

# MS-NVR2420-4POE-1TB

## Mobile PoE NVR



### Features

#### Excellent Video Transmission

- MSWTP protocol for 3G / 4G transmission, improves the video stream continuity under unstable network conditions
- H.265 video codec, saves up to 50% bandwidth and storage

#### High-performance

- 1 x 4K@30fps video decoding capability
- Up to 12 channel and 4K H.265 supported

#### High reliability

- Embedded Linux
- Low power consumption
- Aviation plug design for Ethernet, video, audio, control signal and power supply
- Fan-less design with heat dissipation shell
- Shock-proof design, protects the HDD while vehicle is being driven

#### Easy to install and Use

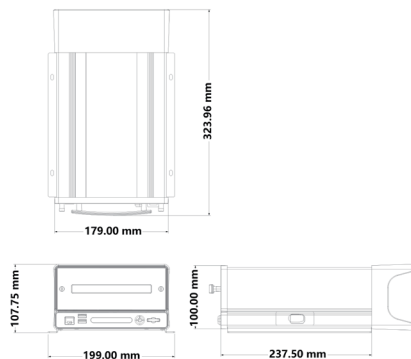
- Automatic network organizing
- Built-in DHCP server
- Pluggable HDD drawer, easy to change HDD module
- HDD module supports USB interface, easy to backup record

#### Abundant functions and features

- Up to 12 IP Camera access
- Built-in Wi-Fi AP module, can access Wi-Fi IP camera
- All mobile networks supported
- Supports dual SIM card bundle
- Built-in GPS module

### Dimensions

Units:mm



### Specifications

<b>Video/Audio Input</b>	
Camera Input	4 channel
Resolution	8MP(4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Compression	H.264 / H.265
Protocols	Onvif, RTSP, MSWTP
Bitrate	64kbps ~ 16384kbps
Incoming Bandwidth	20Mbps
<b>Live Viewing</b>	
Local Display	1 x HDMI, 1 x VGA, 2 x CVBS, simultaneously output same content
Layout	1, 4, 9, 16
Function	E-PTZ / Scheme / Polling
<b>Recording</b>	
Resolution	8MP(4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Supported
Tag	Supported
<b>Search &amp; Playback</b>	
Search Mode	Date and time (Calendar) / Event
Resolution	8MP (4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Playback (Local Monitor)	1 x 4K@30fps / 4 x 1080p@30fps
Playback (Client)	up to 16 x 4K@30fps
Synchronize Playback (Local Monitor)	1 x 4K@30fps / 4 x 1080p@30fps
Synchronize Playback (Client)	4 x 4K@30fps
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ
<b>Storage</b>	
Max. Internal HDDs	2 x 2.5" HDD
Max. 8TB (up to 4TB / each)	
Built-in Storage	-GH: 1 x 1TB HDD
<b>Audio</b>	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / AAC-LC / G.726
Bit rate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting
<b>Alarm</b>	
Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge	
Service Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network fault / Insufficient recording space / MAC address conflict / Insufficient snapshot space / Unauthorized access
System Alarm Triggers	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Full screen viewing
Alarm Events	
<b>System</b>	
Operating System	Embedded Linux
User Management	Admin / User
Log Management	User login / User operation / Alarm / Backup / Update
Application Programming	CGI
<b>Network</b>	
Network Protocols	TCP / IP, UDP, HTTP, DHCP, DNS / DDNS, RTP / RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)
Viewer Software	Web
Max. User Access	16 Users
Function	NAT / Socks5 / Multiple network access / Packet loss recovery
Network Test	Supported
<b>Wireless</b>	
-S: Wi-Fi	
-G / -GH: Wi-Fi, 3G / 4G	
<b>Number of Simcard Slots</b>	
-S: 0	
-G / -GH: default 1, up to 2	
<b>3G / 4G Frequency Band</b>	
FDD-LTE: B1 / B2 / B3 / B5 / B7 / B8 / B20	
TDD-LTE: B38 / B39 / B40 / B41	
HSPA / UMTS: 850 / 900 / 1800 / 1900 / 2100MHz	
GSM / GPRS / EDGE: 850 / 900 / 1800 / 1900MHz	
TD-SCDMA: B34 / B39	
EVDO/CDMA: BCD / BC1	
Customizable network spectrum	
Wi-Fi	802.11 b/g/n/a/ac 2.4G / 5G, Wi-Fi AP
Location Technology	GPS, GLONASS
Application Programming	Onvif (Profile S, Profile G), API, CGI
<b>Interfaces</b>	
Ethernet	1 x 10 / 100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Mic in / 1 x Line out
	2 x 10 pin: 4 x PoE RJ45 interface
Aviation Plug	1 x 4 pin: 2 x CVBS output
	1 x 4 pin: Power supply for PTZ camera
	1 x 9 pin: Power input 9 ~ 36V DC
Video Out	1 x HDMI (up to 4K@30Hz)
	1 x VGA (up to 1920 x 1080@60Hz)
	2 x CVBS (PAL 720 x 576, NTSC 720 x 480)
PoE Camera Input	4 channel
Alarm In / Out	8 x Input / 4 x Output
Antenna	2 x Wi-Fi Antenna interface, 1 x GNSS Antenna interface, 1 x 4G Antenna interface (up to 2)
Control	1 x RS485, 1 x RS232
<b>Environmental</b>	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 90%
<b>Electrical</b>	
Power	DC 9 ~ 36V
Power Consumption	max. 96W
<b>Mechanical</b>	
Weight	5.6kg / 12.35lb
Dimensions	280 x 180 x 98mm / 11.02" x 7.09" x 3.86"
<b>Accessories</b>	
	1 x Cable Housing
	1 x 18 pin Wire Harness Connector
	1 x 20 pin Harness Connector
	5 x Aviation plug connector cable
	2 x Wi-Fi Antenna
	1 x GNSS Antenna
Standard	
	-G / GH: 1 x 4G Antenna (up to 2)
Optional	HDMI adapter cable (Type-E male to type-A male)