# N-AI4 PRO

**4 Channels 4 PoE 1HDD Network Video Recorder**



## Dimensions mm (inch)



204.6 [8.06]

45.6 [1.80]

206.4 [8.12]

204.6 [8.05]
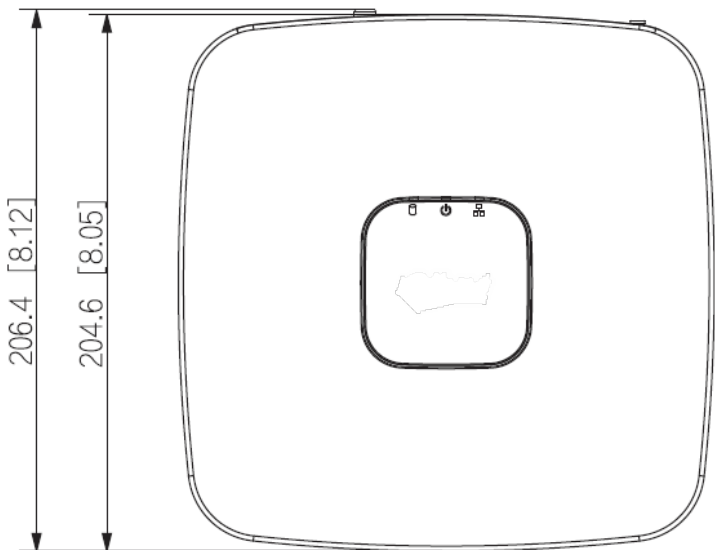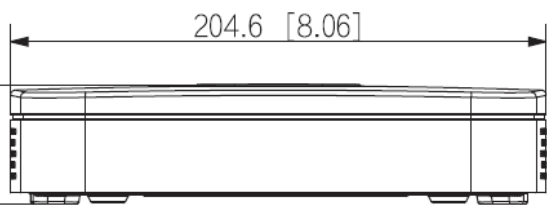
## Panels
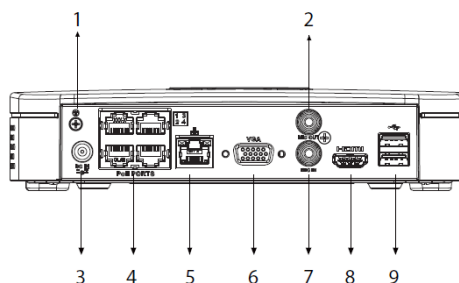


| | | | |
|---|---|---|---|
| 1 | Ground | 2 | AUDIO OUT, RCA Connector |
| 3 | Power Input | 4 | PoE Ports |
| 5 | Network Port | 6 | VGA Port |
| 7 | AUDIO IN, RCA Connector | 8 | HDMI Port |
| 9 | USB Ports | | |

## Technical Specification

**System**

| | |
|---|---|
| Main Processor | Industrial-grade embedded processor |
| Operating System | Embedded Linux |
| Operating Interface | Web, Local GUI |

**AI**

| | |
|---|---|
| AI by Camera | Face detection; face recognition; perimeter protection; SMD Plus |
| AI by Device | Face detection; face recognition; perimeter protection; SMD Plus; |

**Perimeter Protection**

| | |
|---|---|
| Perimeter Performance AI by Device (Number of Channels) | 1 |
| Perimeter Performance of AI by Camera (Number of Channels) | 4 |

## Technical Specification

### Face Detection

| | |
|---|---|
| Face Attributes | 6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard |
| Face Detection Performance of AI by Device (1080P) (Number of Channels) | 1 (up to 12 face images/second |
| Face Detection Performance of AI by Camera (Number of Channels) | 4 |

### Face Recognition

| | |
|---|---|
| Face Database Capacity | Up to 10 face databases with 5,000 images |
| Face Recognition Performance of AI by Device (1080P) (Number of Channels) | 1 (up to 4 face images/second) |
| Face Recognition Performance of AI by Camera (Number of Channels) | 1 |

### SMD Plus

| | |
|---|---|
| SMD Plus by Device | 4 |
| SMD Plus by Camera | 4-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away |

### Video

| | |
|---|---|
| Access Channel | 4 channels |
| Network Bandwidth | 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. |
| Resolution | 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 |
| Decoding Capability | AI disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 6-channel 1080p@30 fps<br>AI enabled: 1-channel 8MP@30 fps; 1-channel 5MP@30 fps; 2-channel 4MP@30 fps; 4-channel 1080p@30 fps |
| Video Output | 1 × VGA, 1 × HDMI (simultaneous) |
| Multi-screen Display | 1, 4 views |
| Third Party Camera Access | Onvif; RTSP; |

### Compression

| | |
|---|---|
| Video | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG |
| Audio | PCM; G711A; G711U; G726 |

### Network

| | |
|---|---|
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); P2P;Auto Registration |
| Mobile Phone Access | Android; iOS |
| Interoperability | ONVIF (profile T; profile S; profile G); CGI; SDK |
| Browser | Chrome; IE9 or later; Firefox |

### Record Playback

| | |
|---|---|
| Multi-channel Playback | Up to 4 channels |
| Record Mode | Manual record; alarm recordings; motion detection recordings; scheduled recordings |
| Storage | Local HDD and network |
| Backup | USB device |
| Playback Function | 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame<br>2. Full screen; backup (vide clip/file); partially zom in; audio on/off |

### Alarm

| | |
|---|---|
| General Alarm | Motion detection; privacy masking; video loss; PIR alarm; IPC alarm |
| Anomaly Alarm | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception |
| Intelligent Alarm | Face detection; face recognition; perimeter protection (intrusion and tripwire);  IVS; SMD Plus |
| Alarm Linkage | Recording; snapshot; buzzer; log; preset; email; tour |

### External Port

| | |
|---|---|
| HDD | 1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature |
| USB | 2 rear USB 2.0 ports |
| HDMI | 1 (max. resolution: 4K) |
| VGA | 1 |
| Network | 1 × RJ-45 (10 or 100 Mbps) |
| PoE | 4 × PoE ports, 10/100 Mbps |
| RCA Input | 1 |
| RCA Output | 1 |

## Technical Specification

### General

| | |
|---|---|
| Power Supply | 53 V DC, 1.13 A |
| Power Consumption | Total output of NVR is ≤ 10W (without HDD)Total output power of PoE is 38W, the maximum output power of a single port is 25.5W |
| Net Weight | 0.50 kg |
| Gross Weight | 1.43 kg |
| Product Dimensions | 204.6 mm × 206.4 mm × 45.6 mm (W × L × H) |
| Packaging Dimensions | 96 mm × 364 mm × 261 mm (W × L × H) |
| Operating Temperature | –10 °C to +55 °C |
| Storage Temperature | 0 °C to 40 °C |
| Operating Humidity | 10%–93% (RH) |
| Storage Humidity | 30%–85% |
| Operating Altitude | 3,000 m |
| Installation | Desktop |
| Certifications | FCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000-3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130-4:2011+A1:2014 CE-LVD:EN 62368-1:2014+A11:2017 |