

MODEL: IDS-NVR4K16CP

16-Channel PoE Network Video Recorder — Ultra 265 / H.265, 4K HDMI Output, 2 × SATA up to 10 TB

PRODUCT OVERVIEW

IDS-NVR4K16CP



16-Channel PoE Input

16 × RJ45 PoE ports, 160 Mbps incoming bandwidth



4K HDMI + VGA

Simultaneous output, up to 3840 × 2160 @ 30 Hz



Ultra 265 / H.265 / H.264

Recording up to 12MP resolution



2 × SATA up to 10 TB

Max capacity varies with environment temperature



ONVIF S / G / T + RTSP

Supports mainstream third-party cameras



128 Remote Users

P2P cloud, web browsers, cloud upgrade

SMART VCA SUITE

AI VCA VIA CONNECTED CAMERAS · SIP 2-CH · UMD 4-CH



Face Detection & Comparison

Face snapshot + search



Smart Intrusion Prevention

Intrusion · cross line · area



People Counting

Flow + crowd density



Traffic Monitoring

Motor & non-motor vehicle



Ultra Motion Detection

4-ch by NVR



Auto Tracking

Scene-change tracking

KEY FEATURES

- ✓ Supports Ultra 265 / H.265 / H.264 video formats
- ✓ 16-channel PoE input — 160 Mbps in / 128 Mbps out
- ✓ ONVIF (Profile S / G / T) + RTSP — third-party cameras
- ✓ HDMI up to 4K (3840×2160) + VGA simultaneous output
- ✓ Records up to 12MP — 12/8/6/5/4/3MP, 1080p and below
- ✓ 2 × SATA interfaces, up to 10 TB per disk
- ✓ 16 PoE ports — 30 W/port, 240 W total (802.3at/af)
- ✓ Smart VCA — face detect + compare, SIP 2-ch, UMD 4-ch
- ✓ VCA search — face, vehicle, body, heat map, AcuSearch
- ✓ 16-ch playback — 1/4/6/8/9/16 view, corridor mode
- ✓ Alarms — motion, tampering, video loss, 8 in / 2 out
- ✓ Compact 1.5U chassis — 380 × 322 × 53 mm, ≤ 2.7 kg

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OUR OFFICE

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TECHNICAL SPECIFICATIONS 1 / 3

Model		IDS-NVR4K16CP — 16-Channel PoE Network Video Recorder, 4K HDMI Output
VIDEO / AUDIO INPUT		
IP Video Input		16-ch
RCA Audio Input		1-ch
Two-way Audio		1-ch, RCA (shared audio in / out)
NETWORK		
Incoming Bandwidth		160 Mbps
Outgoing Bandwidth		128 Mbps
Remote Users		128
Protocols		TCP/IP, P2P, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPv6, IPv4
Browser		IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+
VIDEO / AUDIO OUTPUT		
HDMI / VGA Output		HDMI: 3840×2160/30 Hz, 1920×1080p/60 Hz, 1920×1080p/50 Hz, 1600×1200/60 Hz, 1280×1024/60 Hz, 1280×720/60 Hz, 1024×768/60 Hz VGA: 1920×1080p/60 Hz, 1920×1080p/50 Hz, 1600×1200/60 Hz, 1280×1024/60 Hz, 1280×720/60 Hz, 1024×768/60 Hz
Recording Resolution		12 MP / 8 MP / 6 MP / 5 MP / 4 MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Audio Output		1-ch, RCA
Audio Compression		G.711A, G.711U
ALARM		
General Alarm		Motion, tampering, human body detection, video loss, defocus / scene change, object left behind / removed, auto tracking, alarm input, audio detection
Alert Alarm		IP conflict, network disconnected, disk offline, disk abnormal, illegal access, hard disk space low, hard disk full, recording / snapshot abnormal

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TECHNICAL SPECIFICATIONS 2 / 3

RECORDING & PLAYBACK	
Synchronous Playback	16-ch
Liveview Display	1 / 4 / 6 / 8 / 9 / 16
Corridor Mode Screen	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16
Snapshot	FTP / schedule / event — 4-ch snapshot, up to D1 resolution
EXTERNAL INTERFACE	
Network Interface	1 × RJ45 10M/100M/1000M self-adaptive Ethernet interface
USB	Front panel: 1 × USB 2.0 · Rear panel: 1 × USB 3.0
RS485 / RS232	RS485: 1 · RS232: N/A
Alarm In / Out	8-ch in / 2-ch out
Power Supply	AC 100 ~ 240 V
POE	
PoE Interface	16 × RJ45 10M/100M self-adaptive Ethernet interface
Max Power	Max 30 W for single port, max 240 W in total
Supported Standard	IEEE 802.3at, IEEE 802.3af

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TECHNICAL SPECIFICATIONS 3 / 3

DECODING	
Decoding Format	Ultra 265 / H.265 / H.264
Decoding Capability	Smart off: 2 × 12MP@30, 2 × 4K@30, 4 × 4MP@30, 10 × 1080p@30, 16 × 720p@30 Smart on: 2 × 4K@30, 4 × 4MP@30, 8 × 1080p@30, 16 × 720p@30
Audio Compression	G.711A, G.711U
HARD DISK	
SATA	2 × SATA interfaces
Capacity	Up to 10 TB for each disk (maximum capacity varies with environment temperature)
SMART (VCA)	
VCA Detection by Camera	Face detection, face comparison, vehicle detection, SIP (intrusion detection, cross line detection, enter area, leave area), Ultra Motion Detection (UMD), people counting (people flow counting, crowd density monitoring), traffic monitoring
VCA Search	Face snapshot search, face comparison search, motor / non-motor vehicle search, human body search, general search, people counting report, heat map, AcuSearch
Smart by NVR	Face detection, face comparison · SIP 2-ch · UMD 4-ch
Smart by Camera	All channels (up to 8 images/s in total) — face detection, face comparison, vehicle detection, SIP, UMD, traffic monitoring
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total
GENERAL	
Power Consumption	≤ 12 W (without HDD)
Working Environment	-10 °C ~ +55 °C (+14 °F ~ +131 °F), humidity ≤ 90% RH (non-condensing)
Dimensions (W × D × H)	380 mm × 322 mm × 53 mm (15.0" × 12.7" × 2.1")
Weight (without HDD)	≤ 2.7 kg (6.0 lb)
Certification	CE / FCC / UL / RoHS / WEEE

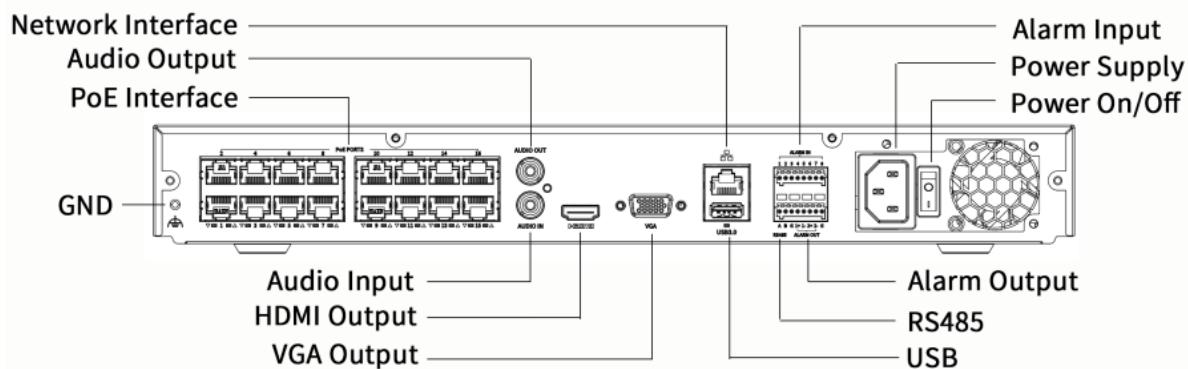
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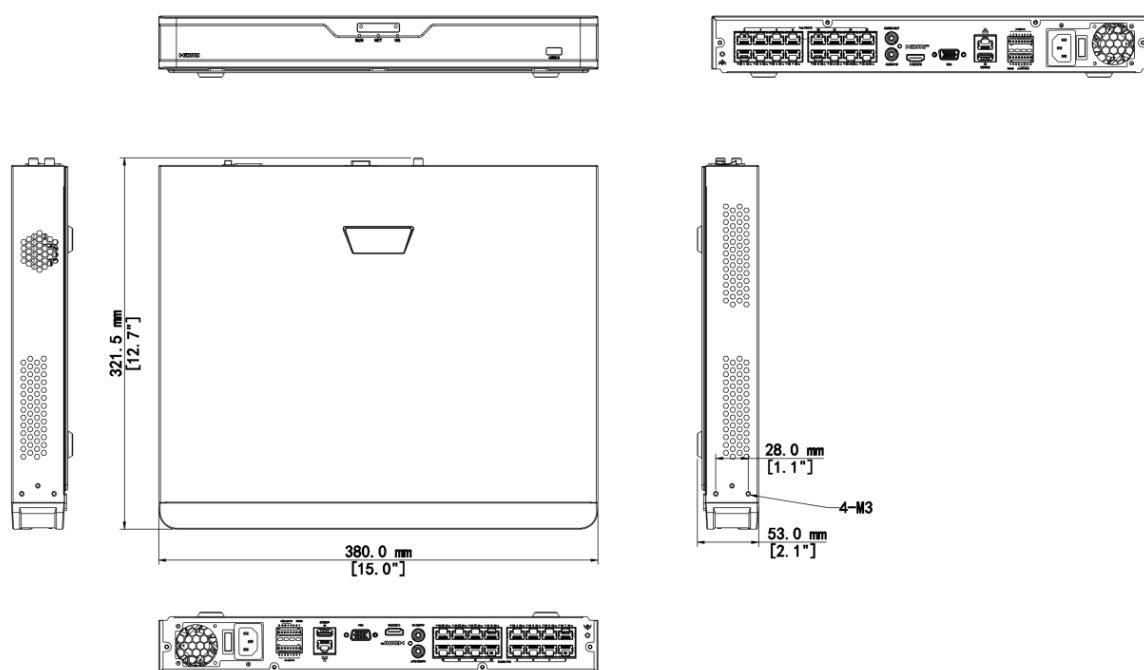
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REAR PANEL



Rear panel: 16 × PoE RJ45 · 1 × GbE LAN RJ45 · audio in / out (RCA) · 4K HDMI · VGA · USB 3.0 (rear) + USB 2.0 (front) · RS485 · 8 alarm in / 2 out · GND · AC 100–240 V power input.

DIMENSIONS



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PRODUCT DATA SHEET



WHY IDS CCTV



Reliable Security

Enterprise-grade 1.5U recorder with full alarm coverage — disk, network and recording faults monitored 24/7.



Smart Detection

Turns connected cameras into one intelligent system — face comparison, people counting, traffic analysis and VCA search across all 16 channels.



Powered Performance

4K HDMI output, Ultra 265 efficiency and 16-port PoE (240 W total) — power and record an entire site from one box.

Need a quote or a demo unit?

Our team responds within one business day.

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