



## S Series

# NV9311P

H.265 8-CH Embedded PoE  
Mobile NVR



## Technical Specifications

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Descriptions	8-CH Embedded PoE Mobile NVR
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### Device

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

### Display

LiveView Display	8 Channels Multi-layout display: 1x1, 3V, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6
Video Output	HDMI x1, VGA x1
Display Resolution	3840x2160, 1920x1080, 1280x720
Stream Application	Constant\Auto Adaptive Stream
Fisheye Dewarp	10, 1P, 1R, 1O3R, 1O8R
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 3840x2160
Decoding Capability	3840x2160 @ 120 fps (4-CH) 1920x1080 @ 240 fps (8-CH)

### Audio

Audio Format	G.711, G.726
Audio In/Out	Line out x 1

## Record

Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)
Recording Stream	Single
Recording Throughput	64 Mbps
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming
Recording Setting	Recycle (unit: Day)
Watermark	Supported

## Storage & Backup

DISK Devices	Internal x1 (2.5" HDD/SSD) (HDD is purchased by separately)
HDD Max. Capacity	Please refer to HDD supported list on VIVOTEK website
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	By Calendar, Date/Time, and 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) x 1
Network Throughput in total	96 Mbps
WiFi	802.11a/b/g/n/ac 2T2R (optional)
Mobile Network	LTE (optional)
PoE	802.3at/af compliant PoE ports x 8 (RJ45) (Total Max. 64W)
PoE Management	Supported
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter

## External Interface

USB	Front x2 (USB 2.0) Back x1 (USB 2.0)
Alarm In	8
Alarm Out	4
Audio	Line out x 1
Antenna Interface	GPS x1, WiFi x2, LTE x2
RS232	1 Port (Reserved)

System	
Camera Integration	ONVIF Profile S
GNSS	GPS/GALILEO/GLONASS supported
G-sensor	Supported
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
Event Action	Video recording, email with snapshot, buzzer, PTZ, FTP, DO (camera, system), full screen, send to CMS
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

Remote Client	
Software AP	Shepherd ,VAST 2
Mobile/Tablet App	iViewer (Android & iOS)
Web Browser	Internet Explorer 10 (32 bit) or later/ Windows Chrome v68.0.3 & Firefox v61.0.2 or later/ Windows & macOS

General	
Power Input	DC 12V~48V ±10%
Power Management	Programmable delay on/off relative to ignition or other switched voltage
Power Consumption	Max. 149 W Without HDD/SSD and PoE: Max. 15 W (Heater off), Max. 60 W (Heater on)
Dimensions	284 (W) x 230 (D) x 90 (H) mm
Weight	4.06 kg (without HDD)
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)
Humidity	0 ~ 95%
Safety Certifications	CE, FCC, VCCI, C-Tick, EN50155, EN61373, UL, CB, EN45545, EN50121-3-2/EN50121-4, MIL-STD-810G