

NV9311P NV9411P

H.265 8/16-CH Embedded Plug & Play Mobile NVR



H.265/H.264 • 8/16CH • 8x PoE • 4K Display • Built-in GNSS Receiver • Built-in G-sensor • WiFi & LTE Options

VIVOTEK's NV9311P/NV9411P is a mobile NVR designed for transportation surveillance and provides 1080p 8-CH or 16-CH real-time live display with recording efficiency using advanced H.265 video compression technology. The 8x 802.3at/af PoE ports provide network connections and power to the network cameras. With a rugged EN50155 and MIL-STD-810G compliant design, these mobile NVRs will provide durable and robust protection for all types of vehicle movement.

The NV9311P/NV9411P supports built-in G-sensor and GNSS module to provide information such as G-sensor events and speed events, as well as offering multiple network interfaces such as LAN, WiFi and LTE for different Network connection

requirements. By implementing VIVOTEK's VAST 2 software, GPS tracking locations are instantly displayed on Google Maps. Live videos can also be displayed remotely, allowing for instant access for complete safety control.

When installed in vehicles, the mobile NVR supports system power delay on/off and low voltage protection for better system reliability. The NVR also features a wide range of power inputs, an aluminum die-case chassis, a built-in heater, surge protection, and protection from shock and vibration. With an easy-to-install design as well as simple operation and rich features, the NV9311P/NV9411P provides more possibilities for tomorrow's invehicle security applications.

Key Features

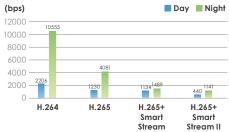
- · H.265 1080p 8/16-CH Real-time Live Display
- · VIVOTEK's Smart Stream II to Optimize Bandwidth Efficiency
- · 4K Display for Clear and Detailed Monitoring
- · LAN/Wi-Fi/LTE Multiple Network Connections
- · 802.3at/af Compliant PoE port x8 with Management Efficiency
- · Built-in G-sensor for Vehicle Vibration Alerts
- · GPS Tracking on Google Maps with VAST 2 VMS
- · Delay Power Startup/Shutdown and Low Voltage Protection
- Built-in Heater for Extreme Temperatures (-40°C ~ 55°C)
- EN50155/MIL-STD-810G certified to Ensure Reliability during Vehicle Travel

Highlight Features

H.265 1080P Real-time Live Display

Featuring a powerful multi-core SoC to provide 1080p (1920x1080) real-time live display so that users will not miss any information during monitoring, the NVRs also provide H.265 and VIVOTEK's Smart Stream technology to help greatly save recording capacity than regular H.264 systems.

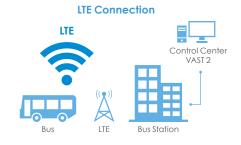




WiFi and LTE Connection Options

The video stream and data of the Mobile NVRs will be transmitted to the control center remotely for monitoring via WiFi 802.11a/b/g/n/ac or LTE connection.





Built-in G-sensor

Built-in G-sensor for drive safety control. Users can set the sensitivity level and the G-sensor will be triggered in the event of an accident or when extreme vibrations happen.







Fisheye Dewarp

VIVOTEK's NVR offers both LiveView and Playback modes for one fisheye network camera simultaneously. They also provide multiple fisheye de-warp display modes, including 10, 1P, 1R, 103R, 108R, allowing users to monitor any angle, or to enjoy precise detailed images for a total surveillance experience.



GPS Tracking on Google Maps

The embedded GNSS receiver supports GPS, GALILEO and GLONASS systems for different area applications. By remotely using VAST 2 VMS, it allows users to have both live video display and GPS tracking from Google Maps.



Highlight Features

Rugged Design for Mobile Surveillance

Compliance with transportation standards EN50155 and MIL-STD-810G, which ensures meeting anti-vibration and anti-shock requirements, and operable in tough conditions such as extreme low temperatures, high humidity, and even surge protection.





MIL-STD 810G





*1: Available when Mobile NVR in static IP address.
*2: Available when Mobile NVR in static IP address or VAST 2 in static IP address (VPN mode).

Model	NV9311P	NV9411P
	H.265 8-CH Mobile NVR	H.265 16-CH Mobile NVR
System		
OS	Embedded Linux	
CPU	ARM processor	
Flash	256MB	
RAM	2GB	
Watchdog	Hardware + Software	
Power Restoration	System restart automatically after power recovery	
Local Display		
Live View Display	8 Channels Multi-layout display: 1x1, 3V, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6	16 Channels Multi-layout display: 1x1, 2x2, 3x3, 1P+3, 2P+3 1M+5, 1P+6, 3V, 1M+12, 4x4
Video Output	HDMI x1, VGA x1	
Display Resolution	3840x2160, 1920x1080, 1280x720	
Camera Position	Change the view cell position on the Live View screens	
Stream Application	Constant/Auto adaptive stream	

Model	NV9311P	NV9411P
	H.265 8-CH Mobile NVR	H.265 16-CH Mobile NVR
Monitor Enhancement	OSD display (NVR), OSD display remote I/O control, event	
Fisheye Dewarp	10, 1P, 1R, 103R, 108R	
PTZ Operation	Direction control, home, iris, preset, patrol (group), PiP control	
/ideo		
/ideo Format	H.265, H.264, MJPEG	
Graphics Decoder	Hardware decoding	
Decoding Resolution	H.265: up to 4096x4096 H.264: up to 8192x8192	
Decoding Capability	H.265/H.264: 3840x2160 @ 120 fps (4-CH) 1920x1080 @ 480 fps (16-CH)	
Audio		
Audio Format	G.711, G.726	
Audio In/Out	Mic in (reserved)/Line out x 1	
Record		
Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)	
Recording Stream	Single	
Recording Throughput	64Mbps	
Recording Mode	Continuous, schedule, manual, event, activity adaptive streaming	
Recording Setting	Recycle (unit: day)	
Natermark	Supported	
Storage		
HDD Devices	Internal x1 (2.5" HDD/SSD)	
HDD Max. Capacity	2TB	
Disk Management	Create, format, remove disk HDD S.M.A.R.T.	
SD Card	SD card slot x1 (reserved)	
Backup	Schedule back	up to FTP server
Playback		
Playback Display	4 Cha Multi-layout display:	
Playback Control	Regular (play, pause, stop), rewind, next /previous frame, speed control, calendar, event, timeline, timeline scale, thumbnail (storyboard)	
/ideo Search	by calendar, do	ate/time, alarm
humbnail Explorer (Storyboard)	Listing the thumbnail of red	corded video (Max. 2-CH)
Snapshot	JPL	EG
/ideo Clip Export	EX	ΚΈ
Network		
Ethernet	10/100/1000Mbps E	Ethernet (RJ-45) x 1

Model	NV9311P H.265 8-CH Mobile NVR	NV9411P H.265 16-CH Mobile NVR
Video Throughput for Remote Client	96Mbps	
WiFi	IEEE802.11a/b/g/n/ac 2T2R (optional)	
Mobile Network	LTE (optional)	
PoE	802.3at/af compliant PoE ports x 8 (total Max. 64W) Please connect an external network switch for further on-line cameras. (Support all VIVOTEK PoE Switches)	
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	Mic in (reserved)/Line out x 1	
Antenna Interface	GP\$ x1, WiFi x2, LTE x2	
R\$232	1 port (reserved)	
System		
Camera Integration	ONVIF core spec 2.2 or above (request by project)	
GNSS	GPS/GALILEO/GLONASS supported	
G-sensor	Supported	
Event	Camera: motion detection, PIR detection, tampering detection, DI/DO, disconnectio System: storage abnormal, storage full, 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	
Remote Client		
Software AP	Shepherd, VAST 2	
Mobile/Tablet App	iViewer (Android & iOS)	
Web Browser	Internet Explorer 10 (32 bit) or later/Windows	
General		
Power Input	DC 12V~	48V ±10%
Power Management	Programmable delay on/off relative	to ignition or other switched voltage
Surge Protection	Supp	ported
Power Consumption	Max. 149 W Without HDD/SSD and PoE: Max. 15 W (Heater off), Max. 45 W (Heater on)	
Dimensions	284 (W) x 230 ((D) x 90 (H) mm
Weight	4.06 kg (wi	ithout HDD)

Model	NV9311P	NV9411P
	H.265 8-CH Mobile NVR	H.265 16-CH Mobile NVR
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)	
Humidity	0 ~ 95%	
Safety Certifications	CE, FCC, VCCI, C-Tick, EN50155, E-mark, EN61373, UL, CB, EN45545, EN50121-3-2/EN50121-4, M STD-810G	





