

SPRO[®]**IP**

DHIPNVR64-A10

64 CHANNEL 4K IP NVR



Key Features:

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 32 × 1080p@30 fps.
- Max. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- Supports AcuPick with up to 64 channels.
- AI by Recorder supports 8-channel face detection and recognition, up to 40 face databases and 300,000 face images; 8-channel metadata; 32-channel perimeter protection; 32-channel SMD Plus.
- AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- Supports N+M cluster, Raid 0/1/5/6/10, iSCSI, Drawer-like chassis design allows for HDD hot swapping.
- Supports EPTZ, One-click Arming & Disarming.
- Security baseline 2.3.

SPECIFICATIONS

Model Number	DHIPNVR64-A10
Main Processor	Industrial-grade processor
Operating System	Embedded LINUX
Operating Interface	Web; Local GUI

(continued)

AI

AI by Recorder

Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus

AI by Camera

Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; object monitoring

AcuPick by Camera + Recorder

Max. 64-channel, 1 combined event per channel/s

Perimeter Protection

Perimeter Performance AI (Recorder)

Simultaneous mode: 32 channels, 10 IVS rules for each channel
Heterogeneous mode: 24 channels, 10 IVS rules for each channel

Perimeter Performance AI (Camera)

64 channels

Face Detection

Face Attributes

Gender; age group; glasses; expressions; face mask;

Face Detection Performance

beard

By Recorder

Face Detection Performance

Simultaneous mode: 8 channels (up to 12 face images/s each channel) Heterogeneous mode: 5 channels (up to 12 face images/s each channel)

By Camera

Face Recognition

Face Database Capacity

Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.

Face Recognition Performance of AI by Recorder

Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s; 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s
Heterogeneous mode: 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s; 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s

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Face Recognition 64 Channels

**Performance of AI by
Camera**

SMD Plus

SMD by Recorder 32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change

SMD Plus by Camera 64 Channels

Video Metadata

**Metadata Performance of
AI by Recorder** 8 Channels

**Metadata Performance of
AI by camera** 64 Channels

People Attributes 9 human body attributes

Human Attributes Top colour, top tupe, hat, bag age, gender and umbrella

Motor Vehicle Attributes License plate, plate colour, vehicle model, vehicle logo, plate colour, ornament, calling.

Non-motor Vehicle Attributes Vehicle model, Vehicle colour, number of persons, helmet.

Vehicle License Plate Comparison

ANPR by Camera 64 Channels

License Plate Database Capacity Blocklist and allowlist: 20,000

Audio and Video

Access Channel 64 channels

Network Bandwidth AI disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing
AI enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing

Resolution 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP;
1080p; 720p; D1

(continued)

Decoding Capability

AI disabled: 2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps ; 64-channel D1@30 fps

AI enabled: 1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps ; 64-channel D1@30 fps

Video Output

2 VGA, 4 HDMI; VGA: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI1&2: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI4: 1920 × 1080, 1280 × 1024, 1280 × 720

Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMI1 and HDMI2 is 4K; max. resolution of HDMI3 is 8K; max. resolution of HDMI4 is 1080p

Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1, simultaneous video source output for VGA2 and HDMI2. Max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMI1, HDMI2 and HDMI3 is 4K; max. resolution of HDMI4 is 1080p

Multi-screen Display

Main screen: 1/4/8/9/16/25/36/64

Sub screen: 1/4/8/9/16/25/36

Third-party Camera Access

ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung

Compression Standard

Video Compression

Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG

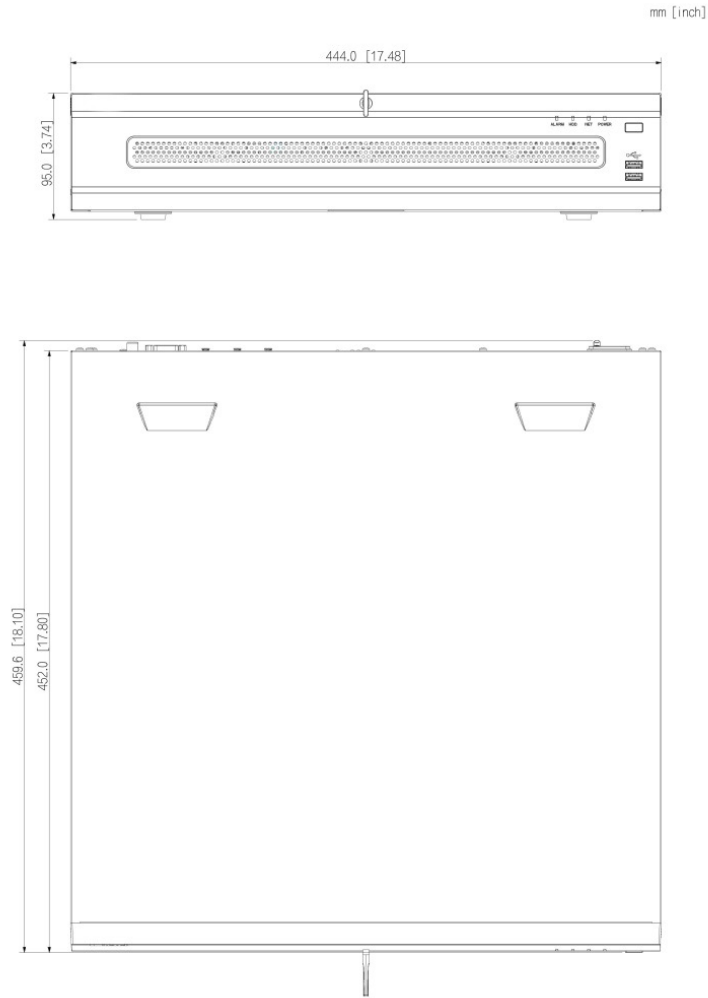
Audio Compression

G.711a; G.711u; PCM; G726

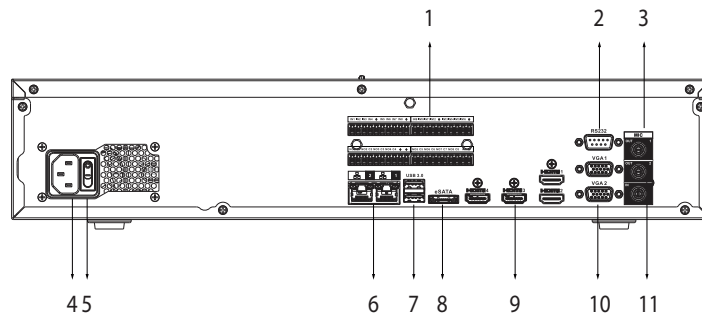
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI
Mobile Phone Access	iOS; Android
Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK
Browser	Chrome IE 9 or later Firefox
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
Recording Playback	
Multi-channel Playback	Up to 16 channels
Record Mode	Manual; alarm; motion detection; scheduled
Backup Method	Portable hard drive, eSATA disk, burner, USB device and network
Playback Mode	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off
Storage	
Disk Group	Yes
RAID	RAID 0/1/5/6/10
Hot Swapping	Yes
Alarm	
General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; ANPR; people counting; stereo analysis; crowd distribution; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email

Port	
Audio Input	1-channel RCA
Audio Output	2-channel RCA
Alarm Input	16 Channels
Alarm Output	8 Channels
HDD Interface	8 SATA ports, up to 16TB. The maximum HDD capacity varies with environment temperature
eSATA	1
RS-232	1
RS-485	1x A/B
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	4
VGA	2
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)
General	
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	<18 W (without HDD)
Net Weight	6.40 kg (14.11 lb) (without HDD)
Gross Weight	10.35 kg (22.82 lb) (without HDD)
Product Dimensions	444.0 mm × 456.6 mm × 95.0 mm (17.48" × 17.98" × 3.74") (W × D × H)
Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014+A11:2017

Dimensions (mm[inch])



Panels



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|----|--------------------------|----|---------------|
| 1 | Alarm In/Out | 2 | RS-232 Port |
| 3 | AUDIO OUT, RCA Connector | 4 | Power Input |
| 5 | Power Switch | 6 | Network Ports |
| 7 | USB Ports | 8 | eSATA Port |
| 9 | HDMI Ports | 10 | VGA Ports |
| 11 | AUDIO IN, RCA Connector | | |



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