

NVR301HS-04/P-4KS2/L

4 Channel Smart 1U 1HDD 4PoE Network Video Recorder



Series Overview

NVR301HS-04/P-4KS2/L is introduced as the Lite series NVR that supports for 4K and H.265 encoding technology with excellent performance at an affordable price. For applications where image details are highly required, it delivers the capability of 4K resolution processing. The NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Due to its cost-effective and easy-to-install design, 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 that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF Profile S, T, G protocol, enabling interoperability with IP cameras.

Functions

Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Face Detection by Camera

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

SMD Plus by Camera

With intelligent algorithm, Diamond 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.

- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- Al by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as set ting parameters, getting information, and upgrading IPC of the same model in batches











People Counting by Camera

With deep learning algorithm, Diamond People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Smart Codec

With advanced scene-adaptive rate control algorithm, Diamond 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.

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.

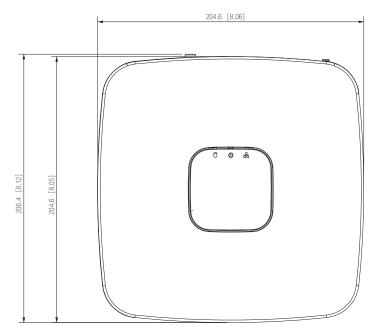
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Network Network Protocol HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Diamond IP camera; DVR; NVS; etc.); P2P; auto register Mobile Phone Access Android; iOS Interoperability ONVIF(profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; firefox Opera Record Playback Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording	Audio	PCM/G711A/G711U/G726/AAC	
Network Protocol UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Diamond IP camera; DVR; NVS; etc.); P2P; auto register Storag Mobile Phone Access Android; iOS Interoperability ONVIF(profile T/S/G); CGI; SDK Storag Record Playback Multi-channel Playback Manual record; alarm recording; SMD recording; smart recording	Network		Product Dimen
NVS; etc.); P2P; auto register Mobile Phone Access Android; iOS Interoperability ONVIF(profile T/S/G); CGI; SDK Storage Browser Chrome; IE9 or later; firefox Operate Record Playback Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm	Package Dimen
Mobile Phone Access Android; iOS Interoperability ONVIF(profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; firefox Record Playback Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording			Operating Cond
Interoperability ONVIF(profile T/S/G); CGI; SDK Storag Record Playback Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording	Mobile Phone Access	Android; iOS	Storage Condition
Record Playback Multi-channel Playback Mecord Mode Manual record; alarm recording; SMD recording; smart recording	Interoperability	ONVIF(profile T/S/G); CGI; SDK	Operating Hum
Record Playback Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording	Browser	Chrome; IE9 or later; firefox	Storage Humidi
Multi-channel Playback Up to 4 channels for playback Record Mode Manual record; alarm recording; SMD recording; smart recording	Record Playback		Operating Altitu
Record Mode recording recording	Multi-channel Playback	Up to 4 channels for playback	Installation
Storage Local HDD; network	Record Mode		Certifications
	Storage	Local HDD; network	
Backup USB storage device	Backup	USB storage device	

Playback Function	Play/pause/stop/slow/quick/backward/by frame Full screen, backup (video clip/file), partial zoom in, and audio on/off
Storage	
Disk Group	Yes
Alarm	
General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception
Intelligent Alarm	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms
Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email
External Port	
Audio Input	1 × RCA input
Audio Output	1 × RCA output
HDD	1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
USB	2 (2 × back USB2.0)
HDMI	1 (supports up to 4K resolution output)
VGA	1
Network	$1 \times RJ-45$, 10/100 Mbps self-adaptive Ethernet port
POE	4
General Parameter	
Power Supply	48 V/53 V DC, 1.25 A/1.13 A
Power Consumption	< 10 W (HDD not included, idling) Total output power of PoE is 36W, the maximum output power of a single port is 25.5W
Net Weight	0.50 kg (1.10 lb)
Gross Weight	1.43 kg (3.15 lb)
Product Dimensions	204.6 mm \times 206.4 mm \times 48.1 mm (8.06" \times 8.12" \times 1.90") (W \times L \times H)
Package Dimensions	96 mm × 364 mm × 261 mm (3.78" × 14.33" × 10.28") (W × L × H)
Operating Conditions	-10 °C to +50 °C (+10 °F to +122 °F)
Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	10%~93%
Storage Humidity	30%~85%
Operating Altitude	3000 m (9842.52 ft)
Installation	Desktop mounted
Certifications	CE: EN62368-1; EN55032,EN55024, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4 FCC: Part 15 Subpart B

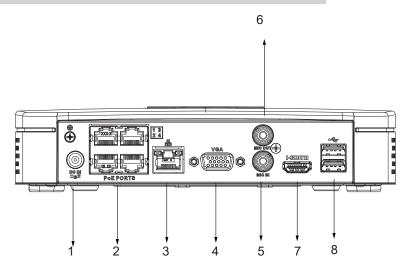
Ordering Information Type Model Description 4 Channel NVR NVR301HS-04/P-4KS2/L 4 Channel Smart 1U 1HDD 4PoE Network Video Recorder

Dimensions (mm[inch])





Panels



1	DC Power Input	2	PoE Ports
3	Network Port	4	VGA Port
5	AUDIO IN, RCA Connector	6	AUDIO OUT, RCA Connector
7	HDMI Port	8	USB Port