



DNVR4KP3204-Ai



Key Features



- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG decoding format
- Max. decoding capability: 32 x 1080p@30fps or 32 x 2MP@30fps
- Max. 384Mbps incoming, recording & outgoing bandwidth
- Support AcuPick with max. 16-channel
- Support N+M cluster
- Ai by Recorder: 2-channel face detection & recognition, 4-channel perimeter protection & 8-channel SMD Plus
- Ai by Camera: Face detection & recognition, perimeter protection, SMD Plus, Metadata, ANPR, Stereo Analysis, Heat Map & People Counting
- Security Baseline 2.3



Specifications

System		DNVR4KP3204-Ai	
Main Processor	Industrial-Grade 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, video metadata (human, motor vehicle & non-motor vehicles), perimeter protection, SMD Plus, stereo analysis, crowd distribution, people counting, ANPR, vehicle density & heat map		
AcuPick Ai by Camera + Recorder	Max. 16-Channel, 1 combined event per channel/s		
Perimeter Protection			
Perimeter Performance Ai by Recorder (Number of Channels)	4-Channels, 10 IVS rules for each channel		
Perimeter Performance of Ai by Camera (Number of Channels)	16-Channels		
Face Detection			
Face Attributes	Gender, age group, glasses, expressions, face mask & beard		
Face Detection Performance of Ai by Recorder (Number of Channels)	2-Channels (up to 12 face images each channel)		
Face Detection Performance of Ai by Camera (Number of Channels)	16-Channels		
Face Recognition			
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5G. Name, gender, birthday, address, credential type, credential No., countries & regions & state can be added to each face image		
Face Recognition Performance of Ai by Recorder (Number of Channels)	1. 16-Channel FD (by camera) + FR (by recorder), image stream: 16 face images 2. 2-Channel FD (by recorder) + FR (by recorder), video stream: 12 face images		



Face Recognition Performance of Ai by Camera (Number of Channels)	16-Channels
SMD Plus	
SMD Plus by Recorder	8-Channels: Secondary filtering for human & motor vehicle, reducing false alarms caused by leaves, rain & lighting condition change
SMD Plus by Camera	16-Channels
Video Metadata	
Metadata Performance of Ai by Camera (Number of Channels)	8-Channels
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender & umbrella
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior & vehicle registration location
Non-Motor Vehicle Attributes	Vehicle model, vehicle color, number of persons & helmet
Vehicle License Plate Comparison	
ANPR by Camera (Number of Channels)	8-Channels
License Plate Database Capacity	1. Create up to 20,000 plate numbers 2. Blocklist & allowlist
Audio & Video	
Access Channel	32
Network Bandwidth	Ai Disabled: 384 Mbps incoming, 384 Mbps recording & 384 Mbps outgoing Ai Enabled: 200 Mbps incoming, 200 Mbps recording & 200 Mbps outgoing
Resolution	32MP, 24MP, 16MP, 12MP, 8MP, 5MP, 4MP, 1080p, 720p, D1, CIF & QCIF
Decoding Capability	Ai Disabled: 2-Channel 32MP@20fps, 2-Channel 24MP@20fps, 4-Channel 16MP@30fps, 5-Channel 12MP@30fps, 8-Channel 8MP@30fps, 12-Channel 5MP@30fps, 16-Channel 4MP@30fps, 32-Channel 1080p@30fps Ai Enabled: 1-Channel 32MP@20fps, 1-Channel 24MP@20fps, 2-Channel 16MP@30fps, 4-Channel 12MP@30fps, 4-Channel 8MP@30fps, 8-Channel 5MP@30fps, 12-Channel 4MP@30fps, 24-Channel 1080p@



Video Output	2 VGA, 2 HDMI VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720 Heterogeneous video source output for HDMI1 & HDMI2 Simultaneous video source output for VGA1 & HDMI1 Simultaneous video source output for VGA2 & HDMI2
Multi-Screen Display	Main Screen: 1, 4, 8, 9, 16, 25, 36 Sub Screen: 1, 4, 8, 9, 16
Third-Party Camera Access	ONVIF, Panasonic, Sony, Axis, Arecont, Pelco, Canon & Samsung
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, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP search, Multicast, P2P, Auto registration & iSCSI
Mobile Phone Access	iOS & Android
Interoperability	ONVIF 22.06 (Profile T, Profile S, Profile G), CGI & SDK
Browser	Chrome IE Safari Edge Firefox
Network Mode	Multi-address mode, load balance, fault tolerance & other network port binding modes
Recording Playback	
Multi-Channel Playback	Up to 16-Channels
Record Mode	General, motion detection, intelligent, alarm & POS
Backup Method	USB device & network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face & 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 & non-motor vehicles), SMD Plus, stereo analysis, crowd distribution, people counting, ANPR, vehicle density & heat map
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	2-Channel RCA
Alarm Input	16-Channels
Alarm Output	6-Channels (1-Channel 12 V 1 A output)
HDD Interface	4 SATA ports, each disk can contain up to 16TB. This limit varies depending on the environment temperature
eSATA	1
RS-232	1
RS-485	1 (Half-duplex serial communication)
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)
HDMI	2
VGA	2
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)

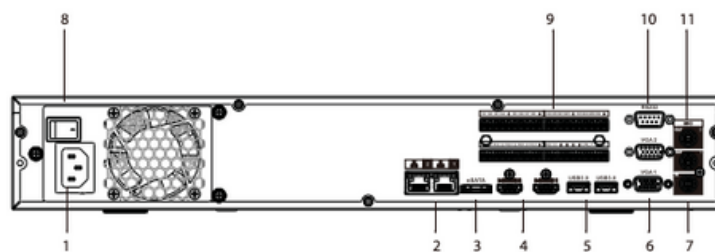
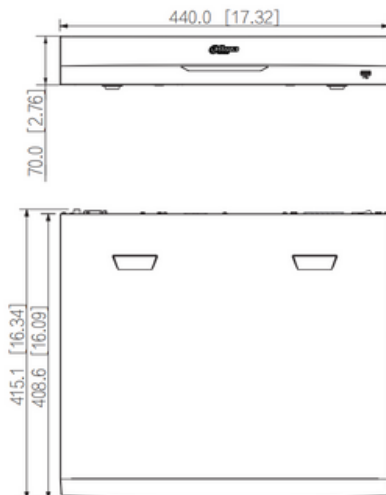
General

Power Supply	100-240 VAC, 50-60 Hz
Power Consumption	Total output of NVR is ≤13W (without HDD)
Net Weight	4.74 kg (10.45 lb)
Gross Weight	6.11 kg (13.47 lb)
Product Dimensions	440.0 mm × 415.1 mm x 70.0 mm (17.32" × 16.34" × 2.76") (W × D × H)
Packaging Dimensions	530.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27") (W × D × H)
Operating Temperature	-10°C ~ +55°C (14°F ~ +131°F)
Storage Temperature	-20°C ~ +60°C (-4°F ~ +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, 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

Dimensions



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