

- ▶ 16/48-CH Input & 16/24\*PoE Ports (16/48 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.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 24\*1080P or 48\*720P network cameras.
- Providing flexible storage options including HDD and NAS to address the needs for versatile storage.



### Al 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.



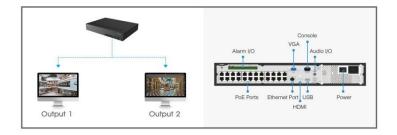
# Reliability and Usability

- 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.



#### 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



Network   Second   Network   Second   Network   Network   Second   Network   Networ
Incoming
Input
Video/Audio   Output
Video/Audio Output         HDMI Output         1280x102A/60Hz, 1280x120/60Hz, 1280x102A/768/60Hz HDMI Supports Audio Output           Video/Audio Output         1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 102Ar58/60Hz           Video/Audio Compression         6*6/30Fp8@8MP, 8*30Fp. 69MP, 16*(30Fps@MP), 16*(30Fps@MP), 16*(30Fps@MP), 16*(30Fps@MP), 16*(30Fps@MP), 16*(30Fps@MP), 16*(30Fps@DI)           Video/Audio Compression         3-12*(30Fps@4MP), 16*(30Fps@1080P), 16*(30
Video/Audio Output         VGA Output         1-CH, Resolution: 1920x1080/60k1, 1920x1080/50k1, 1280x1024/50k1,           Output         VGA Output         1-CH, Resolution: 1920x1080/50k1, 120x4768/60h12           Video/Audio Output         CREATION OUTPUT (SUPP) MP/AMP/AMP/AMP/AMP/AMP/AMP/AMP/AMP/AMP/A
Video/Audio Output         Vodeo/England Stream Recording Resolution         1280x720/60Hz, 1024x768/60Hz         1280x720/60Hz, 1024x768/60Hz           Output         Stream Recording Resolution         12MP/8MP/6MP/5MP/4MP/3MP/10MP/05MP/VXGA/720P/D1/VGA/CIF/QCIF           6* (30fps @3MP), 8* (30fps @6MP), 9* (30fps @3MP), 16* (30fps @1080P),
Dual Stream
Output         Recording Resolution         12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF           6*(301ps @8MP), 8*(301ps @6MP), 9*(301ps @5MP),         12*(301ps @6MP), 16*(301ps @1080P),           1*(301ps @2MP), 16*(301ps @1080P),         16*(301ps @1080P),           16*(301ps @2MP), 16*(301ps @1080P),         16*(301ps @2MP), 16*(301ps @1080P),           4uido Compression         4.125*7H.256*1HVCI/H.264*7H.264           Audio Compression         6.711/AAC/G.722/G.726           Storage         SATA         4*SATA HDD(3.5*)           Capacity         Up to 10TB capacity for each HDD           Backup         Recording Type         Recording Type           Snapshot 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, Playback           Backup         Network Interface           External Interface         1Pv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPs, DNS, DNS, DNS, DNP, SNP, SNP, SNMP, UPPP, NTS           External Interface         1*RS-485 Series Port for Console           USB Interface         1*RS-485 Series Port for Eveboard           USB Interface         1*RS-485 Series Port for Eveboard           1*RS-485 Series Port for Eveboard
Synchronous Playback
Synchronous Playback   11°(30fps @AMP), 16°(30fps @10MP), 16°(30
Video Audio
Video Audio
Order Sion Compression Sample Rate         Audio Compression Sample Rate         G.711/AAC/G.722/G.726           Storage Storage Disk Array         SATA A A A A A A A A A A A A A A A A A A
Compression         Addio Compression Sample Rate         6.711/AAC/G.722/G.726           Storage         SATA         4*SATA HDD(3.5")           Disk Array         Array Type         RAIDO, RAIDI, RAIDS, RAIDG, RAIDIO           Recording Management         Recording Type         Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)           Backup         Backup         Video Backup, Image Backup           Network         Protocol         IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SMTP, SMTP, SMMP, UPnP, NFS           External Interface         1*RS-232 Series Port for PTZ           Serial Interface         1*RS-232 Series Port for FTZ           USB Interface         1*RS-232 Series Port for Console           USB Interface         1*RS-232 Series Port for Keyboard           USB Interface         1*SS-248S Series Port for Console           Power Output         5           Supported Standard         1EEE 802.3af/at           Wideo Analysis
Sample Rate Sample Rate SakHz/16kHz  Array Type ARAIDO, RAIDI, RAIDS, RAIDG, RAIDI  Recording Management Recording Type Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis) Array Type General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback  Backup Backup Video Backup, Image Backup Video Backup, Image Backup  Network Protocol IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DBCS, DHCP, NTP, SNTP, SMTP, SMMP, UPnP, NTS  External Interface Serial Interface 1*RS-323 Series Port for PTZ  Serial Interface Audio Input/Output 1*RS-485 Series Port for Keyboard  Alarm Input/Output 1*G-CH/A-CH  Alarm Input/Output 1*G-CH/A-CH  Alarm Input/Output 2*200W Supported Standard IEEE 802.3af/at  ONVIF, API  Advanced Function ANR  ANPR Segion Entrance, Region Exting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed  Milesight Keyboard (MS-KOII)  Power Supply AC 100V*240V 50Hz*60Hz
Storage   Capacity
Capacity Up to 10TB capacity for each HDD  Disk Array  Recording Management  Recording Type Snapshot Type Playback Type Playback Type Playback, Event Motion Detection, Alarm, VCA, Smart Analysis)  Snapshot Type Playback Type Playback, Event Playback, Event Playback, Split Playback, Picture Playback  Recording Management  Recording Type Snapshot Type Playback Type Playback Type General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback  Protocol  IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SMTP, S
Recording Management         Recording Type Snapshot Type Playback Type Playback Type General Playback, Event (Motion Detection, Alarm, VCA, Smart Analysis) 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, SNMP, SNMP, UPnP, NFS           External Interface         1*RS-485 Series Port for Console           USB Interface         1*RS-485 Series Port for Console           USB Interface         1*SS-485 Series Port for Keyboard           USB Interface         1*BS-485 Series Port for Console           Adarm Input/Output         1*CH/4-CH           Alarm Input/Output         1*CH/4-CH           Alarm Input/Output         1*CH/4-CH           Supported Standard         1*ES 82.3 af/at           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           General         Power Supply         AC 100V~240V 50Hz~60Hz
Recording ManagementSnapshot Type Playback TypeContinuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)BackupBackupVideo Backup, Image BackupNetworkProtocolIPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMMP, UPnP, NFSExternal InterfaceNetwork Interface1*RJ45 10/100/1000MbpsExternal InterfaceSerial Interface1*RS-485 Series Port for ConsoleUSB Interface1*RS-485 Series Port for KeyboardUSB Interface1*RS-485 Series Port for KeyboardAddio Input/Output1*RCA/1*RCAAlarm Input/Output1*RCA/1*RCAPOE InterfaceInterface16*RJ45 10/100MbpsPower Output\$200WSupported StandardIEEE 802.3af/atCompatibilityONVIF, APIAdvanced FunctionANRANPRSupportVideo AnalysisRegion Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object RemovedGeneralPower SupplyAC 100V"240V 50Hz"60Hz
Management         Snapshot Type         Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)           Backup         Backup         General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback           Network         Protocol         IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SMMP, UPnP, NFS           External Interface         1*RS-485 Series Port for PTZ           Serial Interface         1*RS-232 Series Port for Console           USB Interface         1*RS-485 Series Port for Keyboard           USB Interface         1*RS-485 Series Port for Keyboard           Audio Input/Output         1*RS-485 Series Port for Keyboard           Audio Input/Output         1*RS-485 Series Port for Keyboard           Audio Input/Output         1*RS-485 Series Port for Keyboard           Interface         1*USB 3.0; 2*USB 2.0           Audio Input/Output         1*CA/1*RCA           Interface         1*RS-485 Series Port for Keyboard           Pose Power Output         2*COW           Supported Standard           Supported Standard           Supported Standard           Advanced Function         ANR           ANPR
Backup Backup Video Backup, Image Backup  Network Protocol IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DNS, DDNS, DHCP, NTP, SMTP, SMMP, UPnP, NFS  Network Interface 1*RS-485 Series Port for PTZ  Serial Interface 2 1*RS-485 Series Port for Console 1*RS-485 Series Port for Keyboard  USB Interface 4 1*RS-232 Series Port for Keyboard  USB Interface 4 1*CSB 3.0; 2*USB 2.0  Audio Input/Output 4 1*RCA/1*RCA  Alarm Input/Output 4 16-CH/4-CH  Interface 5 16*RJ45 10/100Mbps  POE Interface 6 16*RJ45 10/100Mbps  Power Output 5 200W  Supported Standard IEEE 802.3af/at  Compatibility 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
Network   Protocol   IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, NTP, SMTP, SMMP, UPnP, NFS
Network Interface
External Interface  Serial Interface  Serial Interface  Serial Interface  1*RS-485 Series Port for Console  1*RS-485 Series Port for Keyboard  USB Interface  1*USB 3.0; 2*USB 2.0  Audio Input/Output  Alarm Input/Output  Interface  Poer Output  Supported Standard  Compatibility  Advanced Function  ANR  ANPR  Video Analysis  Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed  Keyboard Control  Power Supply  AC 100V~240V 50Hz~60Hz  Possessing Port for PTZ  1*RS-485 Series Port for PTZ  1*RS-485 Series Port for Console  1*RS-485 Series Port for PTZ  1*RS-485 Series Port for Console  1*RS-485 Series Pott for Console  1*RS-485 Series Pott for Keyboard  1*RS-485 Series Potter  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**RCA  1*RCA/1**CH  1*RCA/1**RCA  1*RCA/1**CH  1*RCA/1**RCA  1*RCA/1**CH  1*RCA/1**RCA  1*RCA/1**CH  1*RCA/1**RCA  1*RCA/1**CH  1*RCA/1**CH  1*RCA/1**CH  1*RCA/1**CH  1*
External Interface    Serial Interface   1*RS-232 Series Port for Console   1*RS-485 Series Port for Keyboard   1*RS-485 Series Port for Console   1*RS-485 Series Port for Keyboard   1*RS-485 Series Port for Keyboard
Interface USB Interface USB Interface Audio Input/Output Alarm Input/Output Interface  PoE Interface  Compatibility Advanced Function ANR ANPR ANPR Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed  Keyboard Control  General  PSB Interface  USB Interface  1*RS-485 Series Port for Keyboard  1*RCA/1*RCA  16*RCA/1*RCA  16*RCA/1*RCA
Interface USB Interface USB Interface Audio Input/Output Alarm Input/Output Interface Interface Interface Interface Interface Interface Interface Power Output Supported Standard Compatibility Advanced Function ANPR ANPR ANPR Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed Keyboard Control Power Supply AC 100V~240V 50Hz~60Hz  IT SUSB 3.0; 2*USB 2.0  1*RS-485 Series Port for Keyboard I*RS-485 Series Port for Keyboard I*RS-485 Series Port for Keyboard I*USB 3.0; 2*USB 2.0  1*CHANCAL STANCAL STAN
USB Interface
POE InterfaceInterface16*RJ45 10/100MbpsPOE InterfacePower Output≤200WSupported StandardIEEE 802.3af/atCompatibilityONVIF, APIAdvanced FunctionANRANPRSupportVideo AnalysisRegion Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object RemovedKeyboard ControlMilesight Keyboard (MS-K01)Power SupplyAC 100V~240V 50Hz~60Hz
PoE Interface       Interface       16*RJ45 10/100Mbps         Power Output       ≤200W         Supported Standard       IEEE 802.3af/at         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
PoE Interface       Power Output       ≤200W         Supported Standard       IEEE 802.3af/at         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
Supported Standard  Compatibility Advanced Function ANR ANPR Video Analysis  Keyboard Control Power Supply  Support  AC 100V~240V 50Hz~60Hz  Compatibility  ONVIF, API  ANR Support Support  Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed  Milesight Keyboard (MS-K01)  AC 100V~240V 50Hz~60Hz
Compatibility Advanced Function ANR ANPR Video Analysis Keyboard Control Fower Supply  Compatibility Advanced Function ANR Support Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, People Counting, Object Left, Object Removed Milesight Keyboard (MS-K01) AC 100V~240V 50Hz~60Hz
Advanced Function ANR 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
ANPR  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
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)  AC 100V~240V 50Hz~60Hz
Keyboard Control  General  Control  Con
Keyboard Control  General  Keyboard Control  Milesight Keyboard (MS-K01)  AC 100V~240V 50Hz~60Hz
General Power Supply AC 100V~240V 50Hz~60Hz
General
Consumption   Szow(without Fibb, without enabling Fob)
Working Conditions Temperature: -10°C~55°C/Humidity: 10%~90%
Working Conditions Temperature: -10°C~55°C/Humidity: 10%~90% Rack Mountable Chassis (1.5U Standard)
Dimensions 440mm(W)X320mm(D)X66.8mm(H)
Weight 5.0Kg

www.milesight.com

# 4K H.265 PoE NVR 7000 Series





 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





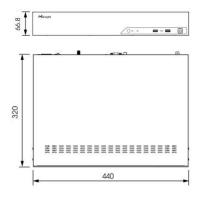




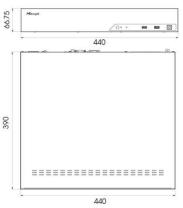


Structure Diagrams

MS-N7016-PG



MS-N7048-PG



Units: mm

Naming Convention

MS-N 7 016- PG

4\*3.5"HDD 016--16-CH POE+H.265

Milesight | www.milesight.com







