



DNVR4KU32-Ai



Key Features



- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG decoding format
- 32-Channel 1080p self-adaptive decoding capability
- Max. 384 Mbps incoming, recording & outgoing bandwidth
- Support RAID 0, 1, 5, 6, 10
- 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 & people counting
- Security baseline 2.3.



Specifications

System		DNVR4KU32-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		
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-Channel (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 image 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: 384Mbps incoming, 384Mbps recording & 384Mbps outgoing Ai enabled: 200Mbps incoming, 200Mbps recording & 200Mbps 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@30fps
Video Output	2-Channel VGA, 2-Channel HDMI video output Heterogeneous video source output for HDMI1 & HDMI2 Simultaneous video source output for VGA1 & HDMI1 Simultaneous video source output for VGA2 & HDMI2 Supports 4K display



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, RTSP, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search, Multicast, P2P & Auto Registration
Mobile Phone Access	iOS & Android
Interoperability	ONVIF 21.12 (Profile T, Profile S, Profile G), CGI, SDK
Browser	Chrome IE 9 & later 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
RAID	RAID 0, 1, 5, 6, 10
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	8-Channels (1-Channel 12 V 1 A output)
HDD Interface	8 SATA ports, up to 16TB. The max. HDD capacity varies with environment temperature
eSATA	1
RS-232	1
RS-485	2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 port)
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	6.4 kg (14.11 lb)
Gross Weight	9.01 kg (19.86 lb)
Product Dimensions	439.9 mm × 457.9 mm × 89.0 mm (17.32" × 18.03" × 3.50") (W × D × H)
Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (W × D × H)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Installation	Rack or desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, ClassA CE-EMC: EN 55032:2015+A1: 2020, EN IEC 6100-3-2:2019+A1: 2021, EN 6100-3-3: 2013+A1: 2019+A2:2021, EN 55035: 2017+A1: 2020, EN 50130-4: 2011+A1: 2014 CE-LVD: EN 62368-1: 2014