

## iDS-96256NXI-S24R/AF DeepinMind AIOP NVR



- Up to 1-ch@32 MP/1-ch@24 MP/2-ch@12 MP/4-ch@8 MP/8-ch@4 MP/16-ch@1080p decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 256-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

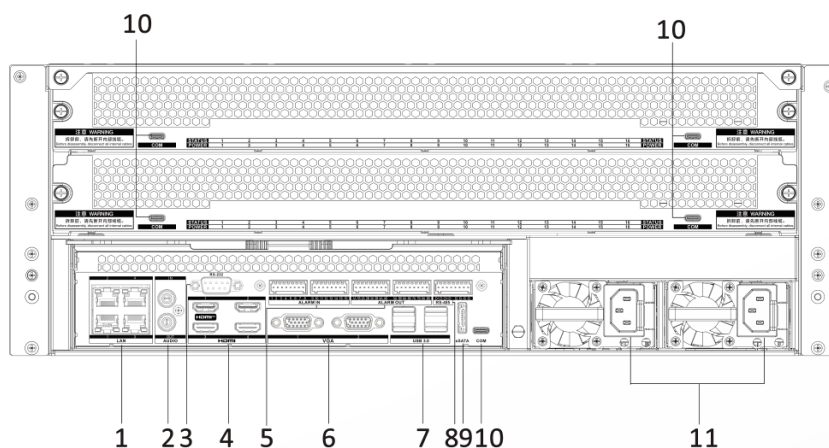
## ▪ Specification

| Model                        |                                      | iDS-96256NXI-S24R/AF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI Open Platform Performance | Engine                               | <p>iDS-96256NXI-S24R/AF:24 * KT5, 16 for small models analysis as default, 8 for large models algorithm secondary analysis;<br/>1 engine can support 4 small models at the same time, or 1 large model</p> <p>iDS-96256NXI-S24R/AF(标配)(样机), iDS-96256NXI-S24R/AF(中性)(样机):24 * KT5, 16 for small models analysis as default, 8 for large models algorithm secondary analysis;<br/>1 engine can support 4 small models at the same time, or 1 large model</p> <p>iDS-96256NXI-S24R/AF(中性)(Ultra)(样机):32 * KT5, 24 for small model analysis as default, 8 for large model algorithm secondary analysis, 1 engine can support 4 algorithm models at the same time</p> <p>iDS-96256NXI-S24R/AF(标配)(Ultra)(样机):32 * KT5, 24 for small models analysis as default, 8 for large models algorithm secondary analysis;<br/>1 engine can support 4 small models at the same time, or 1 large model</p> |
|                              | 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, (64 face libraries, 500,000 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                               | Fire_Extinguisher/Oxygen_Cylinder/Acetylene_Cylinder/Gas_Cylinder/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                            |                            |                                                                                                                                                                                                    |
|----------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | Detection                  | Fire_Extinguisher_Box/Fire_Blanket/ Banner/ Dustbin/Traffic_Cone                                                                                                                                   |
| <b>AIOP</b>                | AI Open Platform Algorithm | Detection model, Classification model, Mixed model (Detection model and Classification model), Double detection model                                                                              |
| <b>RAID</b>                | RAID Type                  | RAID0, RAID1, RAID5, RAID6, RAID10                                                                                                                                                                 |
| <b>Video and Audio</b>     | IP Video Input             | 256-ch                                                                                                                                                                                             |
|                            | Incoming Bandwidth         | 1280Mbps, or 640Mbps(RAID Mode)                                                                                                                                                                    |
|                            | Outgoing Bandwidth         | 768Mbps, or 512Mbps(RAID Mode)                                                                                                                                                                     |
|                            | Video Output Mode          | Simultaneous Output Mode : HDMI1, HDMI2, HDMI3, HDMI4, VGA1 and VGA2 provide simultaneous output,the maximum resolution is 1080p                                                                   |
|                            | HDMI Output                | HDMI1: 1080P (1920×1080) /60Hz<br>HDMI2: 1080P (1920×1080) /60Hz<br>HDMI3: 1080P (1920×1080) /60Hz<br>HDMI4: 1080P (1920×1080) /60Hz                                                               |
|                            | VGA Output                 | VGA1: 1080P (1920 × 1080)/60 Hz<br>VGA2: 1080P (1920 × 1080)/60 Hz                                                                                                                                 |
|                            | Audio Output               | 1-ch, RCA (Linear, 1 KΩ)                                                                                                                                                                           |
| <b>Decoding</b>            | Two-Way Audio              | 1-ch, RCA (2.0 Vp-p, 1 KΩ)                                                                                                                                                                         |
|                            | Decoding Format            | H.265/H.265+/H.264/H.264+                                                                                                                                                                          |
|                            | Decoding Capability        | Up to 1-ch@32 MP/1-ch@24 MP/2-ch@12 MP/4-ch@8 MP/8-ch@4 MP/16-ch@1080P                                                                                                                             |
|                            | Synchronous Playback       | 16-ch                                                                                                                                                                                              |
| <b>Network</b>             | Recording Resolution       | 32MP/24MP/16MP/12MP/8MP/7MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DC IF/2CIF/CIF/QCIF<br>*: After ultra HD resolution mode is enabled, the NVR supports up to 8-ch 32 MP/24 MP IP video inputs. |
|                            | Remote Connection          | 256                                                                                                                                                                                                |
|                            | Network Protocol           | TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS                                                                                             |
|                            | API                        | ONVIF (profile S/G); SDK; ISAPI                                                                                                                                                                    |
|                            | Compatible Browser         | IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version                                                                                                                              |
| <b>Auxiliary Interface</b> | Network Interface          | 4, RJ45 10/100/1000Mbps self-adaptive Ethernet interface                                                                                                                                           |
|                            | SATA                       | 24 SATA interfaces; 3.5-inch HDD                                                                                                                                                                   |
|                            | Capacity                   | Up to 20 TB capacity for each HDD                                                                                                                                                                  |
|                            | eSATA                      | 1 eSATA interface                                                                                                                                                                                  |
|                            | Serial Interface           | 1 RS-232, 2 RS-485 (half-duplex)                                                                                                                                                                   |

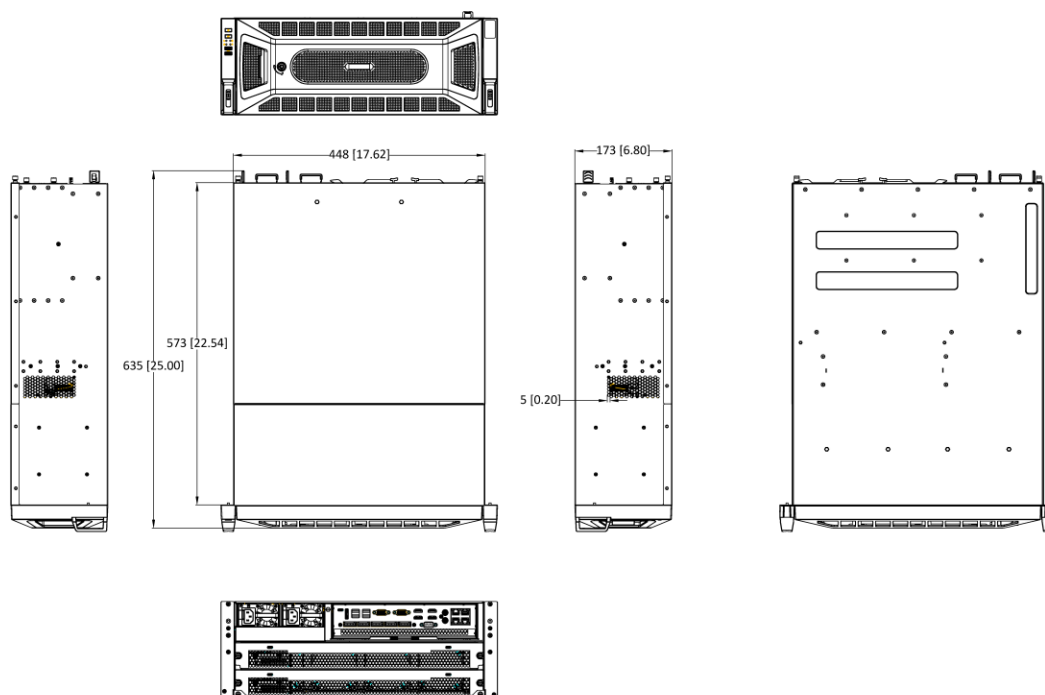
|         |                       |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | USB Interface         | Front panel: 2 × USB 2.0; Rear panel: 4 × USB 3.0                                                                                                                                                                                                                                                                                                                                            |
|         | Alarm In/Out          | 16/8                                                                                                                                                                                                                                                                                                                                                                                         |
| General | GUI Language          | English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz, Brazilian Portuguese, Indonesian |
|         | Power Supply          | 100V to 240V AC, 1200W, redundant power supply                                                                                                                                                                                                                                                                                                                                               |
|         | Consumption           | iDS-96256NXI-S24R/AF:≤680W (without HDD)<br>iDS-96256NXI-S24R/AF(中性)(样机):≤680W (without HDD)<br>iDS-96256NXI-S24R/AF(标配)(Ultra)(样机):≤800W(without HDD)<br>iDS-96256NXI-S24R/AF(中性)(Ultra)(样机):≤800W (without HDD)<br>iDS-96256NXI-S24R/AF(标配)(样机):≤680W (without HDD)                                                                                                                        |
|         | Working Temperature   | -10°C to 50°C (14°F to 122°F)                                                                                                                                                                                                                                                                                                                                                                |
|         | Working Humidity      | 10% to 90%                                                                                                                                                                                                                                                                                                                                                                                   |
|         | Dimension (W × D × H) | 448mm×573mm×173mm                                                                                                                                                                                                                                                                                                                                                                            |
|         | Weight                | ≤27kg(without HDD)                                                                                                                                                                                                                                                                                                                                                                           |

## Physical Interface



| No. | Description            | No. | Description        |
|-----|------------------------|-----|--------------------|
| 1   | LAN Interfaces         | 7   | USB 3.0 Interfaces |
| 2   | Audio In and Audio Out | 8   | RS-485 Interface   |
| 3   | RS-232 Interface       | 9   | eSATA Interface    |
| 4   | HDMI Interfaces        | 10  | COM                |
| 5   | Alarm In and Alarm Out | 11  | Power Supply       |
| 6   | VGA Interfaces         |     |                    |

## Dimension



Unit:mm [inch]

|       |     |
|-------|-----|
| SCALE | 1:1 |
|-------|-----|

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