

NETWORK VIDEO RECORDER

NVR16.3-AI



FEATURES

-  Supports Ultra 265/H.265/H.264 video formats
-  8/16/32-channel input
-  Plug & Play with 8/16 independent PoE network interfaces
-  Supports mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T) and RTSP protocols
-  1-ch HDMI, 1-ch VGA; HDMI up to 4K (3840x2160) resolution
-  VGA and HDMI independent output
-  Up to 16 Megapixels resolution recording
-  ANR technology enhances storage reliability when the network is disconnected
-  Supports cloud upgrade

SPECIFICATIONS

Specification	NVR16.3-AI
DECODING	
Decoding Format	Ultra 265, H.265, H.264
Decoding Capability	Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30. Smart On: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30, 12 x 1080P@30, 16 x 720P@30
Decoding Capability Description	Each channel's resolution cannot exceed 8192 x 4096 pixels. For independent VGA/HDMI output, VGA live video is output by default; to output the highest resolution from HDMI, clear the VGA video on the preview page.
Audio Compression	G.711A, G.711U
NETWORK	
Incoming Bandwidth	Smart Off: 320Mbps. Smart On: 160Mbps
Outgoing Bandwidth	160 Mbps
Remote Users	128
Protocols	TCP/IP, P2P, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, IPv6, IPv4
Browser (Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+
VIDEO/AUDIO INPUT	
IP Video Input	16-ch
RCA Audio Input	1-ch
PERIPHERAL INPUT	
IP Speaker	16-ch
POS	All channels
VIDEO/AUDIO OUTPUT	
HDMI Output	4K (3840x2160)/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
VGA Output	1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
RCA Audio Output	1-ch
Liveview Display	1/4/6/8/9/16
Corridor Mode Screen	3/4/5/7/9/10/12/16

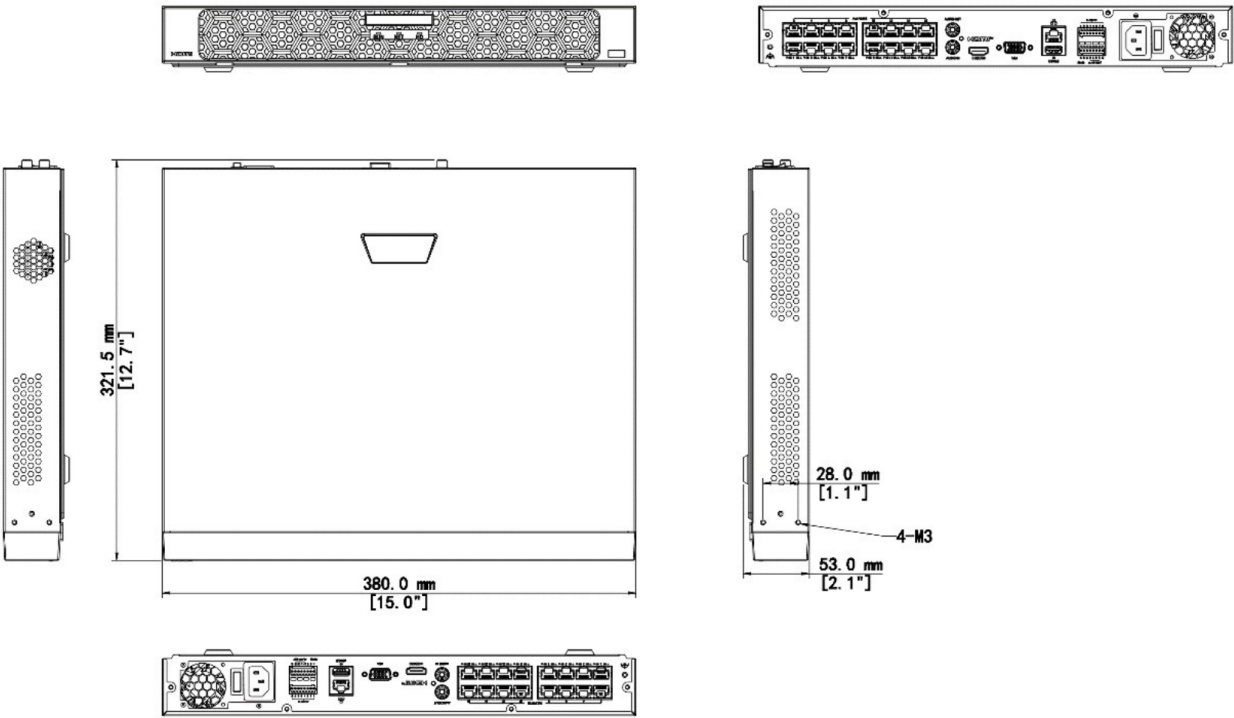
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TWO-WAY AUDIO	
Two-way Audio	1-ch, RCA (using the audio input and output)
SNAPSHOT	
FTP/Schedule/Event Snapshot	4-ch snapshot (max. 8MP / 3840x2160 video resolution, with 1080P snapshot resolution)
RECORDING	
Recording Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF
Synchronous Playback (Local)	16-ch
SMART	
Smart by IPC	All channels (up to 8 images/s total): Face Detection, Face Comparison, Vehicle Detection (LPR), Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring
Smart by NVR	Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Ultra Motion Detection (UMD)
VCA Search	A.I. Search, A.I. Track, Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Heat Map
A.I. Search	All channels with Illumivue SIP/UMD camera; up to 8-ch with normal camera (Illumivue and third-party brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)
A.I. Track	All channels with Illumivue SIP/UMD camera; up to 8-ch with normal camera (Illumivue and third-party brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)
Face Comparison by NVR	Up to 8-ch with Illumivue Face Detection camera; up to 2-ch with normal camera (Illumivue and third-party brand, 2-ch 2MP, 1-ch 4MP)
Search by Image	Supported
Vehicle Picture Library	Up to 5 libraries, up to 25,000 vehicle pictures total
SIP by NVR (normal cameras)	Up to 4-ch with normal camera (Illumivue and third-party brand, 4-ch 2MP, 2-ch 4MP, 1-ch 4K)
UMD by NVR (normal cameras)	Up to 8-ch with normal camera (Illumivue and third-party brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)
Capacity of Snapshot Records	2 million records each for face and vehicle snapshot, 3 million for SIP, 2 million for video metadata

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ALARM	
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, Array Damaged, Array Degraded
GUI LANGUAGE	
GUI Language	38 languages, including Simplified & Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Korean, Japanese, Latvian, Lithuanian, and Persian
HARD DISK	
SATA	2 SATA interfaces
Capacity	Up to 24TB per HDD (max. capacity varies with ambient temperature and disk size; ambient temperature should not exceed 40°C)
Disk Group	Supported
Redundant Storage	Supported
Disk Array Type	RAID 1
EXTERNAL INTERFACE	
Network Interface	1x RJ45, 10M/100M/1000M self-adaptive
USB	Front panel: 1x USB2.0. Rear panel: 1x USB3.0
RS485	1
RS232	N/A
Alarm In	8-ch
Alarm Out	2-ch
Power Supply	AC 100~240V
Power Switch	Supported
POE	
PoE Interface	16x RJ45, 10M/100M self-adaptive
Max Power	Max. 30W per port, 240W total
Supported Standard	IEEE 802.3at, IEEE 802.3af

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WORKING ENVIRONMENT	
Working Temperature	-10°C to 50°C (14°F to 122°F)
Working Humidity	≤ 90% RH (non-condensing)
Power Consumption (without HDD)	≤ 12W
DIMENSIONS	
Weight (without HDD)	≤ 2.7kg (6.0lb)
Height	1U
Dimensions (W x D x H)	380 x 322 x 53mm (15.0" x 12.7" x 2.1")
CERTIFICATION	
Certification	CE; FCC; UL; RoHS; WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part 15 Subpart B

D I M E N S I O N S

NVR16.3-AI dimensions: 380mm x 322mm x 53mm (15.0" x 12.7" x 2.1").





The United States government passed the John S. McCain National Defense Authorization Act for the 2019 fiscal year on August 13, 2018 (NDAA 2019). This act specifies the budget, expenditures and policies of the United States Department of Defense, and prohibits the purchase and use of specific electronic security products manufactured and supplied by specific companies based in China.

We are aware of the NDAA and abide by the stipulations set forth in this regulation. Illumivue is always committed to providing products of the highest standards while ensuring compliance with project requirements.

Our goal is to continue providing only the best equipment we can. Safety and security are our top priority, and we sincerely appreciate all partners' support and patience.

WARRANTY

All Illumivue products come with a 3-year limited liability warranty covering parts and labor repairs on components found defective in material or workmanship under normal use. This warranty does not apply to products that have been abused, modified, or disassembled, and is honored only through authorized resellers — not through non-authorized online sellers.

Products that fail under conditions outside this coverage will be repaired at the current price of parts and labor. Repairs are warranted for 90 days from the date of reshipment to the buyer. Units delivered by mail travel at the customer's risk unless insured. No unit will be accepted without a return authorization number, and proof of sale may be required to claim warranty.