

## NVR5232-EI

Video recorder NVR5232-EI

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats
- Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps
- Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth
- Supports IP cameras with a resolution up to 32 MP
- Supports AcuPick with up to 32 channels
- Supports N+M cluster, iSCSI
- AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus

Number of channels	32 channel
Type	NVR
Megapixel	32 MP
Max HDD count	2 HDD
Max HDD capacity	16 TB



## Detailed

<b>System</b>	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web, Local GUI
<b>AI</b>	

AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus
AI by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map
AcuPick AI by Camera + Recorder	Max. 32-channel, 1 combined event per channel/s
<b>Perimeter Protection</b>	
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)	All channels (16 targets/s)
<b>Face Detection</b>	
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/s each channel)
Face Detection Performance of AI by Camera (Number of Channels)	16 channels
<b>Face Recognition</b>	
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. 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)	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera (Number of Channels)	16 channels
<b>SMD Plus</b>	

SMD Plus by Recorder	8 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 (32 targets/s)
<b>Video Metadata</b>	
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 and 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.
<b>Vehicle License Plate Comparison</b>	
ANPR by Camera (Number of Channels)	All channels (8 targets/s)
License Plate Database Capacity	<ol style="list-style-type: none"> <li>1. Create up to 20,000 plate numbers.</li> <li>2. Blocklist and allowlist</li> </ol>
<b>Audio and Video</b>	
Access Channel	32 channels
Network Bandwidth	<p>AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing</p> <p>AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing</p>
Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF
Decoding Capability	AI disabled: 2-channel 32 MP@25 fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30

	<p>fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 10-channel 6 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps</p> <p>AI enabled: 1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps</p>
Video Output	<p>1 VGA, 1 HDMI</p> <p>VGA:1920 × 1080, 1280 × 1024, 1280 × 720</p> <p>HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720</p> <p>Heterogeneous video source output for HDMI and VGA</p>
Multi-screen Display	<p>Main screen: 1/4/8/9/16/25/36</p> <p>Sub screen: 1/4/8/9/16</p>
Third-party Camera Access	<p>ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha</p>
<b>Compression Standard</b>	
Video Compression	<p>Smart H.265+; H.265; Smart H.264+; H.264; MJPEG</p>
Audio Compression	<p>G.711a; G.711u; PCM; G726</p>
<b>Network</b>	
Network Protocol	<p>HTTP; HTTPS; TCP/IP; IPv4; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI</p>
Mobile Phone Access	<p>iOS; Android</p>
Interoperability	<p>ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK</p>
Browser	<p>Chrome; IE; Safari; Edge; Firefox</p>
<b>Recording Playback</b>	
Multi-channel Playback	

	Up to 16 channels
Record Mode	General, motion detection; intelligent; alarm; POS
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
<b>Storage</b>	
Disk Group	Yes
<b>Alarm</b>	
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal 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, and 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
<b>Port</b>	
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	4 channels

Alarm Output	2 channels
Disk Interface	2 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the 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)
<b>General</b>	
Power Supply	12 VDC, 4 A
Power Consumption	Total output of NVR is $\leq$ 10 W (without HDD)
Net Weight	1.57 kg (3.46 lb)
Gross Weight	2.73 kg (6.02 lb)
Product Dimensions	375.0 mm $\times$ 284.4 mm $\times$ 56.0mm (14.76" $\times$ 11.20" $\times$ 2.20") (W $\times$ D $\times$ H)
Packaging Dimensions	433.0 mm $\times$ 141.0 mm $\times$ 366.0 mm (17.04" $\times$ 5.55" $\times$ 14.41") (W $\times$ D $\times$ 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)
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