

**DS-7616NXI-I2/16P/S(C)**  
**16-ch 1U 16 POE AcuSense 4K NVR**



- 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 1-ch facial recognition for video stream
- Up to 4-ch facial recognition for face picture
- Up to 16-ch IP camera inputs
- Up to 16-ch 1080p decoding capability

## ▪ Function

### Compression and Recording

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

- Full channel IP cameras connection

### 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

### 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 interfaces

- Hik-Connect for easy network management

## ▪ Specification

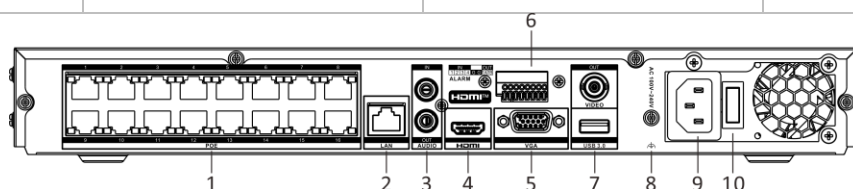
| Intelligent Analytics                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI by NVR                                  | Facial recognition, perimeter protection, motion detection 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AI by Camera                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Engine                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AcuSearch                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Performance                                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Perimeter Protection                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| By NVR                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| By Camera                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Facial Recognition                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Face Picture Library                       | Up to 16 face picture libraries, with up to 10,000 face pictures in total (each picture ≤ 512 KB, total capacity ≤ 150 MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Face Picture Comparison                    | 4-ch face picture comparison alarm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Facial Detection and Analytics             | Face picture comparison, human face capture, face picture search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Facial Detection and Analytics Performance | 1-ch human face capture (HD network camera, up to 8 MP, H.264/H.265)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Motion Detection 2.0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| By NVR                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| By Camera                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ANPR                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| By Camera                                  | <p>All channels</p> <p>Support Countries &amp; Regions:</p> <ol style="list-style-type: none"> <li>1. Myanmar, Philippines, Indonesia, Vietnam, Pakistan, New Zealand, Australia, Sri Lanka, Singapore, Malaysia</li> <li>2. Turkey, Croatia, Slovakia, Czech Republic, Bulgaria, Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, The United Kingdom, Ireland, Germany, Italy, Austria, Palestine, Latvia, Lithuania, Estonia, Belgium, Luxembourg, Ukraine, Uzbekistan, Kazakhstan, Mongolia, Moldova, Kyrgyzstan, Azerbaijan, Georgia, Armenia, Albania, Kosovo, Belarus, Cyprus, Denmark, Finland, Malta, Portugal, Romania, Slovenia, Sweden, Israel, Bosnia and Herzegovina, Turkmenistan, Montenegro, Serbia, Tajikistan, Iceland, Liechtenstein</li> <li>3. Argentina, Brazil, Chile, Colombia, Peru, Ecuador, Paraguay, Uruguay, Salvador, Bolivia, Canada, Algeria, Mexico, Panama, Costa Rica, Nigeria, Kenya, Mauritius, Tanzania, Cote d'Ivoire, South Africa, Tunisia, Sierra Leone, Zambia, Ghana, Zimbabwe, Uganda, Angola, Ethiopia, Republic of Trinidad and Tobago, Dominica, Guatemala, Senegal, Algeria, Cameroon</li> <li>4. Qatar, Kuwait, Oman, Jordan, Lebanon, Iraq, United Arab Emirates, Saudi Arabia, Bahrain, Egypt, Libya</li> </ol> |
| Vehicle Attributes                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Plate Attributes                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Devices and Servers                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Heat Map Cameras                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Video and Audio           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| IP Video Input            | 16                                                                                    |
| Incoming Bandwidth        | 160 Mbps                                                                              |
| Outgoing Bandwidth        | 256 Mbps                                                                              |
| HDMI Output               | 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz |
| VGA Output                | 1-ch, 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 KΩ)                                                            |
| Decoding                  |                                                                                       |
| Decoding Format           | H.265,H.265+,H.264,H.264+,MPEG4                                                       |
| Recording Resolution      | 12MP/8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF                  |
| Synchronous playback      | 16-ch                                                                                 |
| Live View Window Division | 1/4/6/8/9/16                                                                          |
| Aux Port Window Division  | 1/4/6/8/9/16                                                                          |
| Decoding Capability       | 16-ch @ 1080p (30 fps)                                                                |
| Audio Compression         | G.711ulaw,G.711alaw,G.722,G.726,MP2L2                                                 |
| Dual-Stream Recording     | Support                                                                               |
| Stream Type               | Video, Video & Audio                                                                  |
| Network                   |                                                                                       |
| Network Interface         | 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface                            |
| Remote Connection         |                                                                                       |
| Network Protocol          |                                                                                       |
| API                       |                                                                                       |
| Compatible Browser        |                                                                                       |
| Camera Access Protocol    | ONVIF(Version 2.5), RTSP                                                              |
| 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 10 TB capacity for each disk                                                    |
| Serial Interface          | RS-485 (half-duplex), RS-232, Keyboard                                                |
| Alarm In/Out              | 4/1                                                                                   |
| USB Interface             | Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0                                     |
| General                   |                                                                                       |
| Power Supply              | ≤ 280 W                                                                               |
| GUI Language              |                                                                                       |
| Consumption               | ≤ 15W                                                                                 |
| Working Temperature       | -10°C ~ + 55°C                                                                        |
| Working Humidity          | 10% to 90%                                                                            |
| Chassis                   | 1U                                                                                    |

|                        |                                          |
|------------------------|------------------------------------------|
| Dimension (W × D × H)  | 385 × 315 × 52 mm ( 11.6" × 9.5" × 1.6") |
| Weight                 | ≤ 3 kg (6.6 lb)                          |
| <b>Certification</b>   |                                          |
| Obtained Certification |                                          |
| CE                     |                                          |

## ▪ 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                |



## ▪ Dimension



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