

# Network Video Recorder

## NVR504-E-P-IQ Series



## Features

- Support Ultra 265/H.265/H.264 video formats
- 16/32/64-channel input
- Plug & Play with 16/24 independent PoE network interfaces
- Support mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T ) and RTSP protocols
- Support 2-ch HDMI, 2-ch VGA. HDMI up to 4K (3840x2160) resolution
- VGA and HDMI independent output
- Up to 32 Megapixels resolution recording
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

## Specifications

| Decoding            | Description                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decoding Format     | Ultra 265, H.265, H.264                                                                                                                                                                                                                                                                                                               |
| Decoding Capability | <p>NVR504-16E-P16-IQ:Smart Off: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8 x 4K@30, 10 x 6MP@30, 12 x 5MP@30, 16 x 4MP@30</p> <p>Smart On: 1 x 32MP@30, 3 x 16MP@30, 4 x 12MP@30, 6 x 4K@30, 8 x 6MP@30, 9 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30</p> <p>NVR504-32E-P24-IQ:Smart Off: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8 x 4K@30,</p> |

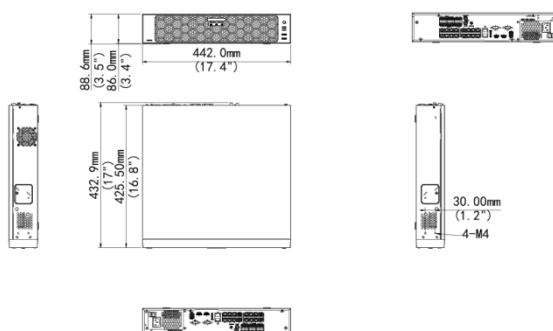
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <p>10 x 6MP@30, 12 x 5MP@30, 16 x 4MP@30, 20 x 3MP@30, 32 x 1080P@30</p> <p>Smart On: 1 x 32MP@30, 3 x 16MP@30, 4 x 12MP@30, 6 x 4K@30, 8 x 6MP@30, 9 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 24 x 1080P@30, 32 x 720P@30</p> <p>NVR504-64E-P24-IQ:Smart Off: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8 x 4K@30, 10 x 6MP@30, 12 x 5MP@30, 16 x 4MP@30, 20 x 3MP@30, 32 x 1080P@30, 64 x 720P@30</p> <p>Smart On: 1 x 32MP@30, 3 x 16MP@30, 4 x 12MP@30, 6 x 4K@30, 8 x 6MP@30, 9 x 5MP@30, 12 x 4MP@30, 16 x 3MP@30, 24 x 1080P@30, 48 x 720P@30, 64 x D1</p> |
| Decoding Capability Description | *. The resolution of each channel cannot exceed 8192 pixels in length or width.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Audio Compression               | G.711A, G.711U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Network                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Incoming Bandwidth              | Smart Off: 384Mbps, Smart On: 200Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Outgoing Bandwidth              | Smart Off: 384Mbps, Smart On: 200Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remote Users                    | 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protocols                       | TCP/IP; P2P; UPnP; NTP; DHCP; PPPoE; HTTP; HTTPS; DNS; DDNS; SNMP; SMTP; NFS; RTSP; 802.1x; IPv6; IPv4                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Browser(Plugin)                 | Windows: IE (IE10/ 11), Firefox (version 52.0 and above), Chrome (version 45 and above), Edge (version 79 and above)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video/Audio Input               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IP Video Input                  | <p>NVR504-16E-P16-IQ:16-ch</p> <p>NVR504-32E-P24-IQ:32-ch</p> <p>NVR504-64E-P24-IQ:64-ch</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RCA Audio Input                 | 1-ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video/Audio Output              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Video Output                    | Support 2-ch HDMI, 2-ch VGA, HDMI1 and VGA1 simultaneous output, HDMI2 and VGA2 simultaneous output, HDMI1/VGA1 and HDMI2/VGA2 independent output                                                                                                                                                                                                                                                                                                                                                                                                         |
| HDMI Output                     | 4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| VGA Output                      | 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RCA Audio Output                | 2-ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Liveview Display                | <p>NVR504-16E-P16-IQ:1/4/6/8/9/16</p> <p>NVR504-32E-P24-IQ:HDMI1 and VGA1: 1/4/6/8/9/16/25/32;<br/>HDMI2 and VGA2: 1/4/6/8/9/16</p> <p>NVR504-64E-P24-IQ:HDMI1 and VGA1: 1/4/6/8/9/16/25/36/64;<br/>HDMI2 and VGA2: 1/4/6/8/9/16</p>                                                                                                                                                                                                                                                                                                                      |

|                              |                                                                                                                                                                                                                                                                                                                                                                              |
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| Corridor Mode Screen         | NVR504-16E-P16-IQ:3/4/5/7/9/10/12/16<br>NVR504-32E-P24-IQ/NVR504-64E-P24-IQ:HDMI1 and VGA1: 3/4/5/7/9/10/12/16/32;<br>HDMI2 and VGA2: 3/4/5/7/9/10/12/16                                                                                                                                                                                                                     |
| Two-way Audio                | Description                                                                                                                                                                                                                                                                                                                                                                  |
| Two-way Audio                | 1-ch, RCA (Using the audio input and output)                                                                                                                                                                                                                                                                                                                                 |
| Snapshot                     | Description                                                                                                                                                                                                                                                                                                                                                                  |
| FTP/Schedule/Event Snapshot  | 16-ch snapshot, up to 4K resolution                                                                                                                                                                                                                                                                                                                                          |
| Recording                    | Description                                                                                                                                                                                                                                                                                                                                                                  |
| Recording Resolution         | 32MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF                                                                                                                                                                                                                                                                                                               |
| Smart                        | Description                                                                                                                                                                                                                                                                                                                                                                  |
| VCA Detection by IPC         | Face Detection; face detection; Vehicle Detection; SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area); Ultra Motion Detection (UMD); Temperature Detection (Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection); People Counting (People Flow Counting, Crowd Density Monitoring); Video Metadata; Traffic Monitoring |
| Smart by NVR                 | Face Detection; face detection; Smart Intrusion Prevention (SIP); Ultra Motion Detection (UMD); (At same channel, only one smart function by NVR can be enabled simultaneously)                                                                                                                                                                                              |
| VCA Search                   | Motor Vehicle Search; Non-Motor Vehicle Search; Human Body Search; General Search; People Counting Report; Heat Map; SmartSearch+; AcuSearch                                                                                                                                                                                                                                 |
| Smart by IPC                 | All channels (up to 16 images/s in total) Face Detection, face detection, Vehicle Detection, Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring                                                                                                                                                                                                             |
| Vehicle Picture Library      | Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total                                                                                                                                                                                                                                                                                               |
| SIP by NVR                   | 8-ch                                                                                                                                                                                                                                                                                                                                                                         |
| UMD by NVR                   | 16-ch                                                                                                                                                                                                                                                                                                                                                                        |
| Capacity of Snapshot Records | 3 millions records for face snapshot; 2 millions records for vehicle snapshot; 2 millions records for SIP                                                                                                                                                                                                                                                                    |
| Alarm                        | Description                                                                                                                                                                                                                                                                                                                                                                  |
| 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; Array Damaged; Array Degraded                                                                                                                                                                                              |
| GUI Language                 | Description                                                                                                                                                                                                                                                                                                                                                                  |

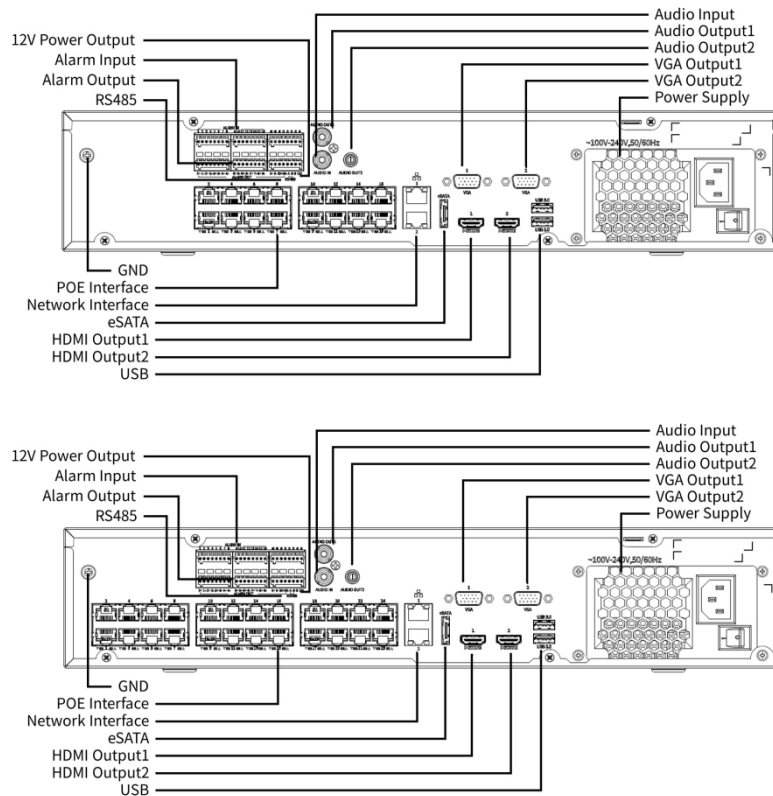
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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           | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
| SATA                | 4 SATA Interfaces                                                                                                                                                                                                                                                                                                                                                                                                         |
| Capacity            | Up to 16TB for each HDD(The maximum HDD capacity varies with environment temperature and hard disk size)                                                                                                                                                                                                                                                                                                                  |
| Disk Group          | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Redundant Storage   | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Disk Array Type     | RAID 0, 1, 5                                                                                                                                                                                                                                                                                                                                                                                                              |
| External Interface  | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
| Network Interface   | 2 RJ45 10M/100M/1000M self-adaptive Ethernet Interface                                                                                                                                                                                                                                                                                                                                                                    |
| USB                 | Front panel: 2 x USB2.0; Rear panel: 2 x USB3.0                                                                                                                                                                                                                                                                                                                                                                           |
| RS485               | 1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RS232               | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Alarm In            | 16-ch                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alarm Out           | 10-ch                                                                                                                                                                                                                                                                                                                                                                                                                     |
| eSATA               | 1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power Output        | 12V                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power Supply        | AC 100 ~ 240 V                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power Switch        | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PoE                 | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
| PoE Interface       | NVR504-16E-P16-IQ:16 RJ45 10M/100M self-adaptive Ethernet Interface<br>NVR504-32E-P24-IQ/NVR504-64E-P24-IQ:24 RJ45 10M/100M self-adaptive Ethernet Interface                                                                                                                                                                                                                                                              |
| Max Power           | NVR504-16E-P16-IQ:Max 30W for single port, Max 150W in total<br>NVR504-32E-P24-IQ/NVR504-64E-P24-IQ:Max 30W for single port, Max 210W in total                                                                                                                                                                                                                                                                            |
| Supported Standard  | IEEE 802.3at, IEEE 802.3af                                                                                                                                                                                                                                                                                                                                                                                                |
| Working Environment | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
| Working Temperature | -10 °C ~ 55 °C (14 °F ~ 131 °F)                                                                                                                                                                                                                                                                                                                                                                                           |
| Working Humidity    | ≤ 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Power Consumption (without HD D) | ≤50W                                               |
| Dimensions                       | Description                                        |
| Weight (without HDD)             | ≤5.5KG                                             |
| Height                           | 2U                                                 |
| Dimensions                       | 442mm × 432.9mm × 88.6mm (17.4" × 17" × 3.5" )     |
| Certification                    | Description                                        |
| Certification                    | CE; FCC; UL; RoHS; WEEE                            |
| CE                               | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035 |
| FCC                              | Part15 Subpart B                                   |

## Dimensions



## Rear Panel



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