consumption  NNR: <5,3W (without HDD)  Poet: Max 25.5w for single port, 50w in total  Environmental  Coperating Conditions  -10°C to +55°C (+14°F to +131°F), 86–106kpa  10°C to +40°C (+32°F to +104°F), 30–85% RH  Construction  Play, 50 mm × 275 mm × 53 mm (14.8° × 10.8° × 2.1°)  Net Weight  1.55 kg (3.42 lb) (without HDD)  Sync Playback  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next Flie, Previous Flie, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Provious Flies, Previous Flies, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom	Bit Rate		Electrical	
Video Detection and Alarm  Trigger Events  Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips  Video Detection  Motion Detection, MD Zones: 396 (22 x 18), and Tampering  N/A  Alarm input  N/A  Construction  Relay Output  N/A  Playback and Backup  Sync Playback  1/4  Search Mode  Time /Date, MD and Exact Search (accurate to second)  PoE: Max 25.5w for single port, 50w in total  Environmental  Operating Conditions  -10°C to +55°C (+14°F to +131°F), 86–106kpa  Storage Conditions  O°C to +40°C (+32°F to +104°F), 30–85% RH  Construction  Dimensions(W×D×H)  1/2, 375 mm × 275 mm × 53 mm (14.8" × 10.8" × 2.1")  Sync Playback and Backup  Sync Playback  1/4  Gross Weight  1.55 kg (3.42 lb) (without HDD)  Certifications  Certifications  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Procedure of the power Consumption  PoE: Max 25.5w for single port, 50w in total  Environmental  Operating Conditions  -10°C to +55°C (+14°F to +131°F), 86–106kpa  -10°C to +40°C (+32°F to +104°F),	Record Mode		Power Supply	Single, DC48V/1.5A
Video Detection and Alarm  Trigger Events  Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips  Wideo Detection  Motion Detection, MD Zones: 396 (22 x 18), and Tampering  Alarm input  N/A  Construction  Relay Output  N/A  Playback and Backup  Sync Playback  1/4  Search Mode  Time / Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Playback Made   Recording, PTZ, Tour, Video Push, Snapshot, and Environmental  Operating Conditions  -10°C to +55°C (+14°F to +131°F), 86–106kpa  Tore C to +40°C (+32°F to +104°F), 30–85% RH  Construction  Play Pause, Stop, Remind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  PCC  Part 15 Subpart B, ANSI C63.4-2014	Record Interval	· · · · · · · · · · · · · · · · · · ·	Power Consumption	NVR: <5.3W (without HDD)
Trigger Events  Screen Tips  Wideo Detection  Motion Detection, MD Zones: 396 (22 × 18), and Tampering  N/A  Construction  Playback and Backup  Sync Playback  1/4  Search Mode  Time /Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Proceeding Conditions  -10°C to +55°C (+14°F to +131°F), 86–106kpa  -10°C to +40°C (+32°F to +104°F), 30–85% RH  -10°C to +40°C (+32°F to +104°F), 30–85% RH  -10°C to +40°C (+32°F to +104°F), 30–85% RH  -10°C to +55°C (+14°F to +131°F), 86–106kpa  -10°C to +55°C (+14°F to +131°F), 86–106kpa  -10°C to +40°C (+32°F to +104°F), 30–85% RH  -10°C to +40°C	Video Detection and Alarm			PoE: Max 25.5w for single port, 50w in total
Video Detection  Motion Detection, MD Zones: 396 (22 × 18), and Tampering  Storage Conditions  O°C to +40°C (+32°F to +104°F), 30–85% RH  Alarm input  N/A  Construction  Playback and Backup  Sync Playback  1/4  Search Mode  Time /Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Poperating Conditions  -10°C to +40°C (+32°F to +104°F), 30–85% RH  Construction  1/2, 375 mm × 275 mm × 53 mm (14.8" × 10.8" × 2.1")  Net Weight  1.55 kg (3.42 lb) (without HDD)  Certifications  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1  FCC  Part 15 Subpart B, ANSI C63.4-2014	Trigger Events		Environmental	
Alarm input  N/A  Construction  Relay Output  N/A  Dimensions(W×D×H)  Playback and Backup  Search Mode  Time /Date, MD and Exact Search (accurate to second)  Playback Function  Playback Function  Storage Conditions  O°C to +40°C (+32°F to +104°F), 30–85% RH  Construction  Dimensions(W×D×H)  1U, 375 mm × 275 mm × 53 mm (14.8" × 10.8" × 2.1")  Net Weight  1.55 kg (3.42 lb) (without HDD)  Gross Weight  Certifications  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1  FCC  Part 15 Subpart B, ANSI C63.4-2014	Video Detection	Motion Detection, MD Zones: 396 (22 × 18),	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa
Relay Output  N/A  Dimensions(W×D×H)  1U, 375 mm × 275 mm × 53 mm (14.8" × 10.8" × 2.1")  Net Weight  1.55 kg (3.42 lb) (without HDD)  Sync Playback  1/4  Gross Weight  3.0 kg (6.61 lb) (without HDD)  Search Mode  Time /Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Packer Mode  Play Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  PCC  Part 15 Subpart B, ANSI C63.4-2014			Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH
Playback Function  Playback Function  Playback and Backup  Net Weight  1.55 kg (3.42 lb) (without HDD)  Gross Weight  1.55 kg (3.42 lb) (without HDD)  Certifications  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1  FIG. Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Playback Function  Play Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Proceedings of the Authority of the Company of the Co	Alarm input	N/A	Construction	
Sync Playback  1/4  Gross Weight  3.0 kg (6.61 lb) (without HDD)  Search Mode  Time /Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Packer Mode  1/4  Gross Weight  3.0 kg (6.61 lb) (without HDD)  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1  FCC  Part 15 Subpart B, ANSI C63.4-2014	Relay Output	N/A	Dimensions(W×D×H)	
Search Mode  Time /Date, MD and Exact Search (accurate to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Packup Mode	Playback and Backup		Net Weight	1.55 kg (3.42 lb) (without HDD)
Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  Packup Mode  (accurate to second)  CE EN55032, EN55024, EN50130-4, EN60950-1  FCC Part 15 Subpart B, ANSI C63.4-2014	Sync Playback	1/4	Gross Weight	3.0 kg (6.61 lb) (without HDD)
Playback Function  File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom  FCC  Part 15 Subpart B, ANSI C63.4-2014	Search Mode		Certifications	
Full Screen, Shuffle, Backup Selection, Digital Zoom FCC Part 15 Subpart B, ANSI C63.4-2014	Playback Function	File, Previous File, Next Camera, Previous Camera,	CE	EN55032, EN55024, EN50130-4, EN60950-1
Backup Mode USB Device/Network UL UL60950-1			FCC	Part 15 Subpart B, ANSI C63.4-2014
	Backup Mode	USB Device/Network	UL	UL60950-1

# Lite series | DHI-NVR2204-P-4KS2

Ordering Information			
Туре	Part Number	Description	
4 Channel NVR	DHI-NVR2204-P-4KS2	4 Channel 1U 4PoE Lite 4K H.265 Network Video Recorder	
Accessories	N/A	N/A	





# Dimensions (mm)

