DS-7900NXI-I4/16P/S  
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 1-ch facial recognition for video stream, or up to 4-ch facial recognition for face picture
- Up to 16/32-ch IP camera inputs
- Up to 16-ch 1080p decoding capability
- Up to 320 Mbps incoming bandwidth

Compression and Recording
- H.265+ compression effectively reduces the storage space by up to 75%
- Full channel IP cameras connection
- Adopt stream over TLS encryption technology which provides more secure stream transmission service
- Support double verification for playback and downloading

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

Storage and Playback
- Up to 4 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

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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
- Smooth streaming technology
- Support web access without plug-in

Typical Application

Facial Recognition and Face Picture Comparison
Modeling and analyzing face pictures captured by cameras. Realize blacklist 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

<table>
<thead>
<tr>
<th>Model</th>
<th>DS-7916NXI-I4/16P/S</th>
<th>DS-7932NXI-I4/16P/S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facial Recognition¹</td>
<td></td>
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<tr>
<td>Facial detection and analytics</td>
<td>Face picture comparison, human face capture, face picture search</td>
<td></td>
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<tr>
<td>Face picture library</td>
<td>Up to 16 face picture libraries, with up to 10,000 face pictures in total (each picture ≤ 512 KB, total capacity ≤ 150 MB)</td>
<td></td>
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<tr>
<td>Face picture comparison</td>
<td>4-ch face picture comparison alarm</td>
<td></td>
</tr>
<tr>
<td>Performance of facial detection and analytics</td>
<td>1-ch human face capture (HD network camera, up to 4 MP, H.264/H.265)</td>
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<tr>
<td>Perimeter Protection¹</td>
<td></td>
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<tr>
<td>False alarm reduction</td>
<td>Up to 4-ch 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm; Up to 12 rules in total</td>
<td></td>
</tr>
</tbody>
</table>

### Video and Audio

<table>
<thead>
<tr>
<th>IP video input</th>
<th>16-ch</th>
<th>32-ch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 12 MP resolution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming bandwidth</td>
<td>320 Mbps</td>
<td></td>
</tr>
<tr>
<td>Outgoing bandwidth</td>
<td>256 Mbps</td>
<td></td>
</tr>
</tbody>
</table>

**HDMI1 output**
- 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI1/VGA simultaneous output

**HDMI2 output**
- 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI2/VGA independent output

**VGA output**
- 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI1/VGA simultaneous 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 input**
- 1-ch, RCA (2.0 Vp-p, 1 KΩ)

### Decoding

**Decoding format**

**Recording resolution**
- 12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF

**Playback mode**
- Normal/Smart, Event, Tag, Eternal File

**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

**Capability**
- 16-ch @ 1080p (30 fps)

**Dual stream recording**
- Support

**Stream type**
- Video, Video & Audio

**Audio compression**
- G.711ulaw/G.711alaw/G.722/G.726/MP2L2

### Network

**Remote connections**
- 128

**Network protocol**
- TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI,
Network interface
1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface

PoE
Interface
16, RJ-45 10/100 Mbps self-adaptive Ethernet interface
Power
≤ 200 W
Supported standard
IEEE 802.3 af/at

Auxiliary interface
Serial port
RS-485 (half-duplex), RS-232, Keyboard
SATA
4 SATA interfaces supporting hot-plug
Capacity
Up to 10 TB capacity for each disk
eSATA
1 eSATA interface
Alarm in/out
16/8
USB interface
Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0

General
Power supply
100 to 240 VAC, 50 to 60 Hz
Total power
≤ 360 W
Consumption (without HDD)
≤ 30 W
Working temperature
-10 °C to 55 °C (14 °F to 131 °F)
Working humidity
10% to 90%
Chassis
19-inch rack-mounted 1.5U chassis
Dimension (W × D × H)
445 × 400 × 75 mm (17.5” × 15.7” × 3.0”)
Weight (without HDD)
≤ 7 kg (15.4 lb)

Certification
FCC
Part 15 Subpart B, ANSI C63.4-2014
CE
EN 55032:2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4

1: Facial recognition and perimeter protection cannot be enabled at the same time. Enable one function will make the other one unavailable.
Dimension

scale/1:1; Unit/mm

Unit: mm
### Physical Interface

<table>
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<th>No.</th>
<th>Description</th>
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<td>USB 3.0 interface</td>
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<td>2</td>
<td>eSATA interface</td>
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<td>Audio output</td>
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<tr>
<td>3</td>
<td>RS-232 serial interface</td>
<td>11</td>
<td>HDMI output</td>
</tr>
<tr>
<td>4</td>
<td>Audio input</td>
<td>12</td>
<td>RS-485 serial interface</td>
</tr>
<tr>
<td>5</td>
<td>VGA output</td>
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<td>Keyboard interface</td>
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<tr>
<td>6</td>
<td>100 to 240 VAC power supply</td>
<td>14</td>
<td>Controller Port, Alarm In/Alarm Out</td>
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<tr>
<td>7</td>
<td>PoE interfaces</td>
<td>15</td>
<td>GND</td>
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<tr>
<td>8</td>
<td>Network interface</td>
<td>16</td>
<td>Power Switch</td>
</tr>
</tbody>
</table>

### Available Model

DS-7916NXI-I4/16P/S, DS-7932NXI-I4/16P/S

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