



# NS9521

H.265 Desktop 32-CH VAST 2 Station

Up to 64CH • Smart Search II • Smart VCA Event • Cybersecurity Management Solution • LPR Solution Integration • Data Magnet

- Support H.265/H.264 Compression Technology
- 32CH, Expandable up to 64CH
- VIVOTEK VAST 2 CMS Inside
- Smart Search II: Powerful Search for Smart Motion Detection
- Smart VCA: AI Powered Video Analytics
- Cybersecurity Management Solution
- Multiple Fisheye Dewarp Modes
- 2.5D Visualization eMap
- Evidence Lock & Export
- Add-on Solutions: Failover, Transportation, Transaction and Data Magnet
- VIVOTEK License Plate Recognition Solution
- Slim Design and Easy HDD Installation



# Technical Specifications

## Device

Model	NS9521
OS	Embedded Windows 10
CPU	Intel CPU
Flash	64GB mSATA
RAM	4GB x2
Watchdog	Hardware + Software
Power Restoration	System restart automatically after power recovery

## Local Display

LiveView Display	32 Channels (up to 64CH by license purchasing) Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single layout display, full screen display Custom layout, layout rotation
Video Output	HDMI x1, Display Port x1, DVI x1
Display Resolution	HDMI: 4096x2160 DVI: 1920x1200 DP: 4096x2304
Dual Monitors	Supported
Camera Position	Change the view cell position on the Live View screens
Stream Application	Stream selection & auto stream size
Monitor Enhancement	E-Map Embedded Drag & Drop Remote I/O Control PiP (Digital Zoom) Instant Playback Video Display Mode (Aspect Ratio & Camera Information) Metadata Display (VCA, POS and Data Magnet)
Fisheye Dewarp	1Q, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, 1O8R and Fisheye Auto-Pan
PTZ/ePTZ Operation	Direction Control, Home, Zoom, Focus, Isis, Preset, Patrol (Group), Tracking, Pan, Stop, Speed, Wiper Blade Control

## Video

Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265
Graphic Decoder	Software decoding
Decoding Resolution	Up to 8192x8192
Decoding Capability	H.264: 1920x1080 @ 540 fps H.265: 1920x1080 @ 270 fps

## Audio

Audio Format	G.711, G.726, AMR, AAC
2-way Audio	Supported

## Record

Recording Time (sec.)	Pre-Record: 3-15 Post-Record: 10-60
Recording Stream	Single
Recording Throughput	400 Mbps
Recording Mode	Continuous, Event, Customized Schedule, Activity Adaptive Streaming
Recording Setting	Recycling time depends on the remaining storage space or the set number of days
Seamless Recording	Supported

## Storage & Backup

HDD Devices	Internal x2 (3.5") * HDD is purchased by separately.
HDD Max. Capacity	* Please refer to the HDD supported list on the VIVOTEK website.

Disk Management	Create, format and remove disk
Manual Backup	USB Dongle (FAT Format) NAS (SMB & CIFS)
Schedule Backup	NAS (SMB & CIFS)
<b>Playback (Local Display)</b>	
Playback Display	32 Channels (up to 64CH by license purchasing) (the max. number of monitors supported depends on the decoding capability of your system) Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single layout display, full screen display Custom layout, layout rotation
Playback Control	Play, Rewind, Pause, Stop, Next/Previous Frame, 1/64X ~ 64X Speed Control, Bookmark
Video Search	Calendar, Event, Alarm, Bookmark, Thumbnail, Smart Search II, Transaction (POS), Data Magnet, Log
Snapshot	BMP & JPEG
Video Clip Export	3GP & EXE
<b>Network</b>	
Ethernet	10/100/1000Mbps Ethernet (RJ-45) x2
Video Throughput for Remote Client	400 Mbps
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter
<b>Alarm Management</b>	
Alarm Period (sec.)	Max. 30
Alarm Filter	Time, Trigger Type (Camera/Substation/System), Status, Name, Trigger Source
Alarm Setting	Realtime System Notification Alarm Result Display by List or Thumbnail
Schedule Type	Continuous, schedule, manual
Camera Event	General: Motion detection, Camera DI, Camera DO, IR (Infrared), PIR (Passive infrared), Tampering Detection, Temperature, Camera Disconnected, Recording Error, Stop Recording, Video Loss (Video server only), SD Card Life Expectancy Detection, Audio Detection, Shock Detection Video Content Analysis: Intrusion Detection, Loitering Detection, Line Crossing Detection, Unattended Object Detection, Missing Object Detection, Face Detection, Crowd Detection, Zone Detection Trend Micro IoT Security: Brute force attack, cyberattack, quarantine event
Substation	ND Series NVR: Fan Status, Network Disconnected, Storage Failure, Storage Full, Number of remaining people, Brute force attack, Cyberattack, Quarantine event NR Series NVR: Network Disconnected, Storage Failure, Storage Full NV Series NVR: Abnormal G-sensor Motion, Speeding, GPS Disconnected
External Devices Event	DI/O (with I/O Box), TCP Message
Action	Start to record videos, Set DO status, Go to camera presets, Send HTTP requests, Send live streaming, Send email with snapshot of assigned camera(s), Go to E-Map, Sound the alarm and Add bookmark
Alarm State for Management	New, In Progress, False Alarm and Close
Alarm Result Export	.csv file
<b>eMap</b>	
Source	Import Picture & Folder
Device	Camera, external DI/O
Marked	Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playback
Event Notification	One or More Live Streaming
<b>External Interface</b>	
USB Interface	Front: USB 2.0 x2 Back: USB 3.1 (type A) x2, USB 3.1 (type C) x2

Audio In/ Out	Front: Microphone audio jack Input x1 3.5 Line output audio jack x1 Back: Microphone audio jack Input x1 3.5 Line output audio jack x1
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## System

POS Integration	Supported
UPS Integration	Supported
Camera Integration	ONVIF Profile S
I/O Box Integration	Advantech ADAM-6000 Series CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212
User Management	Authentication: Basic Account / Windows AD Account User Account: 1024 User Level: Administrator / Customized User
Log	Operation, system and event log
Date & Time	Sync server

## Advanced Features

VCA Counting Solution	Supported
VCA Event Search	Smart VCA, Smart 360 VCA
Smart Search	Smart Search I & Smart Search II
Cybersecurity Management	Supported
Failover	Supported

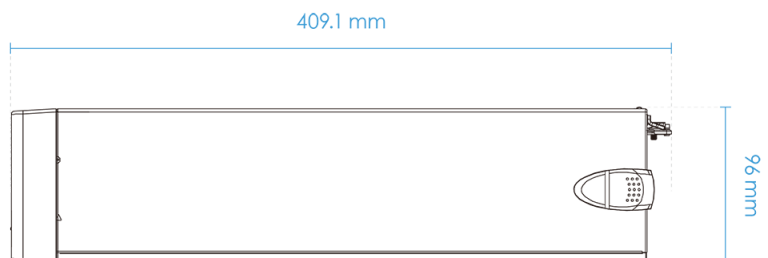
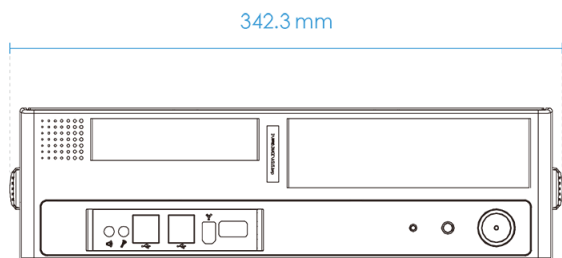
## Remote Client

Software AP	Shepherd, VAST 2
Mobile/Tablet App	iViewer (iOS/Android)
Web Browser	Internet Explorer 9 (32 bit) or above

## General

Power Input	100~220V AC
Power Consumption	Max. 250 W
Dimensions	342.3 (H) x 96 (W) x 409.1 (D) mm
Weight	5.15 kg
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Humidity	0 ~ 95%
Safety Certifications	CE, FCC, VCCI, C-Tick, UL, CB
Warranty	36 months

## Dimensions

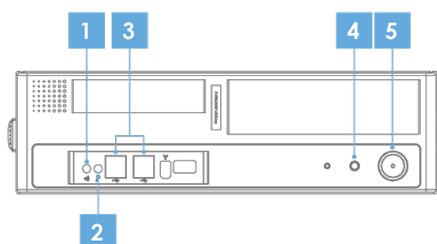


## Ordering Information

Model	Description	P/N
NS9521	VAST 2 Station, 32CH	100230100G

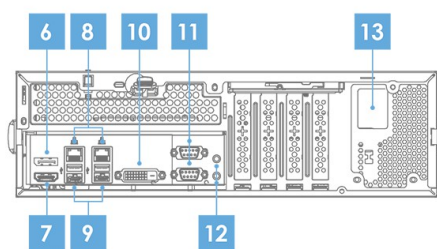
## Mechanical Information

### • Front View



- |   |                |   |                   |
|---|----------------|---|-------------------|
| 1 | Audio Line Out | 4 | HDD LED Indicator |
| 2 | Audio Mic In   | 5 | Power Switch      |
| 3 | USB2.0         |   |                   |

### • Rear View



- |   |                         |    |                         |
|---|-------------------------|----|-------------------------|
| 6 | DP Port                 | 10 | DVI-D                   |
| 7 | HDMI Port               | 11 | COM 1 / COM 2           |
| 8 | LAN 1 / LAN 2           | 12 | Audio Line Out / Mic In |
| 9 | USB 3.1 Type A / Type C | 13 | 100-240V AC Power Input |