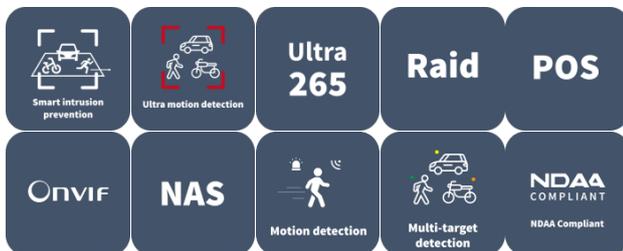


# Network Video Recorder NVR509-E-IM Series



## Features

- Support Ultra 265/H.265/H.264 video formats
- Support 16/32/64-channel input
- Support 2 HDMI and 2 VGA. VGA1 and HDMI1 simultaneous output, VGA2 and HDMI2 simultaneous output. VGA1/HDMI1 and VGA2/HDMI2 independent output
- Support up to 32 Megapixels resolution recording
- Support N+1 Hot spare
- Support ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

# Specifications

Model	NVR509-16E-IM	NVR509-32E-IM	NVR509-64E-IM
<b>Decoding</b>			
Decoding Format	Ultra 265, H.265, H.264		
Decoding Capability	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 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	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 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	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 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
Decoding Capability Description	The resolution of each channel cannot exceed 8192 pixels in length or width		
Audio Compression	G.711A, G.711U		
<b>Network</b>			
Incoming Bandwidth	Smart Off: 384 Mbps, Smart On: 200 Mbps		
Outgoing Bandwidth	Smart Off: 384 Mbps, Smart On: 200 Mbps		
Max Users Can Be Added	128		
Remote Users	128		
Maximum Number of Clients	/		
Maximum Number of Simultaneous Forwarding Streamings	/		
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPv6, IPv4		
Browser (Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+		
Browser (Plugin-Free)	Chrome 57+, Edge 16+, Firefox 58+, Safari 11+		
<b>Video/Audio Input</b>			
IP Video Input	16-ch	32-ch	64-ch
BNC Audio Input	N/A		
RCA Audio Input	1-ch		
3.5mm Audio Input	N/A		
<b>Peripheral Input</b>			
POS	All channels		
<b>Video/Audio Output</b>			
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		

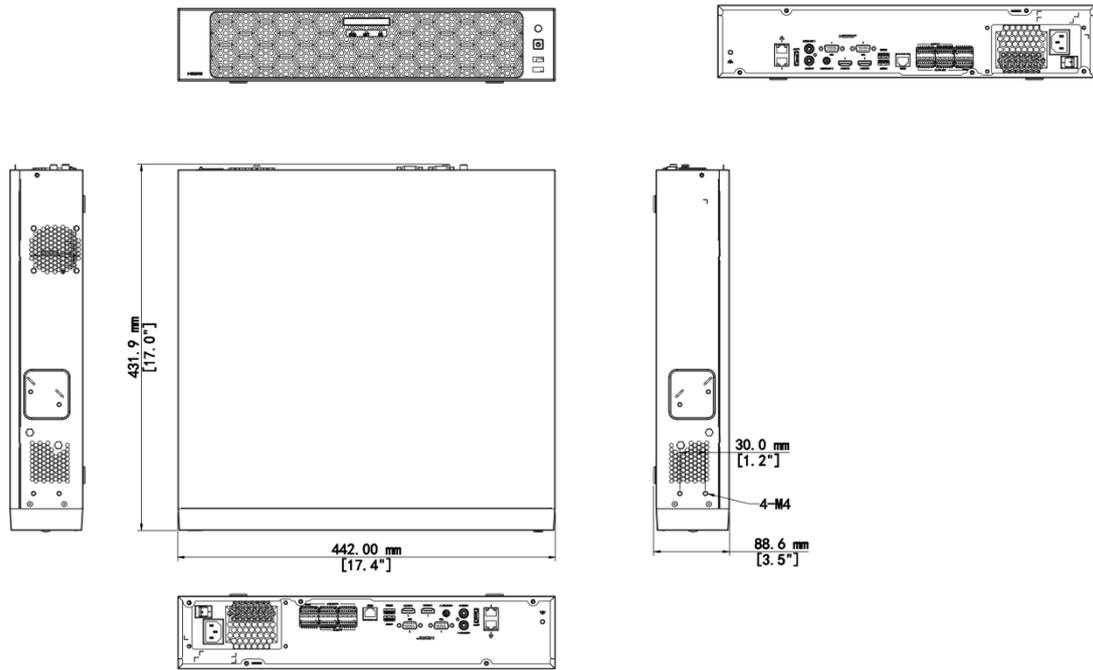
HDMI Output	4K (3840 × 2160)/60 Hz, 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz		
VGA Output	1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz		
HDMI Standard	HDMI2.0		
BNC Audio Output	N/A		
RCA Audio Output	2-ch		
Liveview Display	1/4/6/8/9/16	HDMI1 and VGA1: 1/4/6/8/9/16/25/32; HDMI2 and VGA2: 1/4/6/8/9/16	HDMI1 and VGA1: 1/4/6/8/9/16/25/36/64; HDMI2 and VGA2: 1/4/6/8/9/16
Default Num of Live Screen	16	HDMI1 and VGA1: 32; HDMI2 and VGA2: 16	HDMI1 and VGA1: 64; HDMI2 and VGA2: 16
Corridor Mode Screen	3/4/5/7/9/10/12/16	HDMI1 and VGA1: 3/4/5/7/9/10/12/16/32; HDMI2 and VGA2: 3/4/5/7/9/10/12/16	HDMI1 and VGA1: 3/4/5/7/9/10/12/16/32; HDMI2 and VGA2: 3/4/5/7/9/10/12/16
3.5mm Audio Output	N/A		
Playback Screen	1/4/9/16		
Corridor Mode Screen of Playback	1/3		
<b>Two-way Audio</b>			
Two-way Audio	1-ch, RCA (Using the audio input and output)		
<b>Snapshot</b>			
FTP/Schedule/Event Snapshot	16-ch snapshot (max. 8 MP (3840 × 2160) video resolution, with 1080P snapshot resolution)		
<b>Recording</b>			
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		
<b>Smart</b>			
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), Ultra Motion Detection (UMD), Video Metadata, (At same channel, only one smart function by NVR can be enabled simultaneously.)		
Smart by NVR Analyzer Mode	Mixed Mode (SIP+UMD), 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, Heat Map		
AcuSearch	All channels with UNV SIP/UMD Camera Up to 16-ch with normal camera (UNV and	All channels with UNV SIP/UMD Camera Up to 32-ch with normal camera (UNV and	All channels with UNV SIP/UMD Camera Up to 32-ch with normal camera (UNV and

	Third-part brand, 16-ch 2MP, 8-ch 4MP, 4-ch 4K)	Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)	Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)
AcuTrack	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)	All channels with UNV SIP/UMD Camera Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)	All channels with UNV SIP/UMD Camera Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)
by NVR	Up to 16-ch with UNV Face Detection Camera Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-ch 4K)	Up to 32-ch with UNV Face Detection Camera Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-ch 4K)	Up to 32-ch with UNV Face Detection Camera Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-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)	Up to 24-ch with normal camera (UNV and Third-part brand, 24-ch 2MP, 12-ch 4MP, 6-ch 4K)	Up to 24-ch with normal camera (UNV and Third-part brand, 24-ch 2MP, 12-ch 4MP, 6-ch 4K)
UMD 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)	Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)	Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)
Video Metadata by NVR with normal cameras	Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-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	3 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		
Num of Concurrent Processing Alarms	One every 5 seconds		
<b>Hard Disk</b>			
SATA	9 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 0, 1, 5, 6, 10
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	Multi-access, load balance, network fault-tolerance
USB	Front panel: 2 × USB2.0, Rear panel: 2 × USB3.0
RS485	1
RS232	1
Alarm In	16-ch
Alarm Out	10-ch
eSATA	1
miniSAS	N/A
Power Output	12 V
Extension Board	N/A
Buzzer	Support
Power Supply	AC 100 to 240 V
Power Switch	Support
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 HDD)	≤ 40W
Heat Dissipation	Fan, Radiator
<b>Dimensions</b>	
Weight (without HDD)	≤5.5KG
Height	2U
Dimensions	442mm × 400mm × 86.1mm (17.4" ×15.7" ×3.4" )
<b>Certification</b>	
Certification	CE; FCC; UL; RoHS; WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part15 Subpart B
<b>Compliance</b>	
NDAA Compliant	Support
<b>Feature Supported</b>	
Cruise Lines Num of Each Camera	4
Preset Num	32
N+1 Hot Spare	Support

Fisheye Dewarping by IPC	Support
Fisheye Dewarping by NVR (Local)	Support (1 × 12 MP)
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	Support
<b>GUI Language</b>	
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
<b>Others</b>	
Decoding Capability (1080P)	32

# Dimensions



## Zhejiang Uniview Technologies Co., Ltd.

- <http://www.uniview.com>
- [overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)
- No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China



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