



S Series

NV9421P

H.265 16-CH Embedded PoE
Mobile NVR



Technical Specifications

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Descriptions	16-CH Embedded PoE Mobile NVR (M12)
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Device

OS	Embedded Linux
Watchdog	Hardware + Software
Power Restoration	System Restart Automatically after Power Recovery

Display

LiveView Display	16 Channels Multi Layout Display: 1x1, 1M+5, 1M+12, 1P+3, 1P+6, 2x2, 2P+3, 3x3, 3V, 4x4
Video Output	HDMI x1, VGA x1
Display Resolution	3840x2160, 1920x1080, 1280x720
Stream Application	Constant\Auto Adaptive Stream
Fisheye Dewarp	Local: 1O, 1P, 1R, 1O3R, 1O8R, 1P3R Web: 1O, 1R, 1P
PTZ Operation	Direction Control, Home, Iris, Preset, Patrol (Group)

Video

Video Format	MJPEG, H.264, H.265
Graphic Decoder	Hardware decoding
Decoding Resolution	Up to 7680x2560
Decoding Capability	H.265/H.264: 3840x2160 @ 90 fps (3-CH) 1920x1080 @ 360 fps (12-CH)

Audio	
Audio Format	G.711, G.726, AAC
Audio In/Out	Line out x1

Record	
Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)
Recording Stream	Dual
Recording Throughput	192 Mbps
Recording Mode	Continuous, Schedule, Manual, Event
Recording Setting	Recycle (unit: Day)
Watermark	Supported

Storage & Backup	
DISK Devices	Up to 2x 2.5" industrial-grade SSDs (Phison MSD260, sold separately) with a cold-swappable storage bay featuring a secure key lock
HDD Max. Capacity	Please refer to SSD supported list on VIVOTEK website
RAID	RAID 0, 1
Disk Management	Create, Format and Remove Disk HDD S.M.A.R.T
SD Card	SD card slot x1 (reserved)
Video Clip Export	USB Dongle (FAT Format)
Schedule Backup	FTP

Playback	
Playback Display	4 Channels Multi Layout Display: 1x1, 2x2, 1P+3, 1V+3
Playback Control	Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)
Video Search	Calendar Date/Time Alarm
Thumbnail Explorer (Storyboard)	Listing the thumbnail of recorded video (Max. 2 CH)
Snapshot	JPEG
Video Clip Export	EXE

Network	
Ethernet	10/100/1000Mbps Ethernet (RJ-45) x1
Network Throughput in total	224 Mbps
WiFi	802.11a/b/g/n/ac 2T2R (optional accessory: WNFT-237ACN(BT) module and AMN-W21-02 antenna)
Mobile Network	LTE (optional accessory: SIM7600G-H-M2 module and AMN-M21-02 antenna)
PoE	802.3at/af compliant PoE ports x8 (M12) (Total Max. 64W)
PoE Management	Supported

Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter
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External Interface	
USB	Front: 1 (USB 2.0) Back: 1 (USB 2.0)
CAN	Signaling x2 pair in one M12 connector
Alarm In	x8 (DI: 5V~ 30VDC)
Alarm Out	x4 (DO: max. 1A 30VDC or 0.5A 125VAC)
Audio	Line out x1
Antenna Interface	GNSS x1, WiFi x2, LTE x2 (Reserved)
RS232	1 Port (Reserved)

System	
Camera Integration	ONVIF Profile S
GNSS	GPS/GLONASS, L1 band, 1 (default)~10Hz NMEA 0183 output rate
G-sensor	Support 16-bit resolution, 128 to 1024 samples/sec, range: ± 2 , ± 4 , ± 8 , ± 12 , ± 16 g
Event	Motion Detection, PIR Detection, Tampering Detection, Camera DI/DO, Camera Disconnected, Disk Failure, Disk Full, NVR DI/DO, GPS disconnected, GPS speed, G-sensor, PoE error
Event Action	Video recording email with snapshot Buzzer PTZ FTP DO (camera, system) full screen send to CMS VIVOCLOUD App Notification
User Management	User level: administrator, regular user
Log	System Recording User Error
Date&Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Language	Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese, Arabic

Remote Client	
Software AP	Shepherd, VSS
Mobile/Tablet App	iViewer (Android & iOS)
Web Browser	Chrome

General	
Power Input	DC 12V~48V
Power Management	Programmable delay on/off relative to ignition or other switched voltage
Power Consumption	Max. 155 W
Dimensions	230 (D) x 284 (W) x 91 (H) mm
Weight	approx. 4.4 kg (without HDD)

Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)
Humidity	0 ~ 95%
Safety Certifications	CE, FCC, VCCI, C-Tick, UL, CB, MIL-STD-810G, EN 50155(OT2/ST0/nominal 24VDC), EN 61373, EN 45545, EN 50121-3-2/EN 50121-4