



NR9581-V3

32-CH 8 Bay Recording Server

H.265 • VSS Pro Inside • ONVIF • Dual LAN • Fisheye Dewarp • RAID • Redundant Power

Technical Specifications

Device

Model	NR9581-V3
OS	Embedded Windows 10
Watchdog	Hardware + Software
Power Restoration	System Restart Automatically after Power Recovery

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+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, VGA 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	1O, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, 1O8R
PTZ/ePTZ Operation	Home, preset, patrol, auto pan, auto focus, manual focus, focus speed, zoom speed, tracking

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
2-way Audio	Supported

Record

Recording Time (sec.)	Pre-Record: 3-15 Post-Record: 10-60
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 by separately)
HDD Max. Capacity	Please refer to HDD supported list on VIVOTEK website
RAID	RAID 0, 1, 5, 6, 10, 50, 60
Disk Management	Create, Format and Remove Disk
Manual Backup	USB Dongle (FAT Format) NAS (SMB & CIFS)
Schedule Backup	NAS (SMB & CIFS)

Playback

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

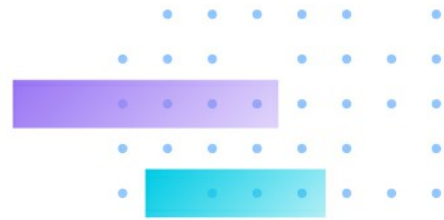
Ethernet	2.5 Gigabit LAN x2
Video Throughput for Remote Client	650 Mbps
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, iSCSI, SNMP

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	<p>General: Audio detection, camera DI/DO, camera disconnected, IR (Infrared), Motion detection, PIR(Passive infrared), PPTZ (Panoramic PTZ), Recording error, SD card life expectancy detection, Shock detection, Stop recording, Tampering detection, Temperature, Video loss (Video server only)</p> <p>Smart VCA: Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection, Running detection, Parking violation detection, Restricted zone detection, Smart tracking, Zone detection Trend Micro IoT Security :</p> <p>Brute force attack, Cyber attack, Quarantine</p> <p>Counting Camera: Number of remaining people</p>
Substation	<p>NV Series NVR: Storage failure, Storage full, Network disconnected, Abnormal g-sensor motion, speeding, GPS disconnected</p> <p>ND Series NVR: Storage failure, storage full, network disconnected, fan status, brute force attack, cyberattack, quarantine</p> <p>NR Series NVR: Storage failure, Storage full, Network disconnected</p>
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	<p>Front USB2.0 x 2</p> <p>Back USB 2.0 x 2 USB 3.2 x 4</p>
Audio In/ Out	<p>Microphone audio jack Input x1 3.5 Line input audio jack x1 3.5 Line output audio jack x1 SPDIF out x1 7.1 HD support (surround out x 1, CEN/LFE x 1)</p>
System	
POS Integration	ARCH
UPS Integration	Supported
Camera Integration	ONVIF Profile S
I/O Box Integration	<p>Adv antech ADAM-6000 Series CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212</p>
User Management	<p>Authentication: Basic Account / Windows AD Account User-defined Role User Account: 4096</p>
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



Remote Client

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

General

Power Input	Redundant power 100~220V AC
Power Consumption	Max. 550 W
Redundant Power	Supported
80 Plus Certified	Platinum
Dimensions	89 (H) x 437 (W) x 647 (D) 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

