



V Series

NR9581-V3

128-CH, 8-Bay VSS Pro
Recording Server



Technical Specifications

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Descriptions	H.265 2U 32-CH 8bay NVR
Device	
OS	Embedded Windows 11
Watchdog	Hardware + Software
Power Restoration	System Restart Automatically after Power Recovery
Local Display	
LiveView Display	32 Channels (Up to 128CH by license purchasing) Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+3, 1+5, 1+7, 1+9, 1+12, 1+16, 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, DVI x1, VGA x1, DisplayPort x1
Display Resolution	HDMI: 4096x2160 DP: 7680x4320 DVI: 1920x1200 VGA: 1920x1200
Dual Monitor	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, Data Magnet)
Fisheye Dewarp	10, 1P, 1R, 103R, 4R, 2P, 4R Pro, 108R

PTZ/ePTZ Operation	Home, Preset, Tracking, Patrol, Auto Pan, Auto Focus, Manual Focus, Focus Speed, Zoom Speed
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Video	
Video Format	MJPEG, MPEG4, H.264, H.265
Graphic Decoder	Software decoding
Decoding Resolution	Up to 7680x2560
Decoding Capability	H.264: 1920x1080 @ 360 fps H.265: 1920x1080 @ 180 fps

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

Record	
Recording Time (sec.)	Pre-Record: 3 (Max. 15) Post-Record: 10 (Max. 60)
Recording Stream	Single
Recording Throughput	512 Mbps
Recording Mode	Continuous, Event, Customized Schedule
Recording Setting	Recycling time depends on the remaining storage space or the set number of days
Watermark	Supported
Recording Data Encryption	Supported
Seamless Recording	Supported

Storage & Backup	
HDD Devices	Hot-Swappable Tray x8 (HDD is purchased separately)
HDD Max. Capacity	Please refer to HDD supported list on VIVOTEK website
RAID	RAID 0, 1, 5, 6, 50, 10, 60
Disk Management	Create, Format and Remove Disk
Manual Backup	USB pen drive (FAT Format) NAS (SMB & CIFS)
Schedule Backup	NAS (SMB & CIFS)

Playback (Local Display)	
Playback Display	32 Channels (Up to 128CH 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
Playback Control	1/64X ~ 64X speed control, next/previous frame, pause, play, rewind, stop

Video Search	Calendar Event Alarm Bookmark Thumbnail Smart Search II Data Magnet Log Deep Search
Snapshot	JPEG, PNG
Video Clip Export	3GP

Network	
Ethernet	2.5 Gigabit LAN x2
Video Throughput for Remote Client	650 Mbps
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, SNMP, iSCSI

Alarm Management	
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
Camera Event	General: Motion detection, 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, camera DI/DO, PPTZ (Panoramic PTZ) Smart VCA: Line crossing detection, Intrusion detection, Loitering detection, Face detection, Missing object detection, Unattended object detection, Crowd detection, Zone detection, Running detection, Parking violation detection, Restricted zone detection, Smart tracking Trend Micro IoT Security: Brute force attack, Cyber attack, Quarantine Counting Camera: Number of remaining people
Substation	NV Series NVR: Abnormal G-sensor motion, Speeding, GPS disconnected, Storage failure, Storage full, Network disconnected ND Series NVR: Fan status, Network disconnected, Storage failure, Storage full, Brute force attack, Cyber attack, quarantine NR Series NVR: Network disconnected, Storage failure, Storage full
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

eMap	
Source	BMP, GIF, JPG, PNG, SVG
Device	Camera, DI/DO (Camera, NVR, external), regional map
Marked	Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playback
Event Notification	One or More Live Streaming

External Interface	
USB Interface	Front USB 2.0 x2
	Back USB 2.0 x2 USB 3.2 x4
Audio In/ Out	Microphone audio jack Input x1 3.5 mm Line input audio jack x1 3.5 mm Line output audio jack x1 SPDIF out x1 7.1 HD support (surround out x1, CEN/LFE x1)

System	
POS Integration	ARCH
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: 4096 User-defined Role
Log	Operation System and Event log
Date & Time	Sync server

Advanced Features	
VCA Counting Solution	Supported
LPR Solution	Supported
VCA Event Search	Smart VCA
Smart Search	Smart Search I, Smart Search II
Deep Search	Supported
Cybersecurity Management	Supported
Failover	Supported (Switchable from standard mode starting with image version V4.0. Refer to user's manual for details.)

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

General	
Power Input	Redundant power 100~240V AC
Power Consumption	Max. 550 W
Redundant Power	Supported
80 Plus Certified	Platinum
Dimensions	647 (D) x 437 (W) x 89 (H) mm
Weight	15.8 kg (without HDD)

Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Humidity	5% ~ 95%
Safety Certifications	CE, FCC, VCCI, C-Tick, UL, CB, BSMI, BIS