



DNVR4K3202-16P-Ai



Key Features



- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled)
- Max. decoding capability: 16 x 1080p@30fps. Supports adaptive decoding
- AI by NVR: 1-Channel Face Detection and Recognition, 2-Channel Perimeter Protection, up to 10 face databases and 20,000 face images, 4-Channel SMD Plus
- AI by Camera: Face Detection and Recognition, Perimeter Protection, SMD Plus, People Counting, Stereo Analysis, Heat Map
- Connected to the third-party network cameras
- Security Baseline 2.3



Specifications

System		DNVR4K3202-16P-Ai
Main Processor	Industrial-grade embedded processor	
Operating System	Embedded Linux	
Operating Interface	Web, Local GUI	
AI		
AI by Recorder	Face Detection, Face Recognition, Perimeter Protection, & SMD Plus	
AI by Camera	Face Detection, Face Recognition, Perimeter Protection, SMD Plus, ANPR, People Counting, Stereo Analysis, Heat Map	
Perimeter Protection		
Perimeter Performance AI by Recorder (Number of Channels)	2-Channels, 10 IVS for each channel	
Perimeter Performance of AI by Camera (Number of Channels)	All Channels (8 targets)	
Face Detection		
Face Attributes	Gender, age group, glasses, expressions, face mask, beard	
Face Detection Performance of AI by Recorder (Number of Channels)	1-Channel (up to 12 face images each channel)	
Face Detection Performance of AI by Camera (Number of Channels)	All Channels (8 targets)	
Face Recognition		
Face Database Capacity	Up to 10 face databases with 20,000 images with a total capacity of 2.5G. 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 (Number of Channels)	8-Channel FD (by Camera) + FR (by Recorder), image stream: 12 face images 1-Channel FD (by Recorder) + FR (by Recorder), video stream: 12 face images	
Face Recognition Performance of AI by Camera (Number of Channels)	All Channels (8 targets)	

**SMD Plus**

SMD Plus by Recorder	4-Channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	All Channels (16 targets)

Audio and Video

Access Channel	32-Channels
Network Bandwidth	AI Disabled: 256 Mbps incoming, 256 Mbps recording & 256 Mbps outgoing AI Enabled: 180 Mbps incoming, 180 Mbps recording & 180 Mbps outgoing
Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 960p, 720p, D1, CIF
Decoding Capability	AI Disabled: 2-Channel 16MP@30fps, 2-Channel 12MP@30fps, 4-Channel 8MP@30fps, 4-Channel 6MP@30fps, 6-Channel 5MP@30fps, 8-Channel 4MP@30fps, 16-Channel 1080p@30fps, 32-Channel 720p@30fps. AI Enabled: 1-Channel 16Mp@30fps, 2-Channel 12MP@30fps, 3-Channel 8MP@30fps, 3-Channel 6MP@30fps, 4-Channel 5MP@30fps, 6-Channel 4MP@30fps, 12-Channel 1080p@30fps, 16-Channel 720p@30fps, 32-Channel D1p@30fps.
Video Output	1 HDMI, 1 VGA HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720 VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 <i>*Simultaneous/Heterogeneous video sources output for VGA & HDMI is configurable</i>
Multi-Screen Display	Main Screen: 1, 4, 8, 9, 16, 25, 36 Sub Screen: 1, 4, 8, 9, 16
Third-Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon

Compression

Video Compression	Smart H.265+, Smart H.264+, H.265, H.264, MJPEG
Audio Compression	PCM, G.711A, G.711Mu, G.726

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, P2P, Auto Register
Mobile Phone Access	iOS & Android
Interoperability	ONVIF 22.06 (Profile T, Profile S, Profile G), CGI, SDK
Browser	Chrome, IE9 or later, Firefox

**Record 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
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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

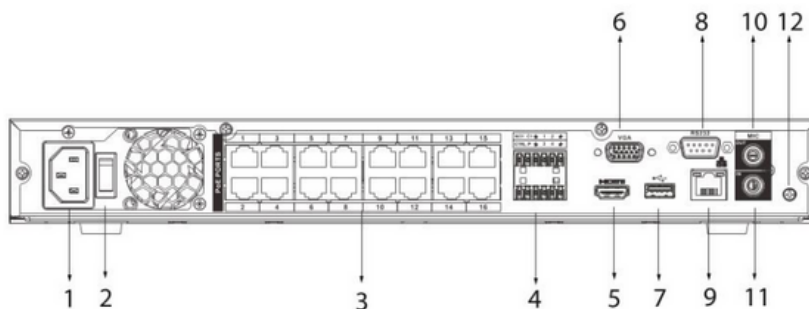
Audio Input	1-Channel RCA
Audio Output	1-Channel RCA
Alarm Input	4-Channels
Alarm Output	2-Channels
Disk Interface	2 SATA ports, up to 16TB. The max. HDD capacity varies with environment temperature.
RS-232	1
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10, 100, 1000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



General

Power Supply	100V ~ 240 VAC, 47Hz ~ 63Hz
Power Consumption	Total output of NVR is $\leq 10W$ (Without HDD) Total output power of PoE is 130W, the max. output power of a single port is 25.5W
Net Weight	2.60 kg (5.73lb)
Gross Weight	3.80 kg (8.38lb)
Product Dimensions	375.0mm x 329.3mm x 53.0mm (14.76" x 12.96" x 2.09") (W x L x H)
Package Dimensions	451.0mm x 425.0mm x 147.0mm (17.75" x 16.73" x 5.79") (W x L x H)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)
Storage Temperature	-20°C ~ +60°C (-4° ~ 140°F)
Operating Humidity	10% ~ 93% (RH), Non-Condensing
Installation	Rack or desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+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

Panels



1 - Power Switch

3 - PoE Ports

5 - HDMI Port

7 - USB Port

9 - Network Port

11 - Audio In, RCA Connector

2- Power Switch

4- Alarm In/Out

6- VGA Port

8 - RS-232 Port

10 - Audio Out, RCA Connector

12 - Ground