

## 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 by NVR
- Support cloud upgrade

# Specifications

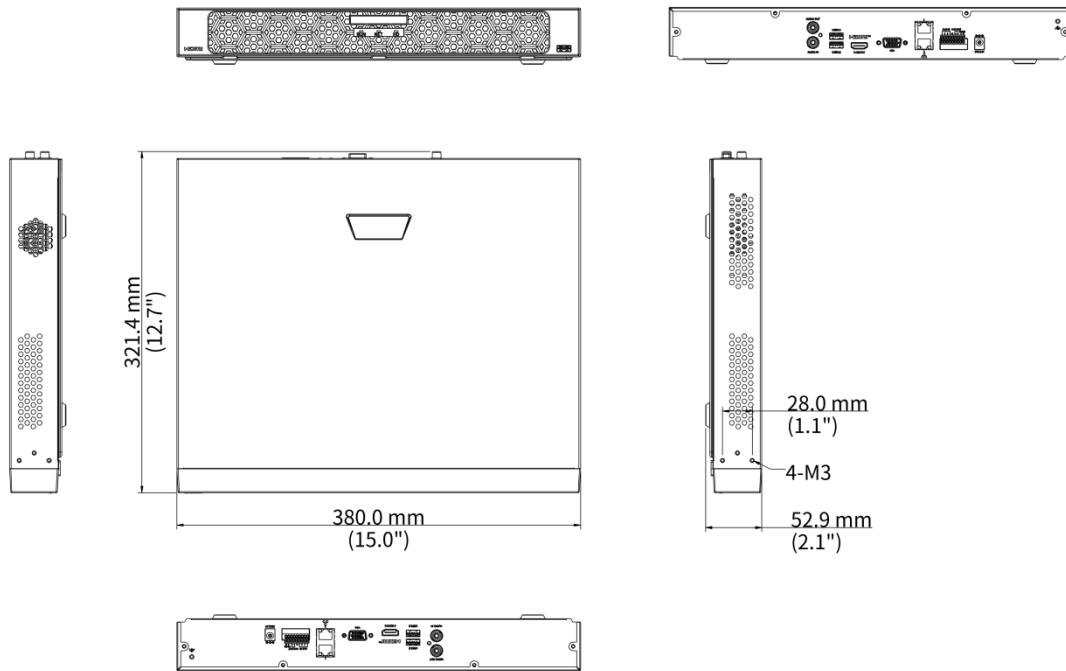
Model	NVR502-16E-IM-G	NVR502-32E-IM-G
Decoding		
Decoding Format	Ultra 265, H.265, H.264	
Decoding Capability	Smart Off: H265: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8x 4K@30, 10x 6MP@30, 12x 5MP@30, 16 x 4MP@30, 16 x 3MP@30, 16 x 1080P@30 H264: 2 x 32MP@30, 4 x 16MP@30, 5 x 12MP@30, 8x 4K@30, 10x 6MP@30, 12x 5MP@30, 16 x 4MP@30, 16 x 3MP@30, 16 x 1080P@30 Smart On: When Smart by NVR on, 16 x 1080P@30 decoding capacity will be consumed.	H265: 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, 21 x 3MP@30, 32 x 1080P@30 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, 21 x 3MP@30, 32 x 1080P@30 Smart On: When Smart by NVR on, 16 x 1080P@30 decoding capacity will be consumed.
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	
Remote Users	128	
Protocols	TCP/IP, P2P, SMTP, RTSP, UPnP, NTP, DHCP, PPPoE, HTTP, DNS, DDNS, IPv6, IPv4, HTTPS	
Browser (Plugin)	IE10, IE11, 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	N/A	
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, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
VGA Output	1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 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
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
3.5mm Audio Output	N/A	
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		
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	
Smart by NVR	Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Video Metadata, Plate Comparison, Illegally Parked Motor Vehicle	
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	AcuSearch, SmartSearch+, Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report	
AcuSearch	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	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	
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 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 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 by NVR	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	
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total	
Capacity of Snapshot Records	2 millions records for face snapshot 2 millions records for SIP 2 millions records for vehicle snapshot	2 millions records for face snapshot 2 millions records for vehicle snapshot 2 millions records for SIP
<b>Alarm</b>		
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	
<b>Hard Disk</b>		
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	N/A
Hot Swap	N/A	
<b>External Interface</b>		
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	
<b>PoE</b>		
PoE Interface	N/A	
Max Power	N/A	
Supported Standard	N/A	
<b>Working Environment</b>		
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Working Humidity	≤ 90% RH (non-condensing)	
Power Consumption (without	≤25W	

HDD)		
Heat Dissipation	Fan, Radiator	
Dimensions		
Weight (without HDD)	1.87 KG	
Height	1U	
Dimensions	380mm × 322.4mm × 53mm (15.0" × 12.7" × 2.1" )	380mm × 322.4mm × 53mm (15.0" × 12.7" × 2.1" )
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	
Compliance		
NDAA Compliant	Support	
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	
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)	Support	
NAS	Support	
Ucode Basic Mode	Support	
Ucode Advanced Mode	Support	
Output Mode	N/A	
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	
Others		
Decoding Capability (1080P)	16	32

## Dimensions



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