

# Network Video Recorder

## NR-H4-16/32/64-IXG



\*Images shown are for illustration purposes only and may not be an exact representation of the product.

## FEATURES

- Support Advance H.265, H.265, H.264 video formats
- Support 16/32/64-channel input
- Support 3-ch HDMI, 1-ch VGA, HDMI1 and VGA simultaneous output, HDMI1 /VGA and HDMI2 and HDMI3 independent output.
- Support up to 4K resolution recording
- Support ANR technology to enhance the storage reliability when the network is disconnected
- Support SeekFree: up to 16-ch with 3rd party and normal IPC, up to all channels with SIP/SMD/etc. Smart IPC
- Support external USB keyboards
- Support 2 miniSAS Interfaces
- Support SIP, SMD, Video Metadata, , Plate Comparison, People Counting, Face Detection and by NVR
- Support cloud upgrade

## TECHNICAL SPECIFICATIONS

### DECODING

Decoding Format

Advance H.265, H.265, H.264

Decoding Capability

Smart Off:

H265: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 16 x 1080P@30, 16 x 720P@30, 16 x D1@60

H264: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 16 x 1080P@30, 16 x 720P@30, 16 x D1@60

Smart On: When Smart by NVR on, the decoding capacity is same as Smart off.

Smart Off:

H265: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 25 x 1080P@30, 32 x 720P@30, 32 x D1@60

H264: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 25 x 1080P@30, 32 x 720P@30, 32 x D1@60

Smart On: When Smart by NVR on, the decoding capacity is same as Smart off.

Smart Off:

H265: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 25 x 1080P@30, 32 x 720P@30, 64 x D1@30

H264: 6 x 4K@30, 8 x 6MP@30, 10 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 25 x 1080P@30, 32 x 720P@30, 64 x D1@30

Smart On: When Smart by NVR on, the decoding capacity is same as Smart off.

Audio Compression

G.711A, G.711U

Decoding Capability Description

The resolution of each channel cannot exceed 8192 pixels in length or width

### VIDEO / AUDIO INPUT

RCA Audio Input

1-ch

IP Video Input

16-ch

32-ch

64-ch

BNC Audio Input

N/A

3.5mm Audio Input

N/A

## NETWORK

Incoming Bandwidth	384 Mbps
Outgoing Bandwidth	384 Mbps
Max Users Can Be Added	32
Remote Users	128
Protocols	TCP/IP, P2P, SMTP, RTSP, UPnP, NTP, DHCP, PPPoE, HTTP, DNS, DDNS, IPv6, IPv4, HTTPS, SNMP
Browser(Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+
Browser (Plugin-Free)	Chrome 57+, Edge 16+, Firefox 58+, Safari 11+

## VIDEO / AUDIO OUTPUT

Video Output	Support 3-ch HDMI, 1-ch VGA, HDMI1 and VGA simultaneous output, HDMI1 /VGA and HDMI2 and HDMI3 independent output.
HDMI Output	4K (3840 × 2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1280 × 720/60 Hz
VGA Output	1920 × 1080/60 Hz, 1280 × 720/60 Hz
HDMI Standard	HDMI1.4
BNC Audio Output	N/A
RCA Audio Output	3-ch
3.5mm Audio Output	N/A

Liveview Display	HDMI1 and VGA/HDMI2/HDMI3: 1/4/6/8/9/16	HDMI1 and VGA/HDMI2/HDMI3: 1/4/6/8/9/16/25/32	HDMI1 and VGA: 1/4/6/8/9/16/25/36/64 HDMI2: 1/4/6/8/9/16/25/36 HDMI3: 1/4/6/8/9/16/25/36
Default Num of Live Screen	16	32	HDMI1 and VGA: 64; HDMI2: 36; HDMI3: 36
Corridor Mode Screen	3/4/5/7/9/10/12/16	3/4/5/7/9/10/12/16/32	3/4/5/7/9/10/12/16/32
Playback Screen	1/4/9/16		
Corridor Mode Screen of Playback	1/3		
<b>PERIPHERAL INPUT</b>			
POS	All channels		
Ip Speaker	16-ch		
<b>TWO-WAY AUDIO</b>			
Two-way Audio	1-ch,RCA(Using the audio input and output)		
<b>RECORDING</b>			
Recording Resolution	32 MP/16 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF		
Synchronous Playback in Local	16-ch		
Num of Concurrent Playback	32-ch		

## SMART

Smart by IPC	All channels (up to 16 images/s in total) Face Detection, Face Comparison, Vehicle Detection(LPR), Temperature Detection, SIP, SMD, Video Metadata, Traffic Monitoring, People Counting		
Smart by NVR	Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Video Metadata, Plate Comparison, Illegally Parked Motor Vehicle, Smart Motion Detection (SMD), People Counting (People Flow Counting, Crowd Density Monitoring), Behavior Analysis, Elevator Entrance Detection, Evacuation Route Obstruction		
Smart by NVR Analyzer Mode	Mixed Mode (SIP+Behavior Analysis+People Counting), Mixed Mode (Face Recognition+Mixed-Traffic Detection+AcuSearch/AcuTrack), Modes cannot active simultaneously, only one mode can active at a time.		
VCA Search	AcuSearch, AcuTrack, Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Behavior Search, SmartSearch+, Heat Map		
AcuSearch	All channels with SIP/AMD Camera, Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)		
AcuTrack	All channels with SIP/SMD Camera, Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)		
SeekFree	All channels with SIP/SMD Camera, Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)		
SeekFree Language	English		
by NVR	Up to 16-ch with Face Detection Camera   Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)	Up to 32-ch with Face Detection Camera   Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)	Up to 32-ch with Face Detection Camera   Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)
Search by Image	Support		

## SMART

SIP by NVR with normal cameras	Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)
SMD by NVR with normal cameras	N/A
with normal cameras	Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)
by NVR	No Helmet Detection, No Chef Hat Detection, No Work Clothes Detection, Smoking Detection, Smoke and Fire Detection, Calling Detection, No Mask Detection, Rat Detection, Long Stay Detection, Fall Detection, Fight Detection, Absence Detection, Quick Moving, People Dispersion, People Gathering, Using Mobile Phone Detection, No Reflective Clothing Detection, Sleep on Duty Detection, Climbing Detection, Knife/Stick in Hand Detection
Video Metadata by NVR with normal cameras	Up to 16-ch with normal camera (Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)
Video Metadata by NVR	Motor Vehicle: Vehicle Type, Vehicle Color, Vehicle Brand, Direction, Plate Type, Plate Color, Human Body: Gender, Age, Mask, Hairstyle, Bag Style, Direction, Upper Garment Length, Lower Garment Length, Upper Garment Color, Lower Garment Color, Non-Motor Vehicle: Non-Motor Vehicle Type, Direction, Gender, Age, Upper Garment Length, Upper Garment Color
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total
Capacity of Snapshot Records	2 millions records for SIP, 2 millions records for vehicle snapshot, 3 millions records for face snapshot

## ALARM

General Alarm

Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Audio Detection, Alarm Input

Alert Alarm

IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, High CPU Temperature, High Motherboard Temperature, Array Damaged, Array Degraded

## GUI Language

GUI Language

38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian

## HARD DISK

SATA

4 SATA Interfaces

Capacity

Up to 24 TB for each HDD (The maximum HDD capacity varies with environment temperature and hard disk size, The environment temperature for use should not exceed 40°C)

Disk Group

Support

Redundant Storage

Support

Disk Array Type

RAID 0, 1, 5 | RAID 0, 1, 5 | N/A

## EXTERNAL INTERFACE

Network Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface
Network Working Mode	Multi-access, load balance, network fault-tolerance
USB	Front panel: 2 × USB2.0, Rear panel: 2 × USB3.0
RS485	1
RS232	1
Alarm In	16-ch
Alarm Out	10-ch
eSATA	1
miniSAS	N/A
miniSAS HD	N/A
Power Output	12 V
Extension Board	1
Buzzer	Support
Power Supply	AC 220 V
Power Switch	Support
Redundant Power Supply	N/A
<b>PoE</b>	
PoE Interface	N/A
Max Power	N/A
Supported Standard	N/A

## WORKING ENVIRONMENT

Working Temperature      -10 °C ~ 55 °C (14 °F ~ 131 °F)

Working Humidity          ≤ 90% RH (non condensing)

Power Consumption  
(without HDD)              ≤50W

Heat Dissipation          Fan, Radiator

## Feature Supported

Cruise Lines Num of  
Each Camera

4

Preset Num

32

N+1 Hot Spare

N/A

Fisheye Dewarping by IPC

Support

Dual-lens Cameras

Support

Box-Dome Linkage

Support

ANR

Support

Downlink ONVIF

Support (Profile S)

Uplink ONVIF

N/A

Video Image Database  
(Uplink)

Support

UCS (Web socket)

Support

NAS

Support

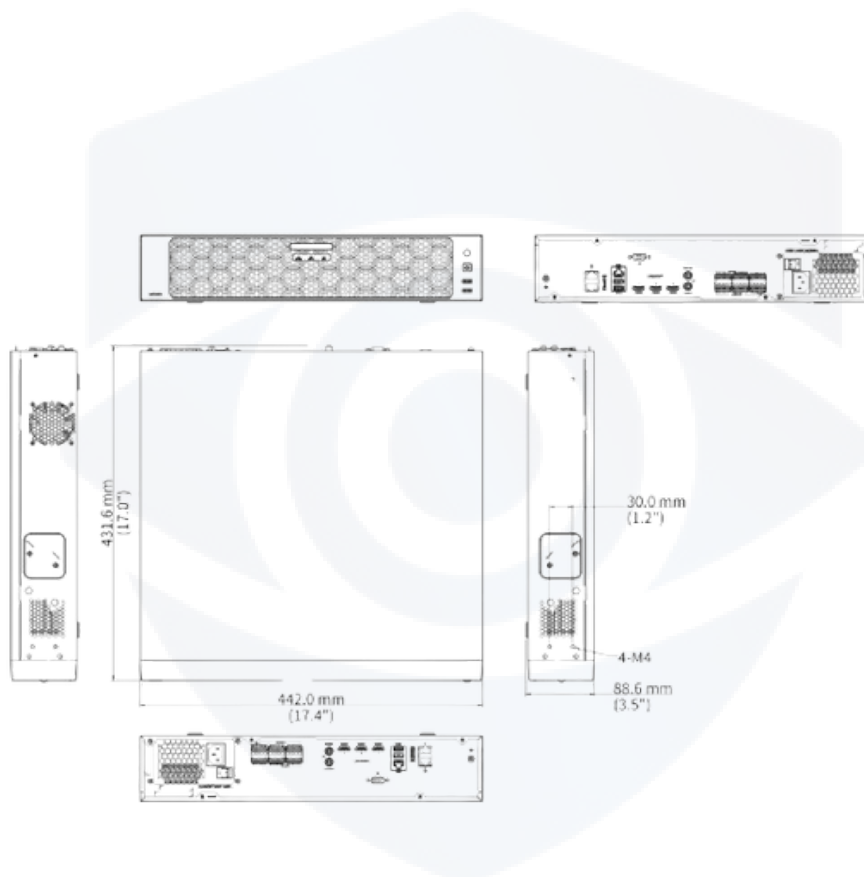
## Feature Supported

Smartcode Basic Mode Support

Smartcode Advanced Mode Support

Output Mode N/A

## Dimensions



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