SPRO IP

DHIPNVR16-A8

16 CHANNEL 4K IP NVR

GB ANPR · **PERIMETER PROTECTION** · **SMD+** Smart Motion Detection Plus · **AOC** AUDIO OVER CAT5e · **FLAME DETECTION** · **ACUPICK** TECHNOLOGY

16 CHANNELS · **HDMI** · **VGA** · **PTZ CONTROL** · **H.265** · **iPHONE & ANDROID PHONE VIEWING** · **APPLE MAC VIEWING** · **USB BACKUP** · **4K 32MP**

Key Features:

· 32 MP (4K) video recording
· AcuPick (Compatible Camera Required)
· Flame Detection (Compatible Camera Required)
· ANPR (Compatible Camera Required)
· Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
· Max. 384 Mbps incoming/recording/outgoing bandwidth.
· AI: Recognition of human & vehicle
· Supports audio over CAT5e cable
· Push notification on smart phone
· P2P (no port forwarding required)

SPECIFICATIONS

Model Number	DHIPNVR16-A8
Main Processor	Industrial-grade processor
Operating System	Embedded LINUX
Operating Interface	Web; Local GUI

(continued)

AI	
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus
AI by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map

Perimeter Protection	
Perimeter Performance AI (Recorder)	4 channels, 10 IVS rules for each channel
Perimeter Performance AI (Camera)	16 channels

Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance By Recorder	2 channels (up to 12 face image/s each channel)
Face Detection Performance By Camera	16 channels

Face Recognition	
Face Database Capacity	Up to 20 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	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera	16 channels

SMD +	
SMD + by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change
SMD + by Camera	16 channels

Video Metadata	
Metadata Performance of AI by Camera	8 channels
Human Attributes	Top colour, top type, bottom colour, bottom type, hat, bag, age, gender and umbrella
Motor Vehicle Attributes	License plate, plate colour, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.
Non-motor vehicle Attributes	Vehicle model, vehicle colour, number of persons, helmet.
Vehicle License Plate Comparison	
ANPR by Camera	8 channels
License Plate Database Capacity	1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist
Audio and Video	
Access Channel	16
Network Bandwidth	AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
Decoding Capability	AI disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 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 AI enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps

Video Output	1-channel VGA, 1-channel HDMI video output. Heterogeneous video source output for HDMI and VGA
Multi-screen Display	Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16
Third-party Cameras 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; RTSP; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports SPRO IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration
Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK
Mobile Phone Access	DMSS
Browser	Chrome; IE or later; Firefox

Recording Playback

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

Storage

Disk Group	Yes

Alarm

General Alarm	Motion detection; privacy masking; local alarm;
Anomaly Alarm	Camera Offline: storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception
Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map

(continued)

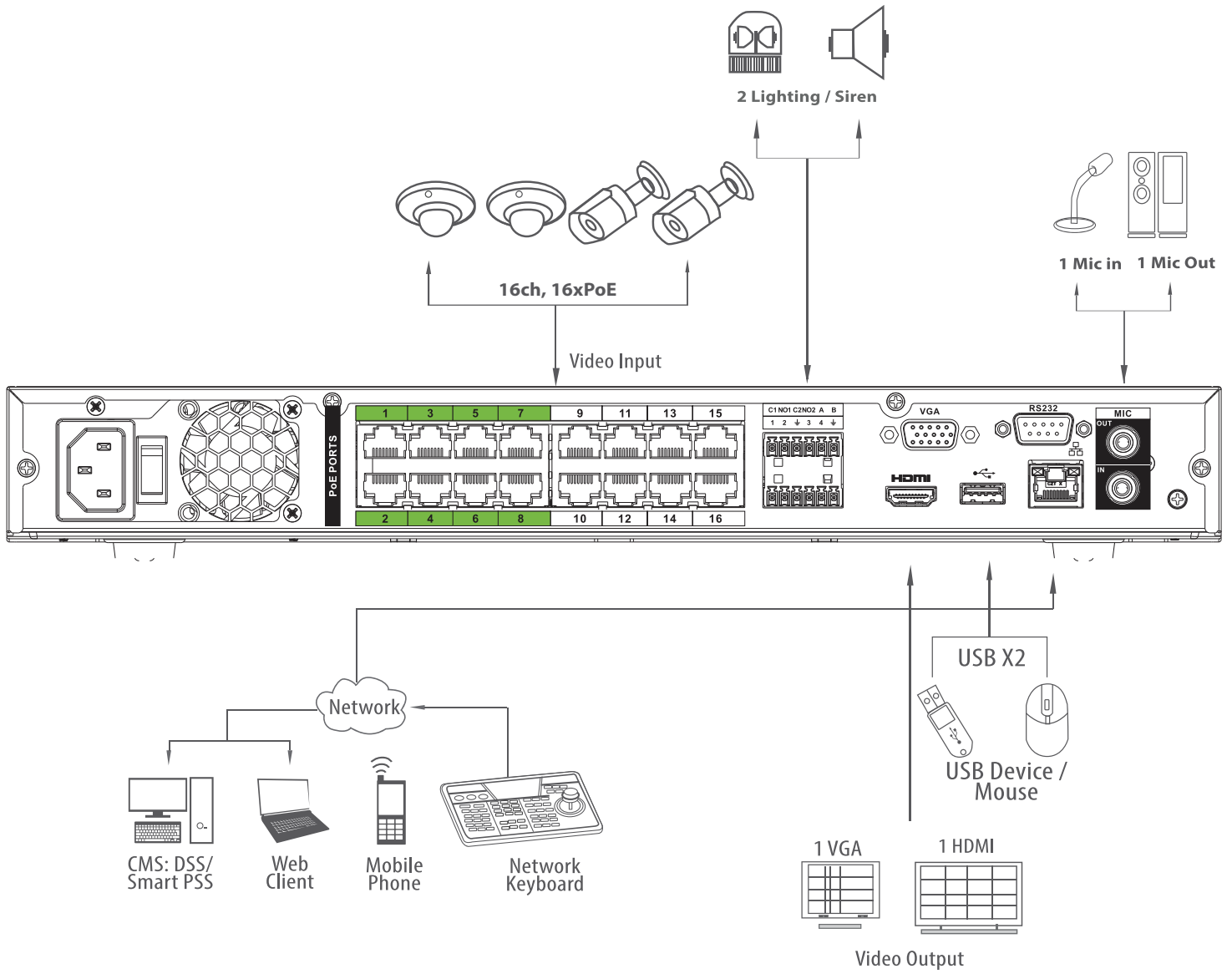|	
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email

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 16TB. The maximum HDD capacity varies with environment temperature.
RS-232	1
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 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, 1-8 ports support ePoE

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 130 W, the maximum output power of a single port is 25.5W
Net Weight	2.66 kg (5.86 lb)
Gross Weight	3.82 kg (8.42 lb)
Product Dimensions	375.0 mm × 329.3 mm x 53.0mm (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	Rack or 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

16ch, 16xPoE

Video Input

PoE PORTS

1 3 5 7   9 11 13 15

2 4 6 8   10 12 14 16

C1 NO1 C2NO2 A B
1 2 3 4

VGA

RS232

MIC
OUT
IN

HDMI

Network

USB X2

USB Device / Mouse

CMS: DSS/ Smart PSS

Web Client

Mobile Phone

Network Keyboard

1 VGA   1 HDMI

Video Output

LUXRITE
SECURITY YOU CAN TRUST