# iDS-7616NXI-M2/X
# 16-ch 1U 8K DeepinMind NVR






- Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 16-ch IP cameras can be connected
- Intelligent analytics based on deep learning algorithm
- Up to 12-ch perimeter protection
- Up to 8-ch facial recognition for video stream, or up to 16-ch facial recognition for face picture
- Up to 6-ch video structuralization
- Up to 8-ch IP speakers can be connected

## ▪ Function

Professional and Reliability

1、H.265+ compression effectively reduces the storage space by up to 75%

2、Dual-stream recording saves bandwidth

3、Adopt stream over TLS encryption technology which provides more secure stream transmission service

4、Support double verification for playback and downloading

HD Video Output

1、Provide independent HDMI and VGA outputs

2、HDMI video output at up to 8K resolution

Storage and Playback

1、Up to 2 SATA interfaces for HDD connection

2、Up to 16-ch synchronous playback

Smart & POS Function

1、Support multiple VCA (Video Content Analytics) events

2、Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR (Automatic Number-Plate Recognition), and people counting

3、POS information overlay on live view and playback, and POS triggered recording and alarm

Network & Ethernet Access

1、2 self-adaptive 10/100/1000 Mbps Ethernet interfaces

2、Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management

3、Smooth streaming technology

4、Support web access without plug-in

## ▪ Specification

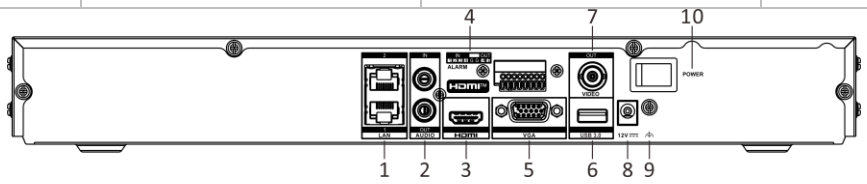
| | |
|---|---|
| **Intelligent Analytics** | |
| AI by NVR | Facial recognition, perimeter protection, video structuralization, AcuSearch |
| AI by Camera | Facial recognition, perimeter protection, video structuralization, AcuSearch , motion detection2.0, ANPR, people counting, VCA |
| Engine | 1 engine can run an intelligent algorithm, engine mode is adjustable |
| **AcuSearch** | |
| By Camera | All channels, up to 345,600 targets/day<br>The camera should enable AcuSearch function |
| By NVR | Up to 4-ch, up to 345,600 targets/day |
| **Perimeter Protection** | |
| By NVR | 12-ch 2 MP or 8-ch 4 MP or 4-ch 8 MP (Without Large Model)<br>6-ch 2 MP or 4-ch 4 MP or 2-ch 8 MP (With Large Model) |
| By Camera | All channels (powered by Large Model) |
| **Video Structuralization** | |
| Structured Analysis | Up to 6-ch 2 MP or 4-ch 4 MP or 2-ch 8 MP |
| Face Picture Library | Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB) |
| Face Picture Comparison | 8-ch;<br>Comparison speed: 16 pictures per second |
| **Target Recognition** | |
| Facial Detection and Analytics | Face picture comparison, human face capture, face picture search |
| Face Picture Library | Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB) |
| Face Picture Comparison (Captured from Camera) | Up to 16-ch;<br>Comparison speed: 24 pictures per second |
| Facial Detection and Analytics Performance | Up to 8-ch 2 MP or 4-ch 4 MP or 2-ch 8 MP |
| **ANPR** | |
| By Camera | All channels |
| Vehicle Attributes | Vehicle brand, vehicle color, vehicle type |
| Plate Attributes | Plate number, license plate color, license plate type |
| **Video and Audio** | |
| IP Video Input | 16-ch<br>Up to 32 MP resolution |
| Incoming Bandwidth | 256 Mbps |
| Outgoing Bandwidth | 256 Mbps |
| HDMI Output | 8K (7680 × 4320)/30Hz, 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz |
| VGA Output | 1920 × 1080/60Hz |
| Video Output Mode | HDMI/VGA independent output |
| CVBS Output | 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 |
| Audio Output | 1-ch, RCA (Linear, 1 KΩ) |

| | |
|---|---|
| Two-Way Audio | 1-ch, RCA (2.0 Vp-p, 1 k Ω) |
| **Decoding** | |
| Decoding Format | H.265/H.265+/H.264/H.264+ |
| Decoding Capability | 2-ch@32 MP (30 fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps) |
| Synchronous Playback | 16-ch |
| Recording Resolution | 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 |
| **Network** | |
| Remote Connection | 128 |
| Network Protocol | TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF(Version 2.2), OTAP |
| API | ONVIF (profile S/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 |
| Camera Access Protocol | ONVIF(Version 2.5), RTSP |
| **Auxiliary Interface** | |
| SATA | 2 SATA interfaces; 3.5-inch HDD |
| eSATA | 1 eSATA interface |
| Capacity | Up to 20 TB capacity for each HDD |
| USB Interface | Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0 |
| Alarm In/Out | 4/1 |
| **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 | 12 VDC, 5 A |
| Consumption | ≤ 50 W (without HDD) |
| Working Temperature | -10 to 55°C (14 to 131° F) |
| Working Humidity | 10 to 90% |
| Dimension (W × D × H) | 385 × 315 × 52 mm ( 15.2"× 12.4" × 2.0") |
| Weight | ≤ 3 kg (without HDD, 2.2 lb.) |
| **Certification** | |
| Obtained Certification | CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS |
| FCC | Part 15 Subpart B, ANSI C63.4-2014 |
| CE | EN 55032:2015+A1:2020, ENIEC61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019, EN 50130-4:2011+A1:2014, EN 55035:2017+A11:2020 |

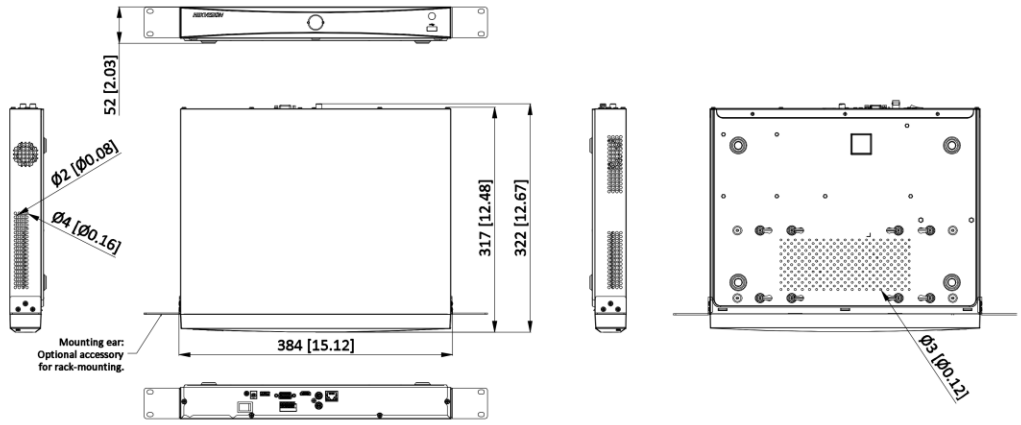
## ▪ Physical Interface

| No. | Description | No. | Description |
|---|---|---|---|
| 1 | LAN 1 and LAN 2 interfaces | 6 | USB 3.0 interface |
| 2 | Audio in and audio out | 7 | CVBS video output |
| 3 | HDMI interface | 8 | Power supply |
| 4 | Alarm in and alarm out | 9 | GND |

| | | | |
|---|---|---|---|
| 5 | VGA output | 10 | Power switch |




## ▪ Dimension




Unit:mm [inch]

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

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