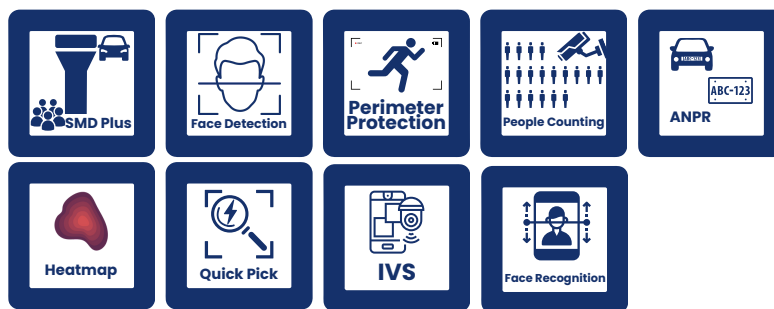




DNVR4K1602-16P-Ai



Key Features



- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG decoding format
- Access, storage or forwarding@256Mbps. (180Mbps when AI function is 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		DNVR4K1602-16P-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, and 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)		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 databases with 20,000 images, with a total capacity of 2.5G. Name, gender, birthday, address, credential type, credential No., countries and 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	16-Channels
Network Bandwidth	AI Disabled: 256Mbps incoming, 256Mbps recording and 256Mbps outgoing AI Enabled: 180Mbps incoming, 180Mbps recording and 180Mbps 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 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
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 and HDMI is configurable.</i>
Multi-Screen Display	1st Screen: 1/4/8/9/16 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

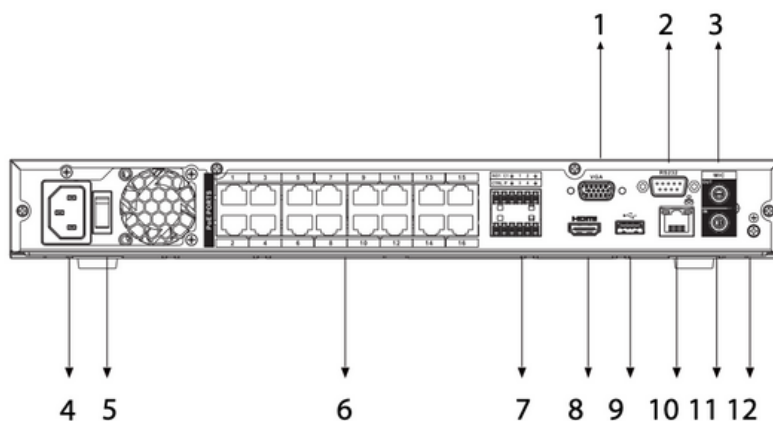


Backup Method	USB device and network
Playback Mode	Instant, general, event, tag and smart playback
Storage	
Disk Group	Yes
Alarm	
General Alarm	Motion Detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, 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-Channel
Alarm Output	2-Channels
HDD 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, 1,000 Mbps Ethernet port, RJ-45)
PoE Port	16 ports, 10, 100Mbps, IEEE802.3 af/at
General	
Power Supply	100 ~ 240 VAC, 47 ~ 63 Hz
Power Consumption	Total output of NVR is <10W (Without HDD). Total output power of PoE is 130W, the max. output power of a single port is 25.5W
Net Weight	2.60kg (5.73lb)



Gross Weight	3.80kg (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)
Packaging 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°F ~ +140°F)
Operating Humidity	10% ~ 93% (RH)
Installation	Rack or Desktop
Certifications	FCC: 47 CFR FCC Part 15, Subpart B, 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 - VGA Port | 2 - RS-232 Port |
| 3 - Audio Out, RCA Connector | 4 - Power Input |
| 5 - Power Switch | 6 - PoE Ports |
| 7 - Alarm In/Out | 8 - HDMI Port |
| 9 - USB Port | 10 - Network Port |
| 11 - Audio In, RCA Connector | 12 - Ground |