

## iDS-9664NXI-M8/AF DeepinMind AIOP NVR



- Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP/32-ch@1080p decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 64-ch IP cameras can be connected
- Deep learning based video analytics for not wearing hard hat detection and event detection, including people running detection, people gathering detection, violent motion detection, using mobile phone detection, etc

## ▪ Specification

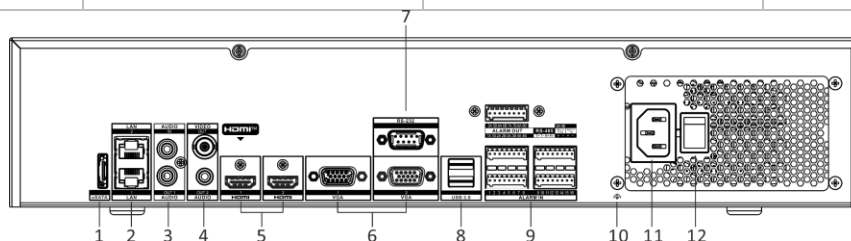
| AI Open Platform Performance         |                                                                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine                               | 4 * KT5 , 3 for small model analysis as default, 1 for larger model algorithm secondary analysis, 1 engine can support 4 algorithm models at the same time                 |
| Live Video Analysis                  | 1 engine can support up to 8ch, (8ch@4MP , 4ch @8MP)                                                                                                                       |
| Auto-Switch Video Analysis           | 1 engine can support up to 16ch, (switch time between 10 to 3600 seconds)                                                                                                  |
| Scheduled Capture Analysis           | 1 engine can support up to 16ch, (switch time between 3 to 3600 seconds)                                                                                                   |
| Offline Picture Analysis             | 4 images per GPU per second or 1 image per GPU per second ( Large model)                                                                                                   |
| Human                                |                                                                                                                                                                            |
| Facial recognition                   | Face Capture/Face Picture Comparison(32 face libraries, 100,000 pictures)                                                                                                  |
| Personnel Compliance                 | Hard Hat/Reflective Cloth/Skin Exposure/Goggles/Smoking/Phone Call/Using Phone/Sleeping (Face down)/Sleeping (Reclining)/Absence/Seatbelt/Person Overstay/Person Loitering |
| Workwear Registration and Comparison | Work uniform/Work hat                                                                                                                                                      |
| People Counting                      | Regional people counting/People counting statistics                                                                                                                        |
| Street Behaviour                     | Violent/Fall Down/Running/Gathering                                                                                                                                        |
| Vehicle                              |                                                                                                                                                                            |
| Vehicle Recognition                  | Excavator/Bulldozer/Dump Truck/Concrete Pump Truck/Crane/Cement Tanker/Tower Crane/Truck/Oil Tank Truck/Electric Moped/Bicycle/Coach/Small Sized Vehicle/Forklift/Tricycle |
| Environment                          |                                                                                                                                                                            |
| Smoke and Fire                       | Smoke/Fire                                                                                                                                                                 |
| Perimeter Protection                 | Intrusion detection/Line crossing detection/Region entrance detection/Region exiting detection                                                                             |
| Fire Escape Occupation Detection     | Fire_Escape_Occupation_Detection                                                                                                                                           |
| Object                               |                                                                                                                                                                            |
| Object Detection                     | Fire_Extinguisher/Oxygen_Cylinder/ Acetylene_Cylinder/ Gas_Cylinder/ Fire_Extinguisher_Box/Fire_Blanket/ Banner/ Dustbin/Traffic_Cone                                      |
| AIOP                                 |                                                                                                                                                                            |
| AI Open Platform Algorithm           | Detection model, Classification model, Mixed model (Detection model and Classification model), Double detection model                                                      |
| RAID                                 |                                                                                                                                                                            |
| RAID Type                            | RAID0, RAID1, RAID5, RAID6, RAID10                                                                                                                                         |
| Video and Audio                      |                                                                                                                                                                            |
| IP Video Input                       | 64-ch                                                                                                                                                                      |
| Incoming Bandwidth                   | 400 Mbps                                                                                                                                                                   |
| Outgoing Bandwidth                   | 256 Mbps                                                                                                                                                                   |
| Video Output Mode                    | HDMI1/VGA1 simultaneous output, HDMI2/VGA2 simultaneous output                                                                                                             |

|                            |                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HDMI Output                | <p>HDMI1 : 8K (7680 × 4320)/30 Hz, 4K (3840 × 2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1080P (1920 × 1080)/60 Hz</p> <p>HDMI2 : 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz</p> <p>*: When HDMI 1 output resolution is 8K, the maximum HDMI 2 output resolution is 1080p.</p>                                         |
| VGA Output                 | <p>VGA1 : 1080P (1920 × 1080)/60 Hz</p> <p>VGA2 : 1080P (1920 × 1080)/60 Hz</p>                                                                                                                                                                                                                                                                                                     |
| Audio Output               | 1-ch, RCA (Linear, 1 KΩ)                                                                                                                                                                                                                                                                                                                                                            |
| Two-Way Audio              | 1-ch, RCA (2.0 Vp-p, 1 KΩ)                                                                                                                                                                                                                                                                                                                                                          |
| <b>Decoding</b>            |                                                                                                                                                                                                                                                                                                                                                                                     |
| Decoding Format            | H.265/H.265+/H.264/H.264+                                                                                                                                                                                                                                                                                                                                                           |
| Decoding Capability        | Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP/32-ch@1080P                                                                                                                                                                                                                                                                                                             |
| Synchronous Playback       | 16-ch                                                                                                                                                                                                                                                                                                                                                                               |
| Recording Resolution       | <p>32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF</p> <p>*: After ultra HD resolution mode is enabled, the NVR supports up to 8-ch 32 MP/24 MP IP video inputs.</p>                                                                                                                                                                         |
| <b>Network</b>             |                                                                                                                                                                                                                                                                                                                                                                                     |
| Remote Connection          | 128                                                                                                                                                                                                                                                                                                                                                                                 |
| Network Protocol           | TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS                                                                                                                                                                                                                                                                              |
| API                        | ONVIF (profileS/G); SDK; ISAPI                                                                                                                                                                                                                                                                                                                                                      |
| Compatible Browser         | IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version                                                                                                                                                                                                                                                                                                               |
| Network Interface          | 2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface                                                                                                                                                                                                                                                                                                                          |
| <b>Auxiliary Interface</b> |                                                                                                                                                                                                                                                                                                                                                                                     |
| Ctrl 12V                   | <p>Controllable 12 V DC, 1 A power output for external alarm device; The power will be turned on when the alarm output is triggered.</p> <p>*: The Ctrl 12V power is controlled by alarm output 9.</p>                                                                                                                                                                              |
| DC 12V                     | 12 V DC, 1 A power output                                                                                                                                                                                                                                                                                                                                                           |
| SATA                       | 8 SATA interfaces; 3.5-inch HDD                                                                                                                                                                                                                                                                                                                                                     |
| Capacity                   | Up to 20 TB capacity for each HDD                                                                                                                                                                                                                                                                                                                                                   |
| eSATA                      | 1 eSATA interface                                                                                                                                                                                                                                                                                                                                                                   |
| Serial Interface           | 1 RS-232, 1 RS-485 (full-duplex)                                                                                                                                                                                                                                                                                                                                                    |
| USB Interface              | Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0                                                                                                                                                                                                                                                                                                                                   |
| Alarm In/Out               | 16/9                                                                                                                                                                                                                                                                                                                                                                                |
| <b>General</b>             |                                                                                                                                                                                                                                                                                                                                                                                     |
| GUI Language               | English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz, Brazilian Portuguese, Indonesian |
| Power Supply               | 100 V to 240 V AC, 50 Hz to 60 Hz                                                                                                                                                                                                                                                                                                                                                   |
| Consumption                | ≤ 75 W (without HDD)                                                                                                                                                                                                                                                                                                                                                                |

|                       |                               |
|-----------------------|-------------------------------|
| Working Temperature   | -10°C to 55°C (14°F to 131°F) |
| Working Humidity      | 10% to 90%                    |
| Dimension (W × D × H) | 442 mm × 460 mm × 88 mm       |
| Weight                | ≤ 13 kg (without HDD)         |

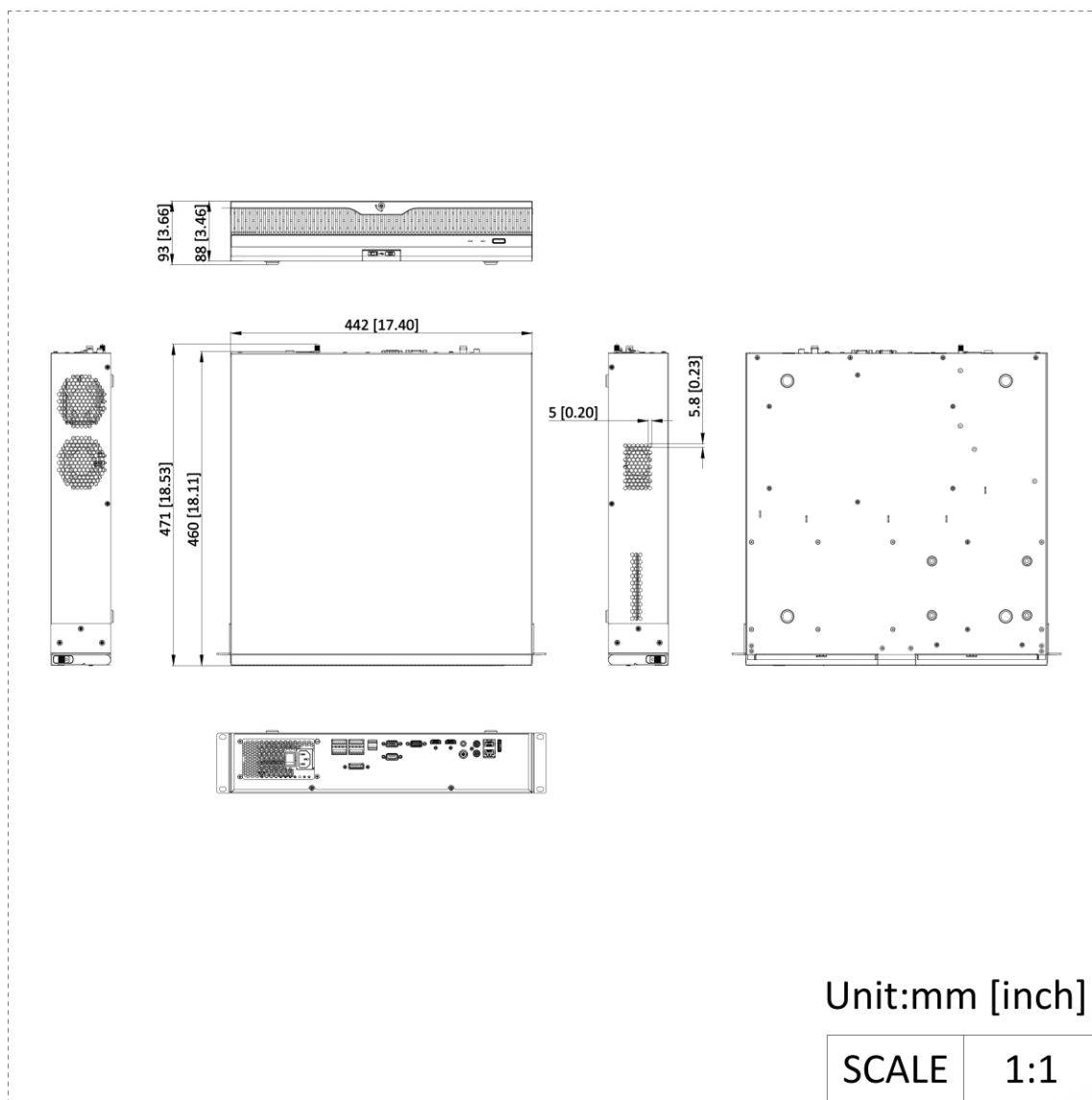
## ▪ Physical Interface

| No. | Description                  | No. | Description                                                      |
|-----|------------------------------|-----|------------------------------------------------------------------|
| 1   | eSATA interface              | 7   | RS-232 serial interface                                          |
| 2   | LAN interfaces               | 8   | USB 3.0 interfaces                                               |
| 3   | Audio in and out             | 9   | Alarmin, alarm out, RS-485 serial interface, Ctrl 12V and DC 12V |
| 4   | Audio out and video out      | 10  | GND                                                              |
| 5   | HDMI 1 and HDMI 2 interfaces | 11  | 100 to 240 VAC power supply                                      |
| 6   | VGA 1 and VGA 2 interfaces   | 12  | Power switch                                                     |



\*The physical interface diagram and outline dimension diagram only indicate the location of the power supply and do not represent the actual shape of the power supply.

## ▪ Dimension



# See Far, Go Further



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