

## Network Video Recorder NVR502-E-IM-G Series



## Features

- Support Ultra H.265/H.265/H.264 video formats
- Support 16/32-channel input
- Support 1-ch HDMI, 1-ch VGA, HDMI and VGA simultaneous output
- Support 32 Megapixels resolution recording
- Support ANR technology to enhance the storage reliability when the network is disconnected
- Support SeekFree function: up to 16-ch with 3rd party IPC, up to 32-ch with UNV SIP/UMD IPC
- Support external USB keyboards
- Support SIP, Video Metadata, LPR , Face Detection and face detection by NVR
- Support cloud upgrade

# Specifications

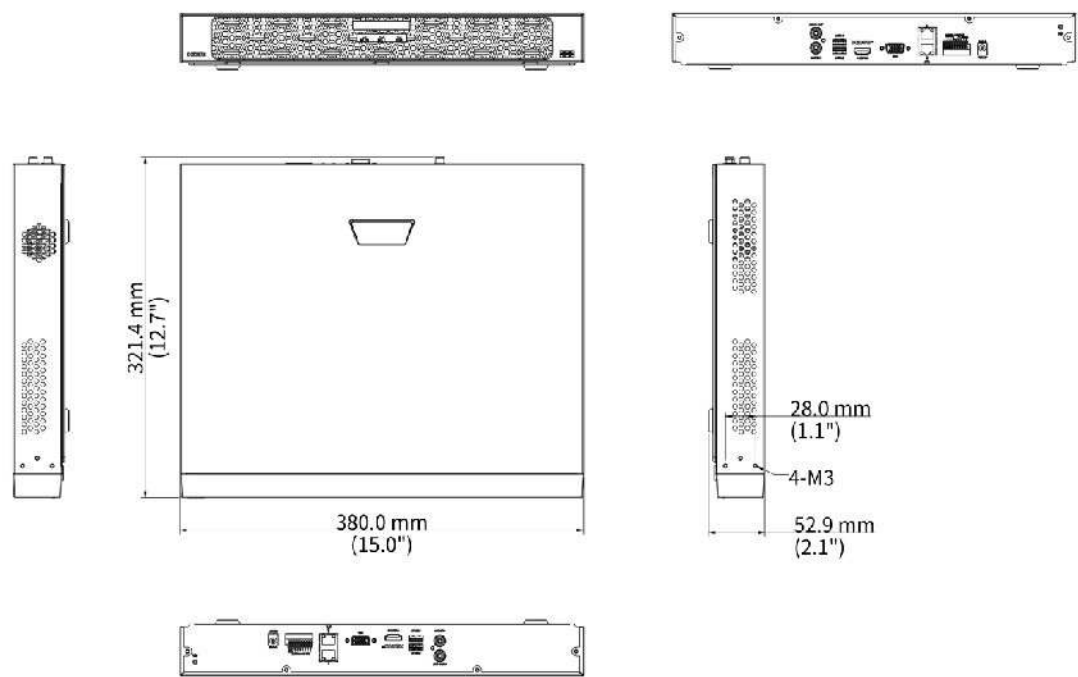
| Model                           | NVR502-16E-IM-G                                                                                                                                                                                                                                                                       |                       | NVR502-32E-IM-G |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|
| Decoding                        |                                                                                                                                                                                                                                                                                       |                       |                 |
| Decoding Format                 | Ultra 265, H.265, H.264                                                                                                                                                                                                                                                               |                       |                 |
| Decoding Capability             | Smart Off:<br>H265/H264: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8x 4K@30, 10x 6MP@30, 12x 5MP@30, 16 x 4MP@30, 16 x 3MP@30, 16 x 1080P@30<br>Smart On:<br>H265/H264: 1 x 32MP@30, 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 5 x 6MP@30, 6 x 5MP@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30 |                       |                 |
| Decoding Capability Description | The resolution of each channel cannot exceed 8192 pixels in length or width                                                                                                                                                                                                           |                       |                 |
| Audio Compression               | G.711A, G.711U                                                                                                                                                                                                                                                                        |                       |                 |
| Network                         |                                                                                                                                                                                                                                                                                       |                       |                 |
| Incoming Bandwidth              | 192 Mbps                                                                                                                                                                                                                                                                              |                       |                 |
| Outgoing Bandwidth              | 192 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                  | 16-ch                                                                                                                                                                                                                                                                                 | 32-ch                 |                 |
| BNC Audio Input                 | N/A                                                                                                                                                                                                                                                                                   |                       |                 |
| RCA Audio Input                 | 1-ch                                                                                                                                                                                                                                                                                  |                       |                 |
| 3.5mm Audio Input               | N/A                                                                                                                                                                                                                                                                                   |                       |                 |
| 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, 1280 × 720/60 Hz                                                                                                                                                                                                                                                   |                       |                 |
| HDMI Standard                   | HDMI1.4                                                                                                                                                                                                                                                                               |                       |                 |
| BNC Audio Output                | N/A                                                                                                                                                                                                                                                                                   |                       |                 |
| RCA Audio Output                | 1-ch                                                                                                                                                                                                                                                                                  |                       |                 |
| Liveview Display                | 1/4/6/8/9/16                                                                                                                                                                                                                                                                          | 1/4/6/8/9/16/25/32    |                 |
| 3.5mm Audio Output              | N/A                                                                                                                                                                                                                                                                                   |                       |                 |
| Default Num of Live Screen      | 16                                                                                                                                                                                                                                                                                    | 32                    |                 |
| Corridor Mode Screen            | 3/4/5/7/9/10/12/16                                                                                                                                                                                                                                                                    | 3/4/5/7/9/10/12/16/32 |                 |
| Playback Screen                 | 1/4/9/16                                                                                                                                                                                                                                                                              |                       |                 |

|                                           |                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Corridor Mode Screen of Playback          | 1/3                                                                                                                                                                                                                   |
| Two-way Audio                             |                                                                                                                                                                                                                       |
| Two-way Audio                             | 1-ch, RCA (Using the audio input and output)                                                                                                                                                                          |
| Snapshot                                  |                                                                                                                                                                                                                       |
| FTP/Schedule/Event Snapshot               | 16-ch snapshot (max. 8 MP (3840 × 2160) video resolution, with 1080P snapshot resolution)                                                                                                                             |
| Recording                                 |                                                                                                                                                                                                                       |
| Recording Resolution                      | 32 MP/16 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF                                                                                                                                                |
| Num of Concurrent Playback                | 32-ch                                                                                                                                                                                                                 |
| Synchronous Playback in Local             | 16-ch                                                                                                                                                                                                                 |
| Smart Function                            |                                                                                                                                                                                                                       |
| Smart by IPC                              | All channels (up to 16 images/s in total) Face Detection, Face Comparison, Vehicle Detection (LPR), Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring, People Counting                              |
| Smart by NVR                              | Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Video Metadata, Plate Comparison                                                                                                                   |
| Smart by NVR Analyzer Mode                | Single Mode (SIP), Mixed Mode (Face Recognition+Mixed-Traffic Detection+AcuSearch/AcuTrack), Modes cannot active simultaneously, only one mode can active at a time.                                                  |
| VCA Search                                | Face Snapshot Search, Face Comparison Search, Behavior Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, SmartSearch+, AcuSearch, AcuTrack, SeekFree |
| AcuSearch                                 |                                                                                                                                                                                                                       |
| Acu Search Performance                    | All channels with UNV SIP/UMD Camera, Up to 16-ch with normal camera (UNV and Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)                                                                                         |
| SeekFree                                  |                                                                                                                                                                                                                       |
| SeekFree Performance                      | All channels with UNV SIP/UMD Camera, Up to 16-ch with normal camera (UNV and Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)                                                                                         |
| SeekFree Language                         | English                                                                                                                                                                                                               |
| Face detection                            |                                                                                                                                                                                                                       |
| face detection by NVR                     | All channels with UNV Face Detection Camera, Up to 16-ch with normal camera (UNV and Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)                                                                                  |
| Search by Image                           | Support                                                                                                                                                                                                               |
| SIP                                       |                                                                                                                                                                                                                       |
| SIP by NVR with normal cameras            | Up to 16-ch with normal camera (UNV and Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)                                                                                                                               |
| Plate Comparison                          |                                                                                                                                                                                                                       |
| Vehicle Number Library                    | Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total                                                                                                                                        |
| Video Metadata                            |                                                                                                                                                                                                                       |
| Video Metadata by NVR with normal cameras | Up to 16-ch with normal camera (UNV and Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)                                                                                                                               |
| Video Metadata Type                       | Motor Vehicle: Vehicle Type, Vehicle Color, Vehicle Brand, Direction, Plate Type, Plate Color, Non-Motor Vehicle: Non-Motor Vehicle Type, Direction, Gender, Age, Upper Garment Length,                               |

|                                 |                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | Upper Garment Color, Human Body: Gender, Age, Mask, Hairstyle, Bag Style, Direction, Upper Garment Length, Lower Garment Length, Upper Garment Color, Lower Garment Color                 |
| Capacity of Smart Snapshots     |                                                                                                                                                                                           |
| Capacity of Snapshot Records    | 2 millions records for face snapshot, 2 millions records for vehicle snapshot, 2 millions 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, Array Damaged, Array Degraded           |
| Hard Disk                       |                                                                                                                                                                                           |
| SATA                            | 2 SATA Interfaces                                                                                                                                                                         |
| 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                      | Support                                                                                                                                                                                   |
| Redundant Storage               | Support                                                                                                                                                                                   |
| Disk Array Type                 | RAID 1                                                                                                                                                                                    |
| Hot Swap                        | N/A                                                                                                                                                                                       |
| External Interface              |                                                                                                                                                                                           |
| Network Interface               | 2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface                                                                                                                                 |
| Network Working Mode            | Muli-access, load balance, network fault-tolerance                                                                                                                                        |
| USB                             | Front panel: 1 × USB2.0, Rear panel: 1 × USB2.0, 1 × USB3.0                                                                                                                               |
| RS485                           | 1                                                                                                                                                                                         |
| RS232                           | N/A                                                                                                                                                                                       |
| Alarm In                        | 4-ch                                                                                                                                                                                      |
| Alarm Out                       | 1-ch                                                                                                                                                                                      |
| eSATA                           | N/A                                                                                                                                                                                       |
| miniSAS                         | N/A                                                                                                                                                                                       |
| Power Output                    | N/A                                                                                                                                                                                       |
| Extension Board                 | N/A                                                                                                                                                                                       |
| Buzzer                          | Support                                                                                                                                                                                   |
| Power Supply                    | DC 12 V/3 A                                                                                                                                                                               |
| Power Switch                    | N/A                                                                                                                                                                                       |
| Redundant Power Supply          | N/A                                                                                                                                                                                       |
| PoE                             |                                                                                                                                                                                           |
| PoE Interface                   | N/A                                                                                                                                                                                       |
| Max Power                       | N/A                                                                                                                                                                                       |
| Supported Standard              | N/A                                                                                                                                                                                       |
| Working Environment             |                                                                                                                                                                                           |
| Working Temperature             | -10 °C to 55 °C (14 °F to 131 °F)                                                                                                                                                         |
| Working Humidity                | ≤ 90% RH (non-condensing)                                                                                                                                                                 |
| Power Consumption (without HDD) | ≤25W                                                                                                                                                                                      |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat Dissipation                 | Fan, Radiator                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dimensions                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Weight (without HDD)             | 1.87 KG                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Height                           | 1U                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions                       | 380mm × 322.4mm × 53mm (15.0" × 12.7" × 2.1" )                                                                                                                                                                                                                                                                                                                                                                            |
| 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 |
| Certification                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Certification                    | CE; FCC; UL; RoHS; WEEE                                                                                                                                                                                                                                                                                                                                                                                                   |
| CE                               | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130                                                                                                                                                                                                                                                                                                                                                                        |
| FCC                              | Part15 Subpart B                                                                                                                                                                                                                                                                                                                                                                                                          |
| Feature Supported                |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ANR                              | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dual-lens Cameras                | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Downlink ONVIF                   | Support (Profile S)                                                                                                                                                                                                                                                                                                                                                                                                       |
| Box-Dome Linkage                 | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Uplink ONVIF                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Video Image Database (Uplink)    | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UCS (Web socket)                 | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NAS                              | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ucode Basic Mode                 | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ucode Advanced Mode              | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Output Mode                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Compliance                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NDAA Compliant                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Others                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Decoding Capability (1080P)      | 16                                                                                                                                                                                                                                                                                                                                                                                                                        |

Dimensions



Accessories

| RM-1U-380                                                                           |  |  |
|-------------------------------------------------------------------------------------|--|--|
| 2 HDD 1U NVR Rack Mount                                                             |  |  |
|  |  |  |

# Unlimited New View

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