Milesight

4K H.265 PoE NVR
7000 Series

PoE

4K+H.265



4K | H.265 HEVC | Onvif S&T | Plug&Play | Multi-video Output | Transcoding | RAID

ANPR | VCA | Online Upgrade | P2P | HTML5 | ANR | Face Detection

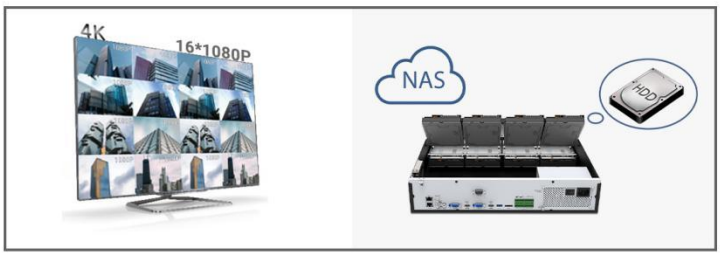
DATASHEET

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+ (H.265+ allows to cut down 70%~80% bandwidth while ensuring the high quality of images compared with H.264.)
- 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.)

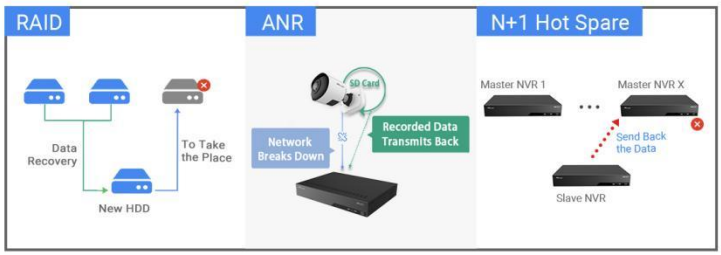
Power Decoding Capacity & Flexible Storage Options

- 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.



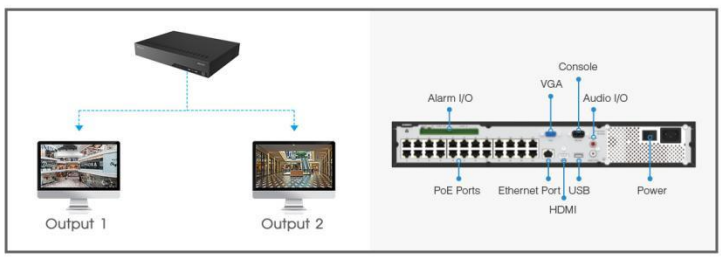
AI Video Analytics & POS Integration

- 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.



4K H.265 PoE NVR 7000 Series



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: 3840x2160/30Hz, 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		*The recommended parameters are theoretical values only. Actual performance may vary depending on the usage environment, the number of connected cameras, and their models.	
			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 10TB capacity for each HDD	
Disk Array	Software Raid		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	
	Serial Interface		1*RS-485 Series Port for PTZ	
			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	

4K H.265 PoE NVR 7000 Series



General	Compatibility	ONVIF, API	
	Advanced Function	ANR	
	ANPR	Support	
	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, 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	

4K H.265 PoE NVR 7000 Series



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		*The recommended parameters are theoretical values only. Actual performance may vary depending on the usage environment, the number of connected cameras, and their models. 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 10TB 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
	Serial Interface		1*RS-485 Series Port for PTZ
			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, 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

V8.03

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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

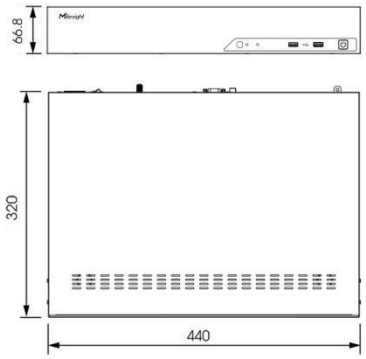
Installation of HDDs



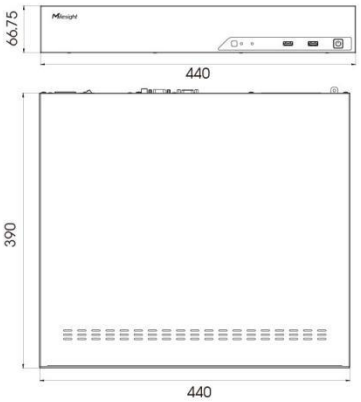
Step1 Step2 Step3 Step4 Step5

Structure Diagrams

MS-N7016-UPH



MS-N7032-UPH /MS-N7048-UPH



Units: mm

Naming Convention

MS-N | 7 | 016- | UPH

- 7: 4*3.5"HDD
- 016-: 016--16-CH (032--32-CH 048--48-CH)
- UPH: 4K+PoE+H.265

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