![Milesight logo]

4K H.265 Pro NVR 7000 Series

4K+H.265

4K 4K	**H.265 HEVC** H.265	**OnVIF** Onvif	**HDMI** HDMI	VGA	Audio Out	Alarm In/Out
Multi-video Output	Transcoding	**ANR** ANR	RAID	**N+1 Hot Spare** N+1 Hot Spare	**ANPR** ANPR	**VCA** VCA
		Online Upgrade	**P2P** P2P	**HTML5** HTML5		

MS-N7016-UH/MS-N7032-UH

DATASHEET

KEY FEATURES

▶ **Powerful Decoding Capacity** (Maximum supporting 16*1080P or 32*720P network cameras viewing at the same time.)

▶ **HDMI & VGA** (Providing both HDMI and VGA ports for users to choose according to their monitor types.)

▶ **4*3.5"HDD** (4 SATA of 3.5"HDD, providing 10TB capacity for each HDD, up to 40TB total hard disk storage.)

▶ **Dual LAN Interfaces** (Designed for three network working modes as Multi-address, Load Balance and Net Fault-tolerance.)

▶ **Video Content Analysis** (With 10 detection modes, VCA greatly enhances the performance bringing comprehensive surveillance functions.)

▶ **ANR** (Can automatically replenish the recording gap due to internet interruptions(by storing at the edge).)

▶ **N+1 Hot Spare** (A backup mechanism which ensures the monitoring system uninterrupted working.)

H.265+H.264

Smartly figure out and switch between H.264 and H.265 automatically. It will extend the days to save recording file with H.265 than with other compressions.

Switch H.264 ↔ H.265

H.265
H.264

Recording Days

Powerful Decoding Capacity

Maximum support up to 16*1080P or 32*720P network cameras viewing at the same time.

32-CH 30fps@720P   16-CH 30fps@1080P   10-CH 30fps@3MP
8-CH 30fps@4MP   6-CH 30fps@5MP   5-CH 30fps@6MP   4-CH 30fps@8MP

4K

Multi-video Output

Independent Outputs: Multiple outputs to display various channels independently.
Synchronous Outputs: The same channel to be displayed at different locations synchronously.
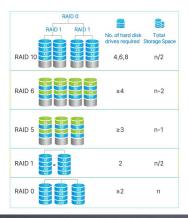
Output 1   Output 2

RAID 0/1/5/6/10

RAID (Redundant Array of Independent Disks) is a method of combining hard disks as a logical unit to achieve redundancy and greater speed of writing and reading data.
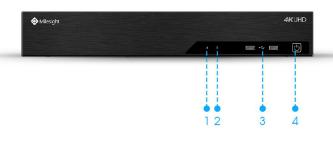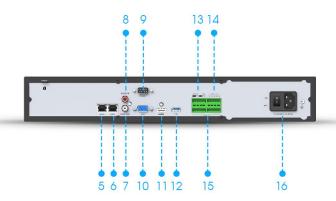
	No. of hard disk drives required	Total Storage Space
RAID 10	4,6,8	n/2
RAID 6	≥4	n-2
RAID 5	≥3	n-1
RAID 1	2	n/2
RAID 0	≥2	n

Model			MS-N7016-UH	MS-N7032-UH
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	
	Synchronous Recording		16*5MP	32*5MP
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		2*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	
General	Compatibility		ONVIF, API	
	Advanced Function		ANR, N+1 Hot Spare	
	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		≤15W(Without HDD)	
	Working Conditions		Temperature: -10℃~55℃/Humidity: 10%~90%	
	Dimensions		Rack Mountable Chassis (1.5U Standard) 440mm(W)X320mm(D)X66.8mm(H)	
	Weight		4.1Kg	
	Warranty		3/5 Years	

V7.21

Interfaces

8 9   13 14

1 2   3   4

5 6 7 10 11 12 15   16

1. Run Indicator	2. HDD Indicator	3. USB	4. Power Light	5. LAN1	6. LAN2	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

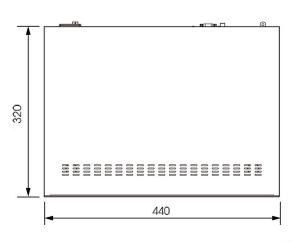## Structure Diagrams

66.8

320

440

Units: mm

Naming Convention

MS-N   7   016-   UH

4*3.5"HDD   016--16-CH   4K+H.265
                   (032--32-CH)