# DS-7616NXI-I2/16P/S (E)
# AcuSense Series NVR

## Key Feature

- H.265+/H.265/H.264+/H.264 video formats
- Intelligent analytics based on deep learning algorithm
- Up to 4-ch perimeter protection
- Up to 4-ch facial recognition for video stream
- Up to 8-ch facial recognition for face picture
- Up to 16-ch IP camera inputs
- Up to 32-ch 1080p decoding capability

## Compression and Recording

- H.265+ compression effectively reduces the storage space by up to 75%
- Full channel IP cameras connection
- Compatible with third-party network cameras

## HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

## Storage and Playback

- Up to 2 SATA interfaces for HDD connection
- 16-ch synchronous playback at up to 1080p resolution

## Smart & POS Function

- Support multiple VCA (Video Content Analytics) events
- Smart search for the selected area in the video, and smart playback to improve the playback efficiency
- POS information overlay on live view and playback
- POS triggered recording and alarm

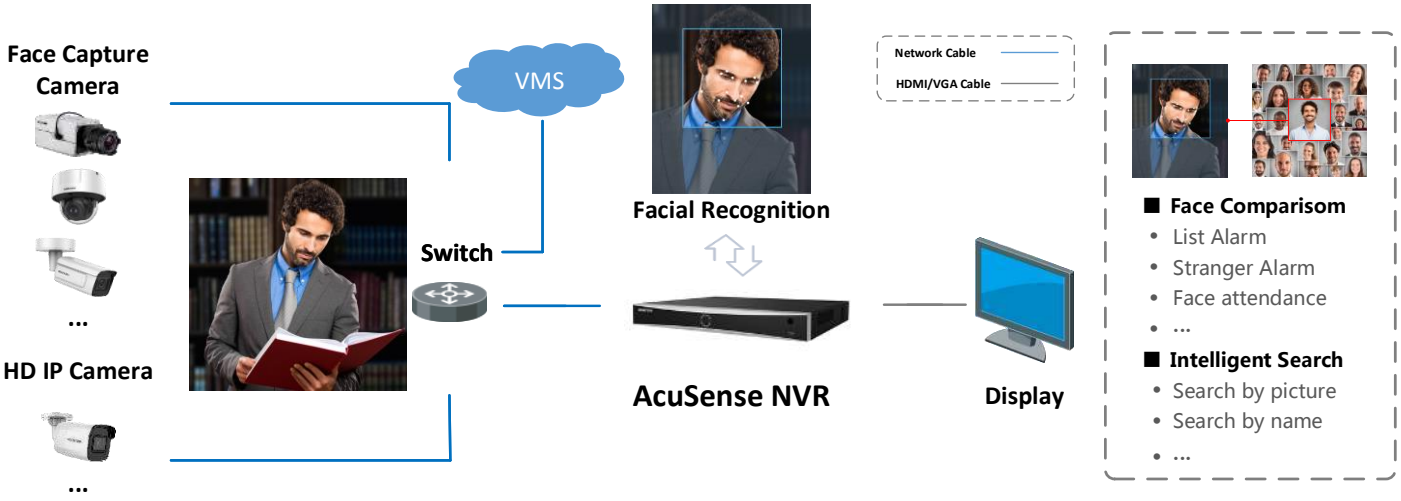
## Network & Ethernet Access

- 16 independent PoE network interfaces
- 1 self-adaptive 10/100/1000 Mbps Ethernet interface
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management

# Typical Application

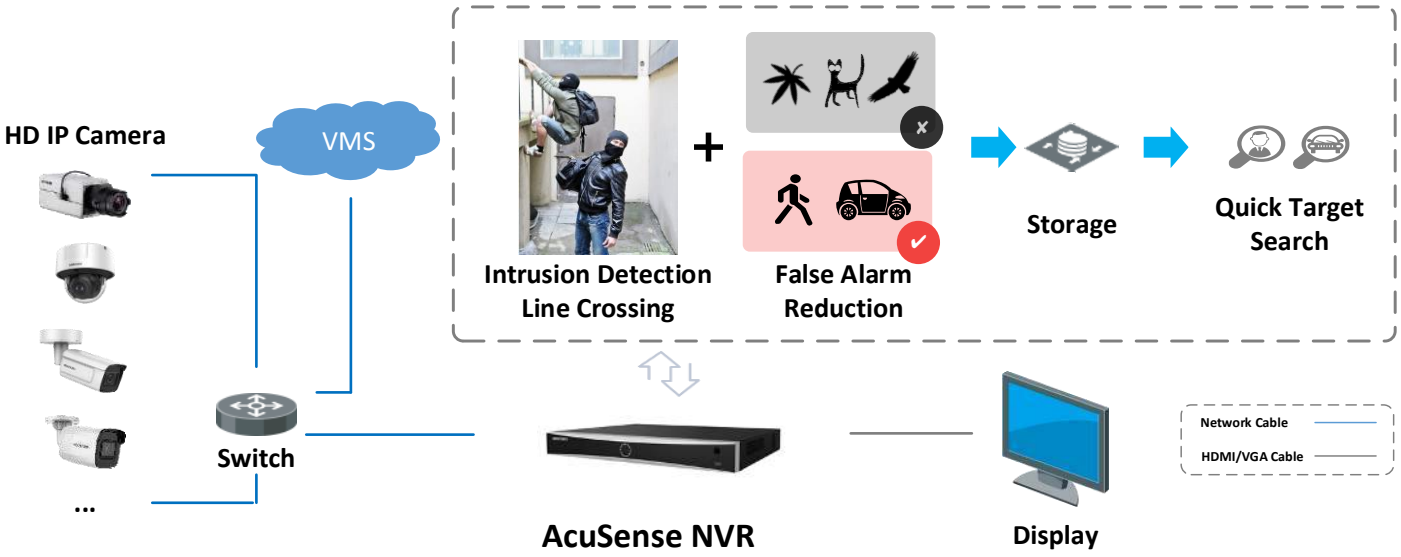
### Facial Recognition and Face Picture Comparison

Modeling and analyzing face pictures captured by cameras. Realize blocklist alarm and stranger alarm via face picture library. Search target people by picture and name features.




### Perimeter Protection

Adopt deep learning algorithm to reduce false alarm, effectively reduces the false alarm caused by tree branches, leaves, shadow, light, vehicles, small animals, etc.



## ▪ Specification

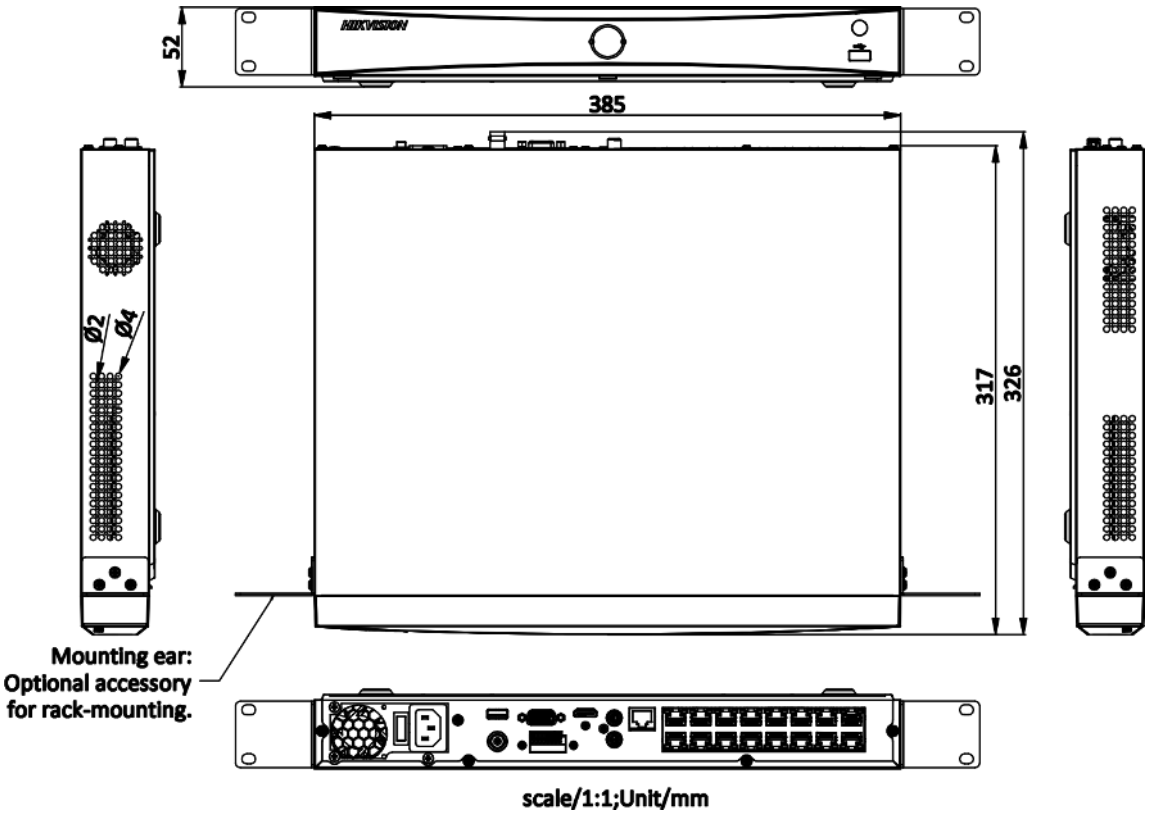
| | |
|---|---|
| **Intelligent Analytics** | |
| AI by NVR | Facial recognition, perimeter protection, motion detection 2.0 |
| AI by Camera | Facial recognition, perimeter protection, video structuralization, throwing objects from building, motion detection 2.0, ANPR, people counting, VCA |
| Engine | 1, engine mode is adjustable |
| **Facial Recognition** | |
| Face Picture Library | Up to 16 face picture libraries, with up to 50,000 face pictures in total (each picture ≤ 512 KB, total capacity ≤ 1 GB) |
| Face Picture Comparison | 8-ch |
| Facial Detection and Analytics | Face picture comparison, human face capture, face picture search |
| Facial Detection and Analytics Performance | 4-ch human face capture (HD network camera, up to 8 MP, H.264/H.265) |
| **Motion Detection 2.0** | |
| Human/Vehicle Analysis | |
| By NVR | All channels for Hikvision cameras |
| By Camera | All channels |
| **Perimeter Protection** | |
| Human/Vehicle Analysis | |
| By NVR | 4-ch, 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm;<br>Up to 12 rules in total |
| By Camera | All channels |
| **ANPR** | |
| By Camera | All channels |
| Vehicle Attributes | Plate number, license plate color, license plate type |
| Plate Attributes | Vehicle brand, vehicle color, vehicle type |
| **Video and Audio** | |
| IP Video Input | 16-ch |
| Incoming Bandwidth | 160 Mbps |
| Outgoing Bandwidth | 256 Mbps |
| HDMI Output | 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| VGA Output | 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz |
| 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 KΩ) |
| **Decoding** | |
| Decoding Format | H.265+/H.265/H.264+/H.264 |
| 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<br>32MP/24MP/12MP/8MP/7MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCI F/2CIF/CIF/QCIF<br>*: The NVR supports up to 4-ch 32 MP/24 MP IP video inputs. |
| Synchronous playback | 16-ch |
| Live View Window Division | 1/2/4/6/8/9/16 |
| Aux Port Window Division | 1/2/4/6/8/9/16 |
| Decoding Capability | Enable AI by NVR: 20-ch@1080p (30 fps)<br>Disable AI by NVR: 32-ch@1080p (30 fps) |
| Dual-Stream Recording | Support |
| Audio Compression | G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM |
| Stream Type | Video, Video & Audio |
| **Network** | |
| Network Interface | 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface |
| 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 (profile S/G); SDK; ISAPI |
| Compatible Browser | IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version |
| **PoE** | |
| Interface | 16, RJ-45 10/100 Mbps self-adaptive Ethernet interface |
| Power | ≤ 200W |
| Standard | IEEE 802.3 af/at |
| **Auxiliary Interface** | |
| SATA | 2 SATA interfaces |
| Capacity | Up to 14 TB capacity for each disk |
| Serial Interface | |
| Alarm In/Out | 4/1 |
| USB Interface | Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0 |

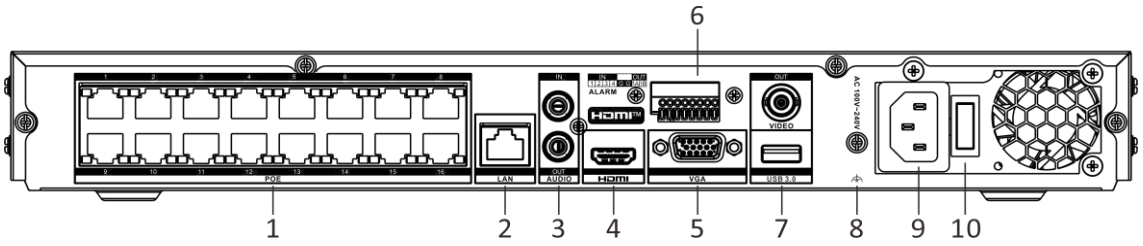
| General | |
|---|---|
| GUI Language | English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz , Brazilian Portuguese, Indonesian, Hebrew |
| Power Supply | 100 to 240 VAC, 50 to 60 Hz |
| Consumption | ≤ 30 W (without HDD and PoE off) |
| Working Temperature | -10° C to 55° C (14° F to 131° F) |
| Working Humidity | 10% to 90% |
| Chassis | 1U chassis |
| Dimension (W × D × H) | 385 × 317 × 52 mm ( 15.2"× 12.5" × 2.0") |
| Weight | ≤ 2.5 kg (without HDD, 5.5 lb.) |
| **Certification** | |
| Obtained Certification | CE, CB, REACH, WEEE, UKCA, LOA |
| CE | EN 55032:2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4 |

Note:
Facial recognition, motion detection 2.0 and perimeter protection cannot be enabled at the same time. Enable one function will make the others unavailable.

## Dimension


52
385
317
326
Ø2
Ø4
Mounting ear:
Optional accessory
for rack-mounting.
scale/1:1;Unit/mm

## Physical Interface




| No. | Description | No. | Description |
|---|---|---|---|
| 1 | PoE interfaces | 6 | ALARM IN/OUT |
| 2 | LAN network interface | 7 | USB interface and VIDEO OUT |
| 3 | AUDIO IN/AUDIO OUT | 8 | GND |
| 4 | HDMI interface | 9 | Power supply |
| 5 | VGA interface | 10 | Power switch |

## Available Model

DS-7616NXI-I2/16P/S (E)

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