## Network Video Recorder

## NVR3216-P16-V2



## **Key Features**

- Support Ultra265/H.265/H.264 video formats
- 16-channel input
- Plug & Play with 16 independent PoE network interfaces
- Support mainstream cameras of ONVIF conformance(Profile S, Profile G, Profile T) and RTSP protocols
- Support HDMI and VGA simultaneous output
- Up to 8 Megapixels resolution recording
- 2 SATA HDDs, up to 10TB for each HDD
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

## **Specifications**

Model	NVR3216-P16-V2
Video/Audio Input	
IP Video Input	16-ch
Two-way Audio Input	1-ch, RCA
Network	

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Incoming Bandwidth         160Mbps           Outgoing Bandwidth         64Mbps           Remote Users         128           Protocols         TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP           Browser         IE(IE10/11) for Windows           Firefox (version 52.0 and above) for Windows           Video/Audio Output         Firefox (version 45 and above) for Windows           Video/Audio Output         HDMI:4K (3840x2160@30), 1920X1080@60, 1920X1080@50, 1600X1200@60, 1280X120Q660, 1280X720@60, 1024X768@60           Recording Resolution         8MP/6MP/SMP/1080p/960p/720p/D1/2CIF/CIF           Audio Output         1-ch, RCA           Audio Compression         6.711A, G.711U           Synchronous Playback         16-ch           Liveview display         1/4/6/8/9/16           Corridor Mode Screen         3/4/57/9/10/12/16           Snapshot         ** Ch snapshot, up to D1 resolution           Pecceding         4 ch snapshot, up to D1 resolution           Pecceding format         Ultra265/H.265/H.264           Live view/Playback         8MP/6MP/5MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Capability         2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30           Hard         Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)			
Remote Users         128           Protocols         TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP           Browser         IE(IE10/11) for Windows           Edge(version 52.0 and above) for Windows           Video/Audio Output           HDMI/VGA Output         HDMI-4K (3840×2160@30), 1920×1080@60, 1920×1080@50, 1600×1200@60, 1280×720@60, 1024×768@60           Recording Resolution         8MP/6MP/SMP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Audio Output         1-ch, RCA           Audio Compression         G.711A, G.711U           Synchronous Playback         16-ch           Liveview display         1/4/6/8/9/16           Snapshot         4-ch snapshot, up to D1 resolution           PFTP/Schedule/Event Snapshot         4-ch snapshot, up to D1 resolution           Decoding         10 ttra265/H.265/H.264           Live view/Playback         8MP/6MP/SMP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Capability         2 x 4&@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30           Hard Disk           SATA         2 SATA interfaces           Capacity         Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)           Smart         Intrusion Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Incoming Bandwidth	160Mbps	
Protocols  TCP/IP, P2P, UPnP, NTP, DHCP, PPPOE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP  IE(IEIO/11) for Windows  Firefox (version 52.0 and above) for Windows  Chrome(version 45 and above) for Windows  Edge(version 79 and above) for Windows  Video/Audio Output  HDMI/VGA Output  HCA: 1280X1024@60, 1280X720@60, 1024X768@60  VGA: 1920X1080@60, 1920X1080@50, 1280X1024@60, 1280X720@60, 1024X768@60  Recording Resolution  8MP/6MP/SMP/4MP/3MP/1080p/960p/720p/01/2CIF/CIF  Audio Output  1-ch, RCA  Audio Compression  G.711A, G.711U  Synchronous Playback  16-ch  Liveview display  1/4/6/8/9/16  Corridor Mode Screen  3/4/5/7/9/10/12/16  Snapshot  FTP/Schedule/Event Snapshot  4-ch snapshot, up to D1 resolution  Decoding  Decoding  Decoding format  Ultra265/H.265/H.264  Live view/Playback  8MP/6MP/SMP/4MP/3MP/1080p/960p/720p/01/2CIF/CIF  Capability  2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA  2 SATA 10 TOTB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera  Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Outgoing Bandwidth	64Mbps	
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Browser         Firefox (version 52.0 and above) for Windows           Chrome(version 45 and above) for Windows           Video/Audio Output           HDMI/VGA Output           HDMI/VGA Output           HDMI/VGA Output           HDMI/VGA Output           MPSWID20X1080@60, 1920X1080@60, 1920X1080@50, 160X1200@60, 1024X768@60           Recording Resolution           AMP/6MP/SMP/AMP/3MP/1080p/950p/720p/D1/2CIF/CIF           Audio Output           1-ch, RCA           Audio Compression           G.711A, G.711U           Synchronous Playback           1-ch           Corridor Mode Screen         3/4/5/8/9/16           Corridor Mode Screen         3/4/5/7/9/10/12/16           Snapshot           FTP/Schedule/Event Snapshot         4-ch snapshot, up to D1 resolution           Decoding           Decoding           Decoding format         Ultra265/H.265/H.265/H.264           Live view/Playback         8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Capability         2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30	Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP	
### Browser   Chrome(version 45 and above) for Windows	Browser	IE(IE10/11) for Windows	
Chrome(version 45 and above) for Windows		Firefox (version 52.0 and above) for Windows	
Video/Audio Output           HDMI/VGA Output         HDMI/4K (3840x2160@30), 1920X1080@60, 1920X1080@50, 1600X1200@60, 1280X720@60, 1024X768@60           Recording Resolution         8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Audio Output         1-ch, RCA           Audio Compression         G.711A, G.711U           Synchronous Playback         16-ch           Liveview display         1/4/6/8/9/16           Corridor Mode Screen         3/4/5/7/9/10/12/16           Snapshot         4-ch snapshot, up to D1 resolution           Decoding         Ultra265/H.265/H.264           Live view/Playback         8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Capability         2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30           Hard Disk         2 SATA interfaces           Capacity         Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)           Smart         Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion		Chrome(version 45 and above) for Windows	
HDMI/VGA Output		Edge(version 79 and above) for Windows	
HDMI/VGA Output         1280X1024@60, 1280X720@60, 1024X768@60           Recording Resolution         8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Audio Output         1-ch, RCA           Audio Compression         6.711A, G.711U           Synchronous Playback         16-ch           Liveview display         1/4/6/8/9/16           Corridor Mode Screen         3/4/5/7/9/10/12/16           Snapshot           FTP/Schedule/Event Snapshot         4-ch snapshot, up to D1 resolution           Decoding           Decoding format         Ultra265/H.265/H.264           Live view/Playback         8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF           Capability         2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30           Hard Disk           SATA         2 SATA interfaces           Capacity         Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)           Smart           Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Video/Audio Output		
VGA:1920X1080@60, 1920X1080@50, 1280X1024@60, 1280X720@60, 1024X768@60	HDMI/VGA Output		
Audio Output 1-ch, RCA Audio Compression G.711A, G.711U  Synchronous Playback 16-ch Liveview display 1/4/6/8/9/16 Corridor Mode Screen 3/4/5/7/9/10/12/16  Snapshot  FTP/Schedule/Event Snapshot 4-ch snapshot, up to D1 resolution  Decoding  Decoding format Ultra265/H.265/H.264 Live view/Playback 8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF Capability 2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA 2 SATA interfaces Capacity Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera  Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion		VGA:1920X1080@60, 1920X1080@50, 1280X1024@60, 1280X720@60, 1024X768@60	
Audio Compression G.711A, G.711U  Synchronous Playback 16-ch  Liveview display 1/4/6/8/9/16  Corridor Mode Screen 3/4/5/7/9/10/12/16  Snapshot  FTP/Schedule/Event Snapshot 4-ch snapshot, up to D1 resolution  Decoding  Decoding format Ultra265/H.265/H.264  Live view/Playback 8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability 2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA 2 SATA interfaces  Capacity Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Recording Resolution	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF	
Synchronous Playback 16-ch  Liveview display 1/4/6/8/9/16  Corridor Mode Screen 3/4/5/7/9/10/12/16  Snapshot  FTP/Schedule/Event Snapshot 4-ch snapshot, up to D1 resolution  Decoding  Decoding format Ultra265/H.265/H.264  Live view/Playback 8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability 2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA 2 SATA interfaces  Capacity Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Audio Output	1-ch, RCA	
Liveview display 1/4/6/8/9/16  Corridor Mode Screen 3/4/5/7/9/10/12/16  Snapshot  FTP/Schedule/Event Snapshot 4-ch snapshot, up to D1 resolution  Decoding  Decoding format Ultra265/H.265/H.264  Live view/Playback 8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability 2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA 2 SATA interfaces  Capacity Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Audio Compression	G.711A, G.711U	
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Snapshot  FTP/Schedule/Event Snapshot	Liveview display	1/4/6/8/9/16	
FTP/Schedule/Event Snapshot 4-ch snapshot, up to D1 resolution  Decoding  Decoding format Ultra265/H.265/H.264  Live view/Playback 8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability 2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA 2 SATA interfaces  Capacity Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Corridor Mode Screen	3/4/5/7/9/10/12/16	
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Decoding format  Live view/Playback  8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability  2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA  2 SATA interfaces  Capacity  Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera  Ultra265/H.264  8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Interfaces  Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Change Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	FTP/Schedule/Event Snapshot	4-ch snapshot, up to D1 resolution	
Live view/Playback  8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF  Capability  2 x 4K@30, 4x 4MP@30, 5 x 3MP@30, 8 x 1080P@30, 16 x 720P@30  Hard Disk  SATA  2 SATA interfaces  Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  VCA Detection by Camera  Note that the same of the same	Decoding		
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Hard Disk  SATA  2 SATA interfaces  Up to 10TB for each disk (The maximum HDD capacity varies with environment temperature)  Smart  Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Live view/Playback	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF	
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Capacity  (The maximum HDD capacity varies with environment temperature)  Smart  Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene  VCA Detection by Camera  Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	SATA	2 SATA interfaces	
VCA Detection by Camera  Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Capacity		
VCA Detection by Camera  Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	Smart		
	VCA Detection by Camera	Change Detection, Object Left Behind, Object Removed, Auto Tracking, Ultra Motion	

VCA Search	Behavior search	
People counting	People Flow Counting, Crowd Density Monitoring	
Smart Intrusion Prevention (SIP), UMD by Camera	Total 8-ch	
General Alarm		
General Alarm	Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection	
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline , Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal	
External Interface		
Network Interface	1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface	
USB Interface	Front panel: 1 x USB2.0, Rear panel: 1 x USB2.0	
Alarm In	4-ch	
Alarm Out	1-ch	
PoE		
Interface	16 RJ-45 10M/100M self-adaptive Ethernet Interface	
	Max 30W for single port	
Max Power	Max 240W in total	
Supported Standard	IEEE 802.3af/at	
General		
Power Supply	100 ~ 240 V AC  Power Consumption: ≤10 W( without HDD )	
Working Environment	-10°C ~ + 55°C ( +14°F ~ +131°F ), Humidity ≤ 90% RH(non-condensing)	
Dimensions(W×D×H)	380mm ×315mm × 53mm (14.9" × 12.4" ×2.1")	
Weight ( without HDD )	≤2.6kg (5.29lb)	