

olix[®]

ONVR216-4K-16P

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



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 video from large areas.

Smart H.265+

Smart H.265+ is the optimised 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 recognises and records video that contains IVS data on all IP channels. The NVR records standard intelligence features, as well as premium IVS features that detect abandoned or missing objects, tripwire 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.

ANR (Automatic Network Replenishment Technology)

Network Video Recorders with the ANR function automatically store video data on an IP camera's SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Technical Specification

System	
Main Processor	Quad-Core embedded processor
Operating System	Embedded LINUX
Audio & Video	
IP Camera Input	16
Two-Way Talk	1 Channel Input, 1 Channel Output, RCA
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
Multi-Screen Display	16ch: 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
Resolution	8MP/6MP/5MP/4MP/3MP/1080P/1.3MP/720P
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 (22x18), 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 Function	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

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 Port (10/100/1000Mbps)
Ethernet Port	1 Independent 1000Mbps Ethernet Port
PoE	16 Ports (IEEE802.3af/at)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, 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	2 SATA III Ports, Up to 6TB capacity for each HDD
HDD Mode	Single
Auxiliary Interface	
USB	2 Ports (1 USB 2.0, 1 USB 3.0)
RS232	1 Channel
RS485	N/A
Electrical	
Power Supply	AC100V-240V, 50-60 Hz
Power Consumption	NVR: <13.2w (without HDD) PoE: Max 25.5w for single port, 130w in total
Environmental	
Operating Conditions	-10°C~+45°C (+14°F~+113°F), 86-106kpa
Storage Conditions	-20°C~+70°C (-4°F~+158°F), 0-90% RH
Construction	
Dimensions	1U, 375mm x 327.5mm x 53mm (14.8" x 12.9" x 2.1")
Net Weight	2.6kg (5.7lb)(without HDD)
Gross Weight	4kg (8.8lb)(without HDD)
Certifications	
CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL60950-1

