

NVR5416-16P-4KS2E

16 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder



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.

ePoE & EoC

The NVR supports 800m ePoE and EoC technology for use in a broad range of application scenarios. ePoE technology simplifies the network structure of long-range surveillance projects, eliminating the requirement for extra network repeater devices, making the system more reliable and easy to deploy. EoC technology makes it possible to upgrade existing systems to high definition IP surveillance while using existing coax cables.

Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically adjusts fan speed according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The NVR offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search Algorithm.

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.

System	
Main Processor	Quad-Core Embedded Processor
Operating System	Embedded LINUX
Audio and Video	
IP Camera Input	16 Channel
Two-way Talk	1 Channel Input, 2 Channel Output, RCA
Display	
Interface	2 HDMI, 2 VGA
Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
	VGA1: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
	HDMI2/VGA2: 1920 × 1080
Decoding Capability	4-Ch@8MP(30fps), 16-Ch@1080P(30fps)
Multi-Screen Display	1st Screen: 1/4/8/9/16
	2nd Screen: 1/4/8/9/16
OSD	Camera Title, Time, Camera Lock, Motion Detection, Recording
Recording	
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD(Motion Detection) , Alarm, IVS), Stop
Record Interval	1 ~ 120 min (Default: 60 min), Pre-Record: 1 ~ 30 sec, Post-Record: 10 ~ 300 sec
Video Detection and Alarm	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm Input	16 Channel
Relay Output	6 Channel
Playback and Backup	
Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, 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, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/eSATA Device
Third-party Support	
Third-Party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more
Network	
Interface	1 RJ-45 Ports (10/100/1000Mbps)
PoE	16 Ports (IEEE802.3af/at)
	1-8 Ports Support ePoE & EoC
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4IP
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI
Storage	
Internal HDD	4 SATA III Ports, Up to 10 TB Capacity for Each HDD
eSATA	1 eSATA

Auxiliary Interface	
USB	3 USB Ports (2 Rear USB 3.0 , 1 Front USB 2.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control
Electrical	
Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: <17.5W (Without HDD)
	PoE: Max 25.5W for Single Port
	150W Total Rated Power, 80% Control for Protection, Smart Fan, Automatically Adjust Running Speed
Fan	Smart Fan, Automatically
Environmental	
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Construction	
Dimensions	1.5U, 440mm x 411.2mm x 76mm (17.3" x 16.2" x 3.0")
Net Weight	4.65kg (10.3 lb) (Without HDD)
Gross Weight	7kg (15.4 lb) (Without HDD)
Installation	Rack-Mounted

Dimensions (mm)

