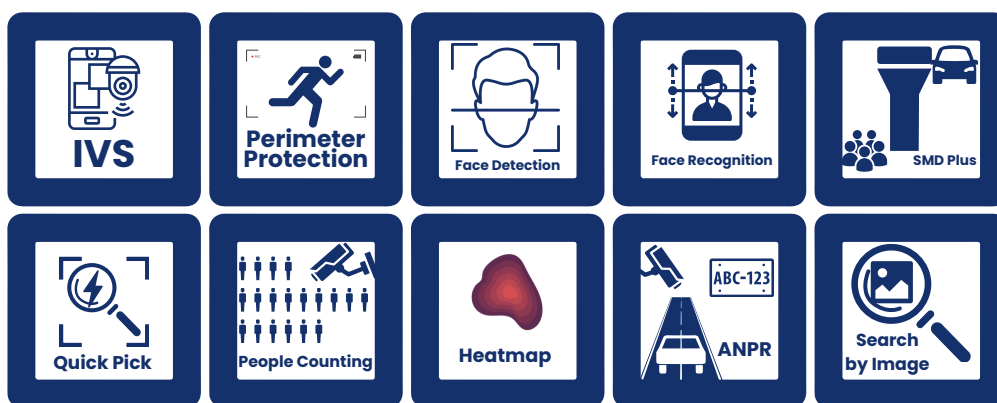




DNVR4KWS3204-16P-Ai



Key Features



- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (180Mbps when Ai function is enabled)
- Max. decoding capability: 16 x 1080p@30fps. Supports adaptive decoding
- Ai by NVR: 1-Channel face detection & recognition, 2-Channel perimeter protection, up to 10 face databases & 20,000 face images, 4-Channel SMD Plus
- Ai by Camera: Face detection & recognition, perimeter protection, SMD Plus, ANPR, people counting, stereo analysis & heat map
- Connected to the third-party network cameras
- Security baseline 2.3



Specifications

System		DNVR4KWS3204-16P-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, 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 rules for each channel	
Perimeter Performance of AI by Camera (Number of Channels)	8-Channels	
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/s each channel)	
Face Detection Performance of AI by Camera (Number of Channels)	8-Channels	
Face Recognition		
Face Database Capacity	Up to 10 face databases with 200,000 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)	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)	8-Channels	

**SMD Plus**

SMD Plus by Recorder	4-Channels: Secondary filtering for human & motor vehicle, reducing false alarms caused by leaves, rain & lighting condition change
SMD Plus by Camera	8-Channels

Vehicle License Plate Comparison

ANPR by Camera (Number of Channels)	4-Channels
License Plate Database Capacity	Create up to 20,000 plate numbers Blocklist & Allowlist

Audio & Video

Access Control	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, 6-Channel 5MP@30fps, 8-Channel 4MP@30fps, 16-Channel 1080p@30fps AI Enabled: 1-Channel 16MP@30fps, 2-Channel 12MP@30fps, 3-Channel 8MP@30fps, 4-Channel 5MP@30fps, 6-Channel 4MP@30fps, 12-Channel 1080p@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 source output for VGA & HDMI is configurable</i>
Multi-Screen Display	1st Screen: 1, 4, 8, 9, 16, 25, 36 2nd Screen: 1, 4, 8, 9, 16
Third-Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon

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, P2P, auto register
Mobile Phone Access	iOS & Android
Interoperability	ONVIF 22.06 (Profile T, Profile S, Profile G), CGI, SDK

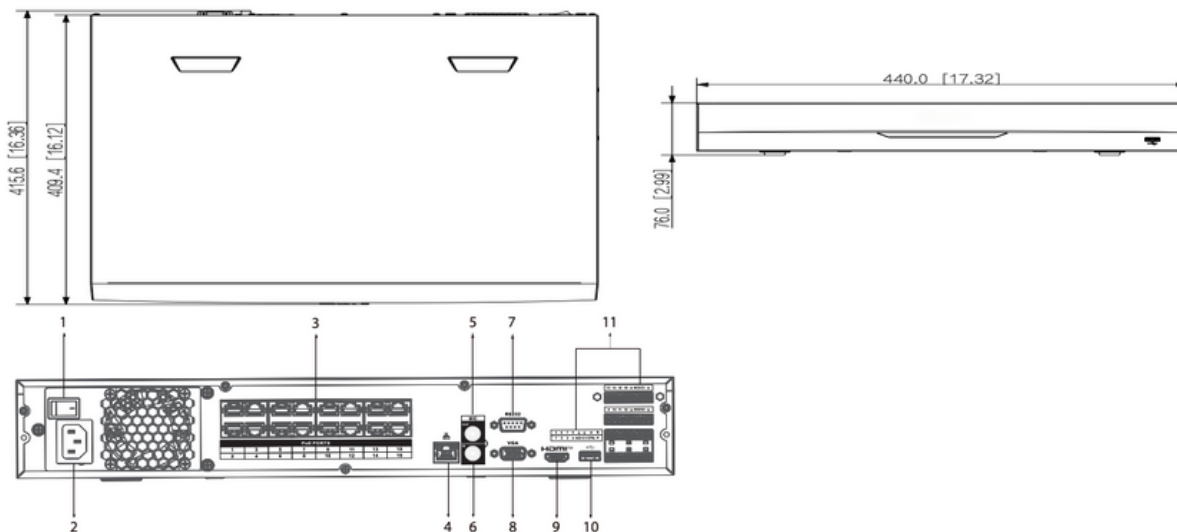


Browser	Chrome, IE9 & later, Firefox
Recording Playback	
Multi-Channel Playback	Up to 16-Channels
Record Mode	General, motion detection, intelligent, alarm
Backup Method	USB device & network
Playback Mode	Instant playback, general playback, event playback, tag playback & smart playback
Storage	
Disk 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 & cyber security 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	16-Channels
Alarm Output	4-Channels
HDD Interface	4 SATA ports, up to 16TB. The max. 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 802.3af/at
General	
Power Supply	100 ~ 240VAC, 50 ~ 60Hz
Power Consumption	Total output of NVR is <10W (without HDD) Total output power of PoE is 150W, the max. output power of a single port is 25.5W
Net Weight	4.82kg (10.63lb)
Gross Weight	6.78kg (14.95lb)
Product Dimensions	440.0mm x 415.6mm x 76.0mm (17.32" x 16.36" x 2.99") (W x D x H)
Packaging Dimensions	529.0mm x 499.0mm x 211.0mm (20.83" x 19.65" x 8.31") (W x D x 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%
Installation	Rack or desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN55032:2015+A1:2020, EN IEC61000-3-2:2019+A1:2021, EN61000-3-3:2013+A1:2019+A2:2021, EN55035:2017+A11:2020, EN50130-4:2011+A1:2014 CE-LVD: EN62368-1:2014

Dimensions



- 1 - Power Switch
- 3 - PoE Ports
- 5 - Mic Out, RCA Connector
- 7 - RS-232 port
- 9 - HDMI port
- 11 Alarm In/Out

- 2 - Power Input
- 4 - Network Port
- 6 - Mic In, RCA Connector
- 8 - VGA port
- 10 - USB port