



# NR9581

H.265 2U 32-CH 8bay NVR

H.265 • VAST Inside • 32 Channel • 8x HDD • ONVIF • Dual LAN • Fisheye Dewarp  
• Local Display • RAID • Redundant Power

- H.265/H.264 Compression Technology
- 32-CH Recording, 1+31 Display
- Support HDMI, Display Port, VGA and DVI Simultaneous Output
- 8 Hot-Swappable HDD Bays
- Support RAID 0/1/5/6/10 Storage
- Max Support up to 80TB HDD
- Redundant Power
- VIVOTEK VAST Inside (LiveClient/Playback)
- Dual Lan Giga Network Ports
- ONVIF Open Platform



# Technical Specifications

## Device

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Model             | NR9581                                                                                                          |
| OS                | Embedded Windows 7<br>(*Please refer to VIVOTEK Website for more information about Win7/Win10 embedded upgrade) |
| CPU               | Intel CPU                                                                                                       |
| Flash             | 64G SATA DOM                                                                                                    |
| RAM               | 8GB                                                                                                             |
| Watchdog          | Hardware + Software                                                                                             |
| Power Restoration | System Restart Automatically after Power Recovery                                                               |

## Local Display

|                     |                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LiveView Display    | 32 Channels<br>Multi-Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 5x5, 1+31,8x8, 1P+2, 1P+6, 1P+8, 2V, 3V, 4V, 2V+3<br>Single Layout Display, Full Screen Display, Sequential Display                                                                                             |
| Video Output        | HDMI x1, Display Port x1, VGA x1, DVI x1                                                                                                                                                                                                                                            |
| Display Resolution  | HDMI: 3200x2000<br>DP: 3200x2000<br>VGA/DVI: 1920x1200                                                                                                                                                                                                                              |
| Dual Monitor        | Supported                                                                                                                                                                                                                                                                           |
| Camera Position     | Change the viewcell position on the Live View screens                                                                                                                                                                                                                               |
| Stream Application  | Stream Selection & Auto Stream Size                                                                                                                                                                                                                                                 |
| Monitor Enhancement | Drag & Drop, Remote I/O Control, PiP (Digital Zoom), Instant Replay, De-interlace, Video Display Mode (Aspect Ratio, Hide Borders, Keep Top/Down Borders), Video Enhancement (Basic Mode: Brightness, Contrast, Saturation, Hue; Intelligent Mode: Defog, Rain, Snow, Fire / Smoke) |
| Fisheye Dewarp      | 10, 1P, 1R, 1P2R, 1P3R, 1O3R, 1O8R, 2P, 4R, 4R Pro                                                                                                                                                                                                                                  |
| PTZ Operation       | Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop, Speed                                                                                                                                                                                                |

## Video

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Video Format        | H.265, H.264 SVC, H.264 AVC, MPEG4, MJPEG                |
| Graphic Decoder     | Software decoding                                        |
| Decoding Resolution | Up to 8192x8192                                          |
| Decoding Capability | H.264: 1920x1080 @ 300 fps<br>H.265: 1920x1080 @ 150 fps |

## Audio

|              |                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------|
| Audio Format | G.711, G.726, AMR, AAC                                                                          |
| Audio In/Out | Microphone audio jack Input x1<br>3.5 Line input audio jack x1<br>3.5 Line output audio jack x1 |
| 2-way Audio  | Supported                                                                                       |

## Record

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Recording Time (sec.) | Pre-Record: 3-15<br>Post-Record: 10-60                           |
| Recording Stream      | Single/Multiple                                                  |
| Recording Throughput  | 512 Mbps                                                         |
| Recording Mode        | Continuous, Schedule, Manual, Event, Activity Adaptive Streaming |
| Recording Setting     | Recycle (unit: Size or Day)                                      |
| Seamless Recording    | Supported                                                        |

## Storage & Backup

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| HDD Devices       | Hot-Swappable Tray x8<br>*HDD is purchased by separately.       |
| HDD Max. Capacity | *Please refer to the HDD supported list on the VIVOTEK website. |
| RAID              | RAID 0, 1, 5, 6, 10                                             |
| Disk Management   | Create, Format and Remove Disk                                  |

|                                    |                                                                                                                                                                                                                                                                             |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Clip Export                  | USB Dongle (FAT Format)<br>NAS (SMB & CIFS)                                                                                                                                                                                                                                 |
| Schedule Backup                    | NAS (SMB & CIFS)                                                                                                                                                                                                                                                            |
| <b>Playback</b>                    |                                                                                                                                                                                                                                                                             |
| Playback Display                   | 16 Channels<br>Multi-Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 2V, 3V, 4V, 2V+3<br>Single Layout Display, Full Screen Display, Sequential Display                                                                                                                      |
| Playback Control                   | Play, rewind, pause, stop, next/previous video start, next/previous frame, 1/8X ~ 64X<br>speed control, bookmark                                                                                                                                                            |
| Video Search                       | Browsing, date & time (fast), event, bookmark, alarm, log, timeline, timeline scale                                                                                                                                                                                         |
| Snapshot                           | BMP & JPEG                                                                                                                                                                                                                                                                  |
| Video Clip Export                  | AVI, 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,<br>DDNS, IP Filter                                                                                                                                                                               |
| <b>Alarm Management</b>            |                                                                                                                                                                                                                                                                             |
| Alarm Period (sec.)                | Max. 30                                                                                                                                                                                                                                                                     |
| Alarm Filter                       | Name, time, source, event type, state                                                                                                                                                                                                                                       |
| Alarm Setting                      | LiveView alarm notification: fixed & popup, alert sound                                                                                                                                                                                                                     |
| Schedule Type                      | Continuous, schedule, manual                                                                                                                                                                                                                                                |
| Camera Event                       | Motion, DI/O, video lost/restore, PIR, tampering, temperature, IR, PPTZ, line crossing<br>detection, loitering detection, field detection, audio detection, SD card life expectancy<br>detection, shock detection, ONVIF motion event, ONVIF DI/O, ONVIF video lost/restore |
| Camera Status                      | Connection status, recording status, recording error                                                                                                                                                                                                                        |
| Substation                         | Substation connection status, substation DI/DO trigger*<br>*(ND series NVR)                                                                                                                                                                                                 |
| Storage Status                     | Storage connection status, storage capacity status                                                                                                                                                                                                                          |
| Station Status                     | License status, network status, virtual memory status                                                                                                                                                                                                                       |
| External Devices Event             | DI/O (with I/O box)                                                                                                                                                                                                                                                         |
| Action                             | Email, start recording, move to preset location, set DO, GSM short message, HTTP &<br>client notification                                                                                                                                                                   |
| Alarm State for Management         | New, assigned, in progress, resolved, closed, later, reject, ignore                                                                                                                                                                                                         |
| Alarm Result Export                | .csv File                                                                                                                                                                                                                                                                   |
| <b>eMap</b>                        |                                                                                                                                                                                                                                                                             |
| Source                             | Import picture                                                                                                                                                                                                                                                              |
| Device                             | Camera, external DI/O, substation camera, substation DI/O*<br>*(ND series NVR)                                                                                                                                                                                              |
| Marked                             | Add, remove, direction control, PTZ control & indicator LiveView                                                                                                                                                                                                            |
| Event Notification                 | Event icon light flash, show live streaming on eMap                                                                                                                                                                                                                         |
| <b>External Interface</b>          |                                                                                                                                                                                                                                                                             |
| USB                                | USB 2.0 x4<br>USB 3.0 x2                                                                                                                                                                                                                                                    |
| Audio                              | Microphone audio jack Input x1<br>3.5 Line input audio jack x1<br>3.5 Line output audio jack x1                                                                                                                                                                             |
| <b>System</b>                      |                                                                                                                                                                                                                                                                             |
| POS Integration                    | Supported                                                                                                                                                                                                                                                                   |
| UPS Integration                    | Supported                                                                                                                                                                                                                                                                   |
| Camera Integration                 | ONVIF core spec 2.2 or later                                                                                                                                                                                                                                                |
| I/O Box Integration                | Advantech ADAM-6000 Series<br>CHIYU CYT-133SC                                                                                                                                                                                                                               |

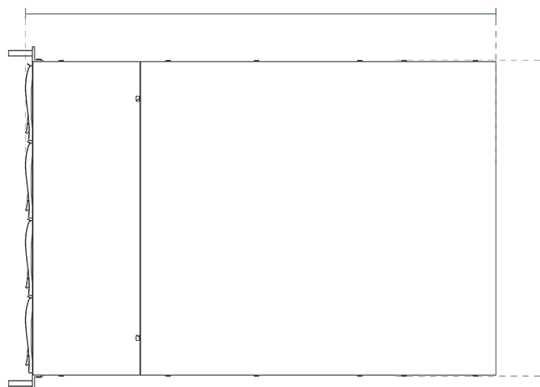
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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| User Management          | Authentication: Basic Account / Windows AD Account<br>User Account: 1024<br>User Account Time Limit: No limitation, By Time & By Day<br>User Account Time Schedule: Weekly Setting<br>User Level: Administrator / Power User / User / Operation / Guest |
| Log                      | Operation, system and event log                                                                                                                                                                                                                         |
| Date & Time              | Sync server                                                                                                                                                                                                                                             |
| <b>Advanced Features</b> |                                                                                                                                                                                                                                                         |
| VCA Counting Solution    | Supported                                                                                                                                                                                                                                               |
| Failover                 | Supported                                                                                                                                                                                                                                               |
| <b>Remote Client</b>     |                                                                                                                                                                                                                                                         |
| Software AP              | Shepherd, VAST                                                                                                                                                                                                                                          |
| Mobile/Tablet App        | iViewer (iOS/Android)                                                                                                                                                                                                                                   |
| Web Browser              | Internet Explorer 9 (32 bit) or above                                                                                                                                                                                                                   |
| <b>General</b>           |                                                                                                                                                                                                                                                         |
| Power Input              | Redundant power 100~220V AC                                                                                                                                                                                                                             |
| Power Consumption        | Max. 740 W                                                                                                                                                                                                                                              |
| Redundant Power          | Supported                                                                                                                                                                                                                                               |
| 80 Plus Certified        | Platinum                                                                                                                                                                                                                                                |
| Dimensions               | 89 (H) x 437 (W) x 648 (D) mm                                                                                                                                                                                                                           |
| Weight                   | 27 kg (without HDD)                                                                                                                                                                                                                                     |
| Operating Temperature    | 5°C ~ 35°C (41°F ~ 95°F)                                                                                                                                                                                                                                |
| Humidity                 | 0 ~ 95%                                                                                                                                                                                                                                                 |
| Safety Certifications    | CE, LVD, FCC, VCCI, C-Tick, UL                                                                                                                                                                                                                          |
| Warranty                 | 36 months                                                                                                                                                                                                                                               |

## Dimensions

89 mm



648 mm



437 mm