

# Network Video Recorder

## NVR301-08E-P8-IQ



## Features

- Support Ultra H.265/H.265/H.264 video formats
- Support Plug & Play with 8 independent PoE network interfaces
- Support 1-ch HDMI, 1-ch VGA. HDMI up to 4K (3840x2160) resolution
- Support HDMI and VGA simultaneous output
- Support up to 12 Megapixels resolution recording
- Support SeekFree function: up to 8-ch with UNV Face/SIP/UMD IPC
- Support ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

## Specifications

| Model                           | NVR301-08E-P8-IQ                                                                                             |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|
| Decoding                        |                                                                                                              |
| Decoding Format                 | Ultra 265, H.265, H.264                                                                                      |
| Decoding Capability             | Smart Off: 1 x 12MP@30, 2 x 4K@30, 4 x 4MP@30, 8 x 1080P@30<br>Smart On: 2 x 4K@30, 4 x 4MP@30, 8 x 1080P@30 |
| Decoding Capability Description | The resolution of each channel cannot exceed 8192 pixels in length and 4096 pixels in width                  |
| Audio Compression               | G.711A, G.711U                                                                                               |
| Network                         |                                                                                                              |
| Incoming Bandwidth              | 80 Mbps                                                                                                      |
| Outgoing Bandwidth              | 80 Mbps                                                                                                      |

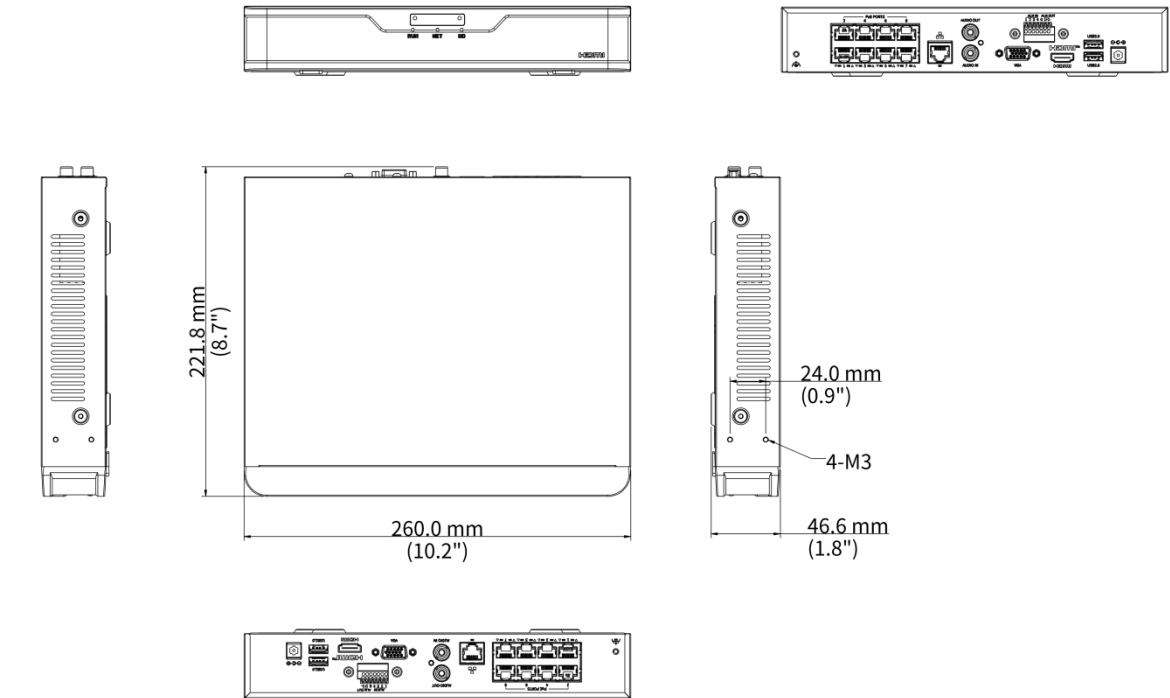
|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max Users Can Be Added           | 32                                                                                                                                                                              |
| Max Remote Users                 | 128                                                                                                                                                                             |
| Protocols                        | TCP/IP, P2P, SMTP, NFS, RTSP, UPnP, NTP, DHCP, PPPoE, HTTP, DNS, DDNS, IPv6, IPv4, HTTPS                                                                                        |
| Browser (Plugin)                 | Chrome 45+, Edge 79+, Firefox 52+                                                                                                                                               |
| Browser (Plugin-Free)            | Chrome 57+, Edge 16+, Firefox 58+, Safari 11+                                                                                                                                   |
| Video/Audio Input                |                                                                                                                                                                                 |
| IP Video Input                   | 8-ch                                                                                                                                                                            |
| RCA Audio Input                  | 1-ch                                                                                                                                                                            |
| Peripheral Input                 |                                                                                                                                                                                 |
| Ip Speaker                       | 32-ch                                                                                                                                                                           |
| POS                              | All channels                                                                                                                                                                    |
| Video/Audio Output               |                                                                                                                                                                                 |
| Video Output                     | Support 1-ch HDMI, 1-ch VGA, HDMI and VGA simultaneous output                                                                                                                   |
| HDMI Output                      | 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1280 × 720/60 Hz,                                                                                                 |
| VGA Output                       | 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1280 × 720/60 Hz                                                                                                                          |
| HDMI Standard                    | HDMI1.4                                                                                                                                                                         |
| BNC Audio Output                 | N/A                                                                                                                                                                             |
| RCA Audio Output                 | 1-ch                                                                                                                                                                            |
| Liveview Display                 | 1/4/6/8/9                                                                                                                                                                       |
| Default Num of Live Screen       | 9                                                                                                                                                                               |
| Corridor Mode Screen             | 3/4/5/7/9                                                                                                                                                                       |
| Playback Screen                  | 1/4/9                                                                                                                                                                           |
| Corridor Mode Screen of Playback | 1/3                                                                                                                                                                             |
| Two-way Audio                    |                                                                                                                                                                                 |
| Two-way Audio                    | 1-ch, RCA (Using the audio input and output)                                                                                                                                    |
| Recording                        |                                                                                                                                                                                 |
| Recording Resolution             | 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF                                                                                                                      |
| Num of Concurrent Playback       | 16-ch                                                                                                                                                                           |
| Synchronous Playback in Local    | 8-ch                                                                                                                                                                            |
| Smart Function                   |                                                                                                                                                                                 |
| Smart by IPC                     | All channels (up to 8 images/s in total) Face Detection, Face Comparison, Vehicle Detection (LPR), Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring          |
| Smart by NVR                     | Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Ultra Motion Detection (UMD)                                                                                 |
| Smart by NVR Analyzer Mode       | Single Mode (Face Recognition), Single Mode (SIP), Single Mode (UMD), Single Mode (AcuSearch/AcuTrack), Modes cannot active simultaneously, only one mode can active at a time. |
| VCA Search                       | Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Heat Map               |
| AcuSearch                        |                                                                                                                                                                                 |
| Acu Search Performance           | All channels with UNV SIP/UMD Camera                                                                                                                                            |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AcuTrack                                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Acu Track Performance                     | All channels with UNV SIP/UMD Camera                                                                                                                                                                                                                                                                                                                                                                                      |
| SeekFree                                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SeekFree Performance                      | All channels with UNV SIP/UMD Camera                                                                                                                                                                                                                                                                                                                                                                                      |
| SeekFree Language                         | English                                                                                                                                                                                                                                                                                                                                                                                                                   |
| face detection                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| face detection by NVR                     | Up to 4-ch with UNV Face Detection Camera, Up to 1-ch with normal camera (UNV and Third-part brand, 1-ch 2MP)                                                                                                                                                                                                                                                                                                             |
| Search by Image                           | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Plate Comparison                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Vehicle Number Library                    | Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total                                                                                                                                                                                                                                                                                                                                            |
| SIP                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SIP by NVR with normal cameras            | Up to 2-ch with normal camera (UNV and Third-part brand, 2-ch 2MP, 1-ch 4MP)                                                                                                                                                                                                                                                                                                                                              |
| UMD                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| UMD by NVR with normal cameras            | Up to 4-ch with normal camera (UNV and Third-part brand, 4-ch 2MP, 2-ch 4MP, 1-ch 4K)                                                                                                                                                                                                                                                                                                                                     |
| analysis                                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| analysis with normal cameras              | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| analysis Type                             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Video Metadata                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Video Metadata by NVR with normal cameras | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Video Metadata Type                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Capacity of Smart Snapshots               |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Capacity of Snapshot Records              | 500 thousand records for face snapshot, 500 thousand records for vehicle snapshot, 500 thousand records for SIP                                                                                                                                                                                                                                                                                                           |
| Alarm                                     |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| General Alarm                             | Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Audio Detection, Alarm Input                                                                                                                                                                                                                                 |
| Alert Alarm                               | IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal                                                                                                                                                                                                                                                                          |
| GUI Language                              |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| GUI Language                              | 38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian |
| Hard Disk                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SATA                                      | 1 SATA Interface                                                                                                                                                                                                                                                                                                                                                                                                          |
| Capacity                                  | Up to 24 TB for each HDD (The maximum HDD capacity varies with environment temperature and hard disk size, The environment temperature for use should not exceed 40°C.)                                                                                                                                                                                                                                                   |
| Disk Group                                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                 |                                                    |
|---------------------------------|----------------------------------------------------|
| Redundant Storage               | N/A                                                |
| Disk Array Type                 | N/A                                                |
| Hot Swap                        | N/A                                                |
| <b>External Interface</b>       |                                                    |
| Network Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet Interface |
| Network Working Mode            | Single port, not involved                          |
| USB                             | Rear panel: 2 × USB2.0                             |
| RS485                           | N/A                                                |
| RS232                           | N/A                                                |
| Alarm In                        | 4-ch                                               |
| Alarm Out                       | 1-ch                                               |
| eSATA                           | N/A                                                |
| miniSAS                         | N/A                                                |
| Extension Board                 | N/A                                                |
| Power Output                    | N/A                                                |
| Buzzer                          | Support                                            |
| Power Supply                    | DC 52 V/1.8 A                                      |
| Power Switch                    | N/A                                                |
| Redundant Power Supply          | N/A                                                |
| <b>PoE</b>                      |                                                    |
| PoE Interface                   | 8 RJ45 10 M/100 M self-adaptive Ethernet Interface |
| Max Power                       | Max 30 W for single port, Max 75 W in total        |
| Supported Standard              | IEEE 802.3at, IEEE 802.3af                         |
| <b>Working Environment</b>      |                                                    |
| Working Temperature             | -10 °C to 50 °C (14 °F to 122 °F)                  |
| Working Humidity                | ≤ 95% RH (non-condensing)                          |
| Power Consumption (without HDD) | ≤ 15W                                              |
| Heat Dissipation                | Radiator                                           |
| <b>Dimensions</b>               |                                                    |
| Weight (without HDD)            | ≤ 0.98Kg (2.17lb)                                  |
| Height                          | 1U                                                 |
| Dimensions                      | 260mm x 215mm x 46.6mm (10.2"×8.5"×1.8")           |
| <b>Certification</b>            |                                                    |
| Certification                   | CE; FCC; UL; RoHS; WEEE                            |
| CE                              | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130 |
| FCC                             | Part15 Subpart B                                   |
| <b>Feature Supported</b>        |                                                    |
| Cruise Lines Num of Each Camera | 4                                                  |
| Preset Num                      | 32                                                 |
| N+1 Hot Spare                   | N/A                                                |
| Fisheye Dewarping by IPC        | Support                                            |

|                                  |                     |
|----------------------------------|---------------------|
| Fisheye Dewarping by NVR (Local) | N/A                 |
| Dual-lens Cameras                | Support             |
| Box-Dome Linkage                 | Support             |
| ANR                              | Support             |
| Downlink ONVIF                   | Support (Profile S) |
| Uplink ONVIF                     | N/A                 |
| Video Image Database (Uplink)    | Support             |
| UCS (Web socket)                 | N/A                 |
| NAS                              | N/A                 |
| Ucode Basic Mode                 | Support             |
| Ucode Advanced Mode              | Support             |
| Output Mode                      | Support             |
| Compliance                       |                     |
| NDAA Compliant                   | Support             |
| Others                           |                     |
| Decoding Capability (1080P)      | 10                  |

Dimensions



# Accessories

| RM-1U-260                                                                         |  |  |
|-----------------------------------------------------------------------------------|--|--|
| 1 HDD 1U NVR Rack Mount                                                           |  |  |
|  |  |  |

# Unlimited New View

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