SPRO iP

DHIPNVR16-A7

16 CHANNEL 4K IP NVR

AI PRO ARTIFICIAL INTELLIGENCE | **PERIMETER PROTECTION** | **SMD+** Smart Motion Detection Plus | **AOC** AUDIO OVER CAT5e | **GB ANPR**

16 CHANNELS | **HDMI** | **VGA** | **PTZ CONTROL** | **H.265** | **iPHONE & ANDROID PHONE VIEWING** | **APPLE MAC VIEWING** | **USB BACKUP** | **4K 16MP**

Key Features:

- H.265 codec recording
- Up to 16 megapixel live viewing & recording
- 16 x POE ports built-in
- Up to 256Mbps incoming bandwidth
- AI PRO technology (support AI by NVR)
- Face detection & recognition
- Human & vehicle classification
- HDMI (4K) & VGA output

SPECIFICATIONS

Model Number	DHIPNVR16-A7
Main Processor	Industrial-grade processor
Operating System	Embedded LINUX
Operating Interface	Web; Local GUI

AI	
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; stereo analysis; people counting; ANPR; heat map

Perimeter Protection	
Perimeter Performance AI (Recorder)	2 channels, 10 IVS rules for each channel
Perimeter Performance AI (Camera)	8 channels

Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance By Recorder	1 channel (up to 12 face images/s each channel)
Face Detection Performance By Camera	8 channels

Face Recognition	
Face Database Capacity	Up to 10 face databases with 20,000 images, with a total capacity of 2.5 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	8-channel FD (by camera) + FR (by recorder),image stream: 2 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera	8 channels

SMD +	
SMD + by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD + by Camera	8 channels

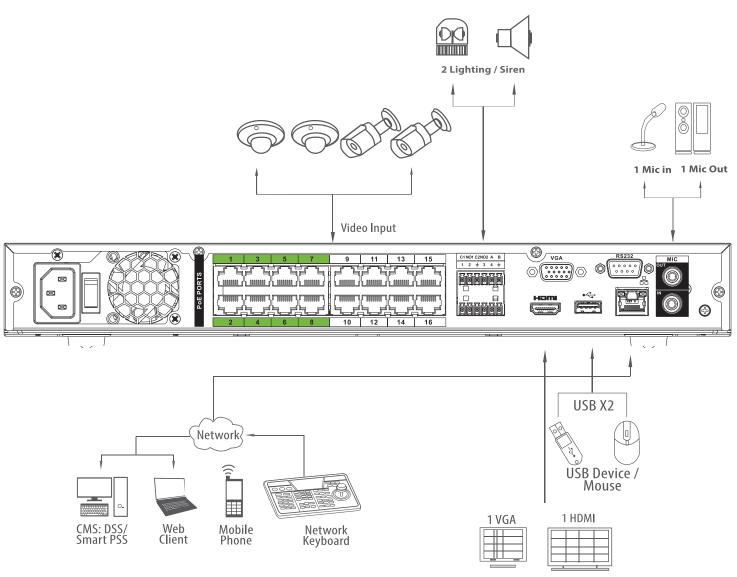| ANPR	
ANPR by Camera	4 channels

Audio and Video	
Access Channel	16 channels
Network Bandwidth	AI disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing
	AI enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF
Decoding Capability	AI disabled: 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
	AI enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel 1080p@30 fps
Video Output	1 HDMI, 1 VGA
	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
	*Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Multi-screen Display	1st Screen: 1/4/8/9/16 - 2nd Screen: 1/4/8/9/16
Third-party Camera Access	ONVIF

Compression Standard	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Audio Compression	G.711a; G.711u; PCM; G726

Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE9 and later; Firefox

Recording Playback	
Multi-channel Playback	Up to 16 channels
Record Mode	General, motion detection; intelligent; alarm
Backup Method	USB device and network
Playback Mode	Instant Playback, general playback, event playback, tag playback, smart playback

Storage	
Disk Group	Yes

Alarm	
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email

Port	
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	4 channels
Alarm Output	2 channels
HDD Interface	2 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.
RS-232	1
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at

General	
Power Supply	100–240 VAC, 47-63 Hz
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of asingle port is 25.5W
Net Weight	2.60 kg (5.73 lb)
Gross Weight	3.80 kg (8.38 lb)
Product Dimensions	375.0 mm × 329.3 mm x 53.0 mm (14.76" × 12.96" × 2.09")
Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Operating Humidity	10%–93% (RH)
Installation	Desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

(continued)

2 Lighting / Siren

1 Mic in   1 Mic Out

Video Input

Network

CMS: DSS/
Smart PSS

Web
Client

Mobile
Phone

Network
Keyboard

USB X2

USB Device /
Mouse

1 VGA   1 HDMI

Video Output