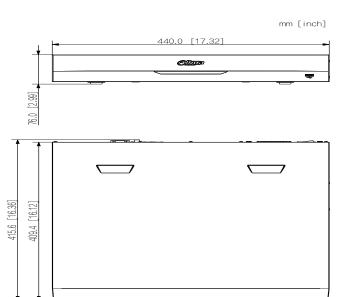
## NVR-E16W4N16

## 16CH 1.5U 4HDDs Network Video Recorder

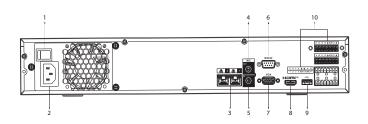


## Dimensions (mm[inch])



- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- $\cdot$  Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled).
- $\cdot$  Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding.
- $\cdot$  Al 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; ANPR; people counting; stereo analysis; heat map.
- $\cdot$  Connected to the third-party network cameras.
- · Security baseline 2.3.

## **Panels**



- 1 Power Switch
- 3 Network Ports
- 5 MIC IN PCA Connects
- 7 VGA Po
- 9 USB Port
- 2 Power Innu
- 4 MIC OLIT PCA Connecto
- 6 RS-232 Port
- 8 HDMI Port
- 10 Alarm In/Out

| Technical Specification  | on   |                              | Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing  |  |
|--|--|------------------------------|---|--|
| System   |  | Network Bandwidth            | Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing   |  |
| Main Processor   | Industrial-grade processor   | Resolution                   | 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;  |  |
| Operating System   | Embedded Linux   |                              | 960p; 720p; D1; CIF   |  |
| Operating Interface  | Web; Local GUI   |                              | Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel |  |
| Al   |  | Decoding Capability          |   |  |
| AI by Recorder   | Face detection; face recognition; perimeter protection; SMD Plus   | Decouning cupulanty          |   |  |
| AI by Camera   | Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map   |                              | 1080p@30 fps  1 HDMI, 1 VGA   |  |
| Perimeter Protection   |  | Video Output                 | HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720   |  |
| Perimeter Performance Al<br>by Recorder (Number of                           | 2 channels, 10 IVS rules for each channel  | ·                            | VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.  |  |
| Channels)  Perimeter Performance of All by Camera (Number of                 | 9 channels   | Multi-screen Display         | 1st Screen: 1/4/8/9/16<br>2nd Screen: 1/4/8/9/16  |  |
| Al by Camera (Number of Channels)  | 8 channels   | Third-party Camera<br>Access | Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon  |  |
| Face Detection   |  | Compression Stand            | Compression Standard  |  |
| Face Attributes  | Gender; age group; glasses; expressions; face mask; beard  | Video Compression            | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG   |  |
| Face Detection Performance of AI by Recorder (Number of Channels)            | 1 channel (up to 12 face images/s each channel)  | Audio Compression            | G.711a; G.711u; PCM; G726   |  |
|  |  | Network                      |   |  |
| Face Detection Performance of AI by Camera (Number of Channels)              | 8 channels   | Network Protocol             | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support IP camera; DVR; NVS; etc.); P2P; auto register   |  |
| Face Recognition   |  | Mobile Phone Access          | iOS; Android  |  |
| race necognition   |  | Interoperability             | ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK  |  |
| Face Database Capacity   | Up to 10 face databases with 200,00 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. | Browser                      | Chrome; IE9 and later; Firefox  |  |
|  |  | Recording Playback           |   |  |
| Face Recognition<br>Performance of AI by<br>Recorder (Number of<br>Channels) | 8-channel FD (by camera) + FR (by recorder),image<br>stream: 12 face images/s<br>1-channel FD (by recorder) + FR (by recorder), video<br>stream: 12 face images/s  | Multi-channel Playback       | Up to 16 channels   |  |
|  |  | Record Mode                  | General, motion detection; intelligent; alarm   |  |
|  |  | Backup Method                | USB device and network  |  |
| Face Recognition Performance of AI by Camera (Number of Channels)            | 8 channels   | Playback Mode                | Instant playback, general playback, event playback, tag playback, smart playback  |  |
|  |  | Storage                      |   |  |
| SMD Plus   |  | Disk Group                   | Yes   |  |
| SMD Plus by Recorder   | 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  | Alarm                        |   |  |
|  |  | General Alarm                | Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm  |  |
| SMD Plus by Camera   | 8 channels   | Anomaly Alarm                | Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity  |  |
| Vehicle License Plate  | Comparison   |                              | exception   |  |
| ANPR by Camera (Number of Channels)  | 4 channels   | Intelligent Alarm            | Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map  |  |
| License Plate Database<br>Capacity   | Create up to 20,000 plate numbers.     Blocklist and allowlist   | Alarm Linkage                | Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email  |  |
| Audio and Video  |  | Port                         |   |  |
| Access Channel   | 16 channels  | Audio Input                  | 1-channel RCA   |  |
|  |  |                              |   |  |

| Audio Output          | 1-channel RCA  |  |  |
|-----------------------|--|--|--|
| Alarm Input           | 16 channels  |  |  |
| Alarm Output          | 4 channels   |  |  |
| HDD Interface         | $4\mbox{SATA}$ ports, up to 16 TB.The maximum 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          | 2 (10/100/1000 Mbps Ethernet port, RJ-45)  |  |  |
| General               |  |  |  |
| Power Supply          | 100–240 VAC, 50-60Hz   |  |  |
| Power Consumption     | <10 W(without HDD)   |  |  |
| Net Weight            | 4.25 kg (10.63 lb)   |  |  |
| Gross Weight          | 6.35 kg (14.00 lb)   |  |  |
| Product Dimensions    | 440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × D × H)  |  |  |
| Packaging Dimensions  | 529.0 mm $\times$ 499.0 mm $\times$ 211.0 mm (20.83" $\times$ 19.65" $\times$ 8.31") (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)   |  |  |
| Installation          | Rack or desktop  |  |  |
| Certifications        | FCC: 47 CFR FCC Part15, SubpartB, Class A<br>CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:<br>2019+A1: 2021; EN 61000-3-3: 2013+A1: 2019+A2: 2021;<br>EN 55035: 2017+A11: 2020; EN 50130-4: 2011+A1: 2014<br>CE-LVD: EN 62368-1: 2014 |  |  |
|                       |  |  |  |