

NVR-716NS

16 Channel 1U 16PoE 4K&H.265 Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264
- Max 200Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output
- Support IPC UPnP, 16 PoE ports

System Overview

The 700 series is introduced as the first 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 2.4 protocol, enabling interoperability with IP cameras.

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 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.

Intelligent Video System

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data – Facial Detection, People Counting, and Heat Map – from IP cameras with built-in Intelligent Business Analytics.

Technical Specification

System

Main Processor	Quad-core embedded processor
Operating System	Embedded LINUX

Video

IP Video Input	16 Channel
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Audio

Two-way Talk	1 Channel Input, 1 Channel Output, RCA
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Display

Interface	1 HDMI, 1 VGA
Resolution	HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Decoding Capacity	2ch@4K 30fps, 8ch@1080P 30fps
Display Split	1/4/8/9/16
Privacy Masking	N/A
OSD	Camera title, Time, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	Smart H.265+/H.265/Smart H.264+/H.264
Image Resolution	8Mp/ 6Mp/ 5Mp/ 4Mp/ 3Mp/ 1080P/ 1.3Mp/ 720P etc.
Record Rate	200Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering, Video Loss), Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Video Detection & Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm Input	4 Channel
Relay Output	2 Channel

Playback & Backup

Sync Playback	1/4/9/16
Search Mode	Time /Date, MD and Exact Search (accurate to second), Smart search
Playback Functions	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

Network

Ethernet	1 RJ-45 Port (10/100/1000Mbps)
PoE	16 ports (IEEE802.3at/af)
Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF 2.4, SDK, CGI

Storage

Internal HDD	2 SATA III Ports, Up to 6 TB capacity for each HDD
HDD Mode	Single
External HDD	N/A

Auxiliary Interface

USB	2 ports(1 USB2.0, 1 USB3.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	N/A

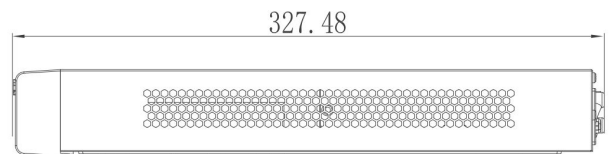
General

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: < 13.2W(without HDD) PoE: Max 25.5w for single port, 130w in total
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Dimensions (W×D×H)	1U, 375mm×327.5mm×53mm (14.8" x 12.9" x 2.1")
Weight	4kg(8.8 lb)(without HDD)

Certifications

Certifications	CE: EN55032, EN55024, EN50130-4, EN60950-1 FCC: Part 15 Subpart B, ANSI C63.4-2014 UL: UL60950-1
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Dimensions (mm/in)



Panels

