

# 4K H.265 PoE NVR 7000 Series

4K+H.265



DATASHEET

4K	H.265 HEVC	Onvif S&T	Plug&Play	Multi-video Output	Transcoding	RAID
ANPR	VCA	Online Upgrade	P2P	HTML5	ANR	Face Detection

## KEY FEATURES

- ▶ 16/32/48-CH Input & 16/24\*PoE Ports (16/32/48 channels are supported, and PoE ports design provides just one step to connect.)
- ▶ H.265<sup>+</sup> (H.265<sup>+</sup> allows to cut down 70%~80% bandwidth while ensuring the high quality of images compared with H.265.)
- ▶ HTML5 Streaming Ready (Support previewing the video via all major browsers without plug-in free when Video Codec is set to H.265.)
- ▶ Transcoding (Transcoding guarantees fluid video experience by reducing the stream data via lowering resolution, bit rate, or frame rate.)
- ▶ Auto Backup (The latest 24 hours' video will be automatically backed up to USB Port Devices or NAS after setting up the backup.)

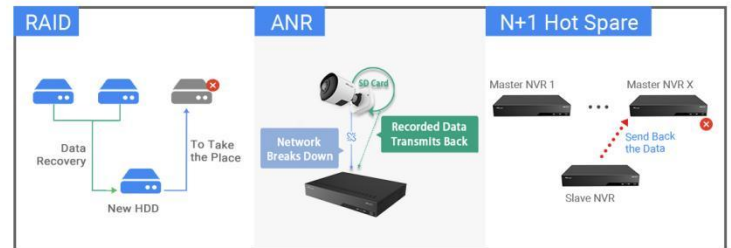
## Power Decoding Capacity & Flexible Storage Options

- The 4K NVR is equipped with solid 4K decoding and display capabilities and maximum supports simultaneous viewing of 16\*1080P or 32\*720P network cameras.
- Providing flexible storage options including HDD and NAS to address the needs for versatile storage.



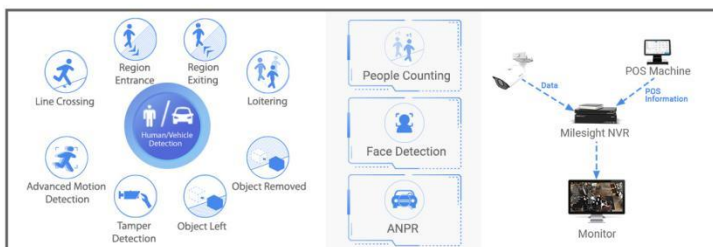
## Reliability and Usability

- RAID improves the disk reliability to ensure the recording security.
- ANR can store video data on the camera storage card when network between IPC and NVR is disconnected and retransfer the recorded video to NVR after network recovers.
- N+1 Hot Spare can keep the system working on and ensure the data integrity and reliability.



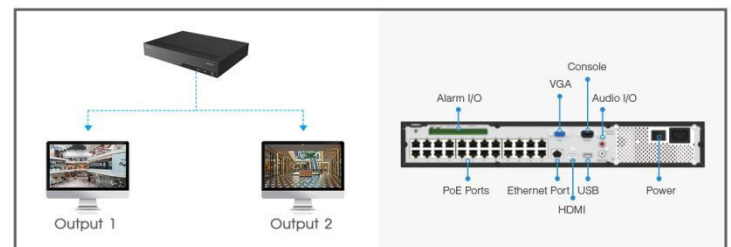
## AI Video Analytics & POS Integration

- All-in-one to Manage AI & ANPR: VCA Function focus on human and vehicle detection. People Counting provides high-accuracy data and statistic reports. Face Detection function supports attribute recognition. Enterprise ANPR Management makes it easy to monitor traffic.
- POS machine information can be transferred to and displayed on the NVR.



## Flexible Structure

- Multi-video Output in two ways: Independent Outputs and Synchronous Outputs
- A whole array of ports provides all necessary features for effective surveillance.



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Model		MS-N7016-UPH	MS-N7032-UPH	
Video/Audio Input	Network Video Input	16-CH	32-CH	
	Bandwidth	Incoming	160Mbps	256Mbps or 200Mbps(When RAID is enabled)
		Outgoing	160Mbps	256Mbps or 200Mbps(When RAID is enabled)
Video/Audio Output	HDMI Output	1-CH, Resolution: 3840x2160/60Hz, 3840x2160/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz HDMI Supports Audio Output		
	VGA Output	1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz		
	Dual Stream	Support		
	Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		
	Synchronous Playback	4*(30fps @8MP), 5*(30fps @6MP), 6*(30fps @5MP), 8*(30fps @4MP), 10*(30fps @3MP), 16*(30fps @1080P), 16*(30fps @720P)	4*(30fps @8MP), 5*(30fps @6MP), 6*(30fps @5MP), 8*(30fps @4MP), 10*(30fps @3MP), 16*(30fps @1080P), 32*(30fps @720P)	
Video/Audio Compression	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264		
	Audio Compression	G.711/AAC/G.722/G.726		
	Sample Rate	8KHz/16KHz		
Storage	SATA	4*SATA HDD(3.5")		
	Capacity	Up to 20TB capacity for each HDD		
Disk Array	Array Type	RAID0, RAID1, RAID5, RAID6, RAID10		
Recording Management	Recording Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)		
	Snapshot Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)		
	Playback Type	General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback		
Backup	Backup	Video Backup, Image Backup		
Network	Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS		
External Interface	Network Interface	1*RJ45 10/100/1000Mbps 1*RS-485 Series Port for PTZ		
	Serial Interface	1*RS-232 Series Port for Console 1*RS-485 Series Port for Keyboard		
	USB Interface	1*USB 3.0; 2*USB 2.0		
	Audio Input/Output	1*RCA/1*RCA		
	Alarm Input/Output	16-CH/4-CH		
PoE Interface	Interface	16*RJ45 10/100Mbps	24*RJ45 10/100Mbps	
	Power Output	≤200W		
	Supported Standard	IEEE 802.3af/at		
General	Compatibility	ONVIF, API		
	Advanced Function	ANR		
	ANPR	Support		
	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed		
	Keyboard Control	Milesight Keyboard (MS-K01)		
	Power Supply	AC 100V~240V 50Hz~60Hz		
	Consumption	≤20W(Without HDD, without enabling PoE)	≤18W(Without HDD, without enabling PoE)	
	Working Conditions	Temperature: -10℃~55℃/Humidity: 10%~90%		
	Dimensions	Rack Mountable Chassis (1.5U Standard) 440mm(W)X320mm(D)X66.8mm(H)	Rack Mountable Chassis (1.5U Standard) 440mm(W)X390mm(D)X66.75mm(H)	
	Weight	5.0Kg	4.89Kg	
Warranty	3/5 Years			



Model		MS-N7048-UPH
Video/Audio Input	Network Video Input	48-CH
	Bandwidth	Incoming 320Mbps or 200Mbps(When RAID is enabled)
		Outgoing 256Mbps or 200Mbps(When RAID is enabled)
Video/Audio Output	HDMI Output	1-CH, Resolution: 3840x2160/60Hz, 3840x2160/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz HDMI Supports Audio Output
	VGA Output	1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
	Dual Stream	Support
	Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF
	Synchronous Playback	4*(30fps @8MP), 5*(30fps @6MP), 6*(30fps @5MP), 8*(30fps @4MP), 10*(30fps @3MP), 16*(30fps @1080P), 32*(30fps @720P)
Video/Audio Compression	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264
	Audio Compression	G.711/AAC/G.722/G.726
	Sample Rate	8KHz/16KHz
Storage	SATA	4*SATA HDD(3.5")
	Capacity	Up to 20TB capacity for each HDD
Disk Array	Array Type	RAID0, RAID1, RAID5, RAID6, RAID10
Recording Management	Recording Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
	Snapshot Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
	Playback Type	General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback
Backup	Backup	Video Backup, Image Backup
Network	Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS
External Interface	Network Interface	1*RJ45 10/100/1000Mbps 1*RS-485 Series Port for PTZ
	Serial Interface	1*RS-232 Series Port for Console 1*RS-485 Series Port for Keyboard
	USB Interface	1*USB 3.0; 2*USB 2.0
	Audio Input/Output	1*RCA/1*RCA
	Alarm Input/Output	16-CH/4-CH
PoE Interface	Interface	24*RJ45 10/100Mbps
	Power Output	≤200W
	Supported Standard	IEEE 802.3af/at
General	Compatibility	ONVIF, API
	Advanced Function	ANR
	ANPR	Support
	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed
	Keyboard Control	Milesight Keyboard (MS-K01)
	Power Supply	AC 100V~240V 50Hz~60Hz
	Consumption	≤18W(Without HDD, without enabling PoE)
	Working Conditions	Temperature: -10℃~55℃/Humidity: 10%~90%
	Dimensions	Rack Mountable Chassis (1.5U Standard) 440mm(W)X390mm(D)X66.75mm(H)
	Weight	4.89Kg
Warranty	3/5 Years	

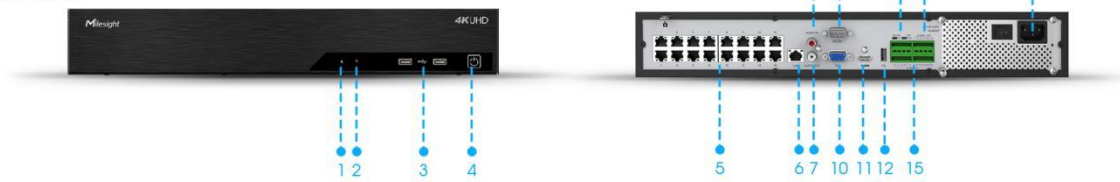


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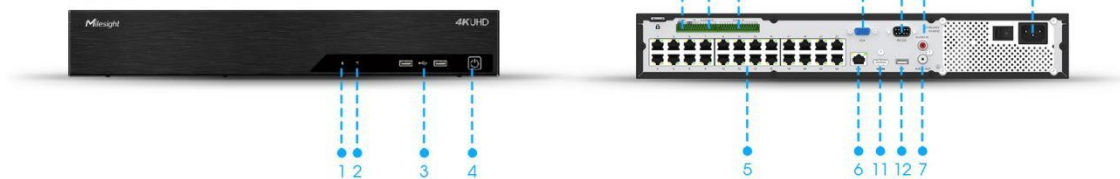


## Interfaces

### MS-N7016-UPH



### MS-N7032-UPH/MS-N7048-UPH



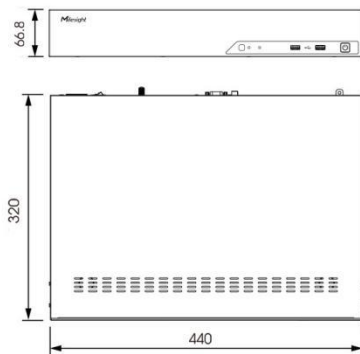
- 1. Run Indicator
- 2. HDD Indicator
- 3. USB
- 4. Power
- 5. PoE Ports
- 6. LAN
- 7. Audio Out
- 8. Audio In
- 9. RS-232
- 10. VGA
- 11. HDMI
- 12. USB
- 13. RS-485
- 14. Alarm Out
- 15. Alarm In
- 16. Power

## Installation of HDDs

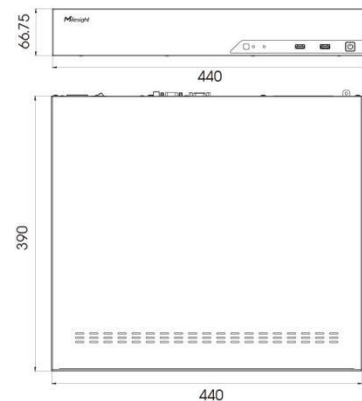


## Structure Diagrams

### MS-N7016-UPH



### MS-N7032-UPH /MS-N7048-UPH



Units: mm

## Naming Convention

