

# NR9681

## H.265 2U 64-CH NVR



H.265 · VAST Inside · 64 Channel · 8x HDD · ONVIF · Dual LAN · Fisheye Dewarp · Local Display · RAID · Redundant Power

VIVOTEK's NR9681 is a full-featured high-performance H.265 NVR. Equipped with a 2U 64-CH 8 Bay Rackmount network appliance, standard RAID capability and H.265 video codec, the total storage capacity of the NVR also endows the NR9681 with scalability and flexibility, making it perfect for large-scale transport or industrial applications as well as public spaces such as campuses.

The NR9681's 8 hard-drive bay design provides for a storage capacity of up to 48TBs, offering greater than 30% ~ 50% more recording capacity than systems employing H.264 compression. This advance affords users larger storage space for longer durations of video recording. The RAID 0/1/5/6/10 configuration provides further data security in the rare event of a hard drive failure. Further, equipping the NR9681 with a DOM system has resulted in reliability and stability beyond the reach of other NVRs. Meanwhile, the NR9681 supports VIVOTEK's fisheye network camera "Fisheye Dewarp" function, which provides multiple de-warping modes in live view and playback, ensuring the correct angle of video view and detailed information for flexible usage. This ingenious NVR is also equipped to carry out remote management with a full range of the server/client structures and thus constitutes a robust system for diverse applications.

Moreover, the NR9681 features well-built ONVIF compliance and scalable configuration, with VAST CMS empowering users to set up and manage advanced IP surveillance systems with ease. The NR9681 also supports both remote and mobile access via iViewer app, for both iOS and Android handheld devices. The NR9681 represents a great advance in the field, providing users an open, intelligent and seamless NVR to meet market demands.

### Key Features

- H.265/H.264 Compression Technology
- 64-CH Recording, 64 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 48TB HDD
- Redundant Power
- VIVOTEK VAST Inside (LiveClient/Playback)
- Dual Lan Giga Network Ports
- ONVIF Open Platform
- VIVOTEK Camera Configuration and VAST CMS Integrated
- Multiple Fisheye Dewarp Support
- Multiple Video Search Modes



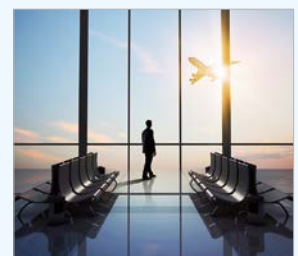
Campus



Hospital



Industry



Transportation

## Hardware Information

|                           |  |
|---------------------------|--|
| Model                     | NR9681   |
| <b>System</b>             |  |
| OS                        | Embedded Windows   |
| CPU                       | Intel Core i5  |
| Flash                     | 64G SATA DOM   |
| RAM                       | 8GB  |
| Watchdog                  | Hardware + Software  |
| Power Restoration         | System Restart Automatically after Power Recovery  |
| <b>Storage</b>            |  |
| HDD Devices               | Hot-Swappable Tray x8  |
| HDD Max. Capacity         | 6TB x8   |
| Disk Management           | Create, Format and Remove Disk<br>RAID 0, 1, 5, 6, 10  |
| <b>Video &amp; Audio</b>  |  |
| Video Output              | HDMI x1, Display Port x1, VGA x1, DVI x1   |
| Resolution                | HDMI: 4096x2304<br>DP: 3200x2000<br>VGA/DVI: 1920x1200   |
| Graphics Decoder          | Hardware decoding<br>H.265/H.264:<br>2560x1920 @ 30 fps (2-CH)<br>1920x1080 @ 120 fps (8-CH)<br>1280x720 @ 240 fps (16-CH)<br>1280x720 @ 480 fps (32-CH)<br>1280x720 @ 480 fps (64-CH) |
| Decoding Capacity         |  |
| Camera Position           | Change the viewcell position on the Live View screens  |
| <b>External Interface</b> |  |
| USB Interface             | 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>Network</b>            |  |

|                               |   |
|-------------------------------|---|
| Network Interface             | 10/100/1000Mbps Ethernet (RJ-45) x2   |
| Protocols                     | IPv4,TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter |
| <b>Power</b>                  |   |
| Power Input                   | Redundant Power 100~220V AC   |
| Power Consumption             | Max. 740 W  |
| <b>LED Indicator</b>          |   |
| LED Indicator                 | Power, HDD, Net1, Net2, Overheat, Power fail  |
| <b>Mechanic</b>               |   |
| Form Factor                   | 2U Rackmount  |
| Operation Buttons             | Power, Reset  |
| 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%   |
| <b>General</b>                |   |
| Safety Certifications         | CE, LVD, FCC, VCCI, C-Tick, UL  |
| Warranty                      | 36 months   |
| <b>Client PC Requirements</b> |   |
| Operating System              | Microsoft Windows 8, 7, Vista, XP<br>Microsoft Windows Server 2012, 2008, 2003, 2000      |
| CPU                           | Intel Celeron or above  |
| Memory                        | 2 GB or above   |
| Ethernet                      | 10/100Mbps  |
| Display Resolution            | 1024x768 pixels or above  |
| Web Browser                   | Internet Explorer 11/10/9 (32 bit)  |
| Software AP                   | Installation Wizard 2, Shepherd, VAST   |
| Mobile/Tablet App             | iViewer (iOS/Android)   |
| <b>Accessories</b>            |   |
| Others                        | Power Cord, Quick Installation Guide, 8x H.D.D. Tray, 1x USB Mouse                        |

## Software Information

|                                 |  |
|---------------------------------|--|
| <b>Record</b>                   |  |
| Maximum Channel                 | 64   |
| Record Throughput (MB)          | 512 Mbps   |
| Network Throughput (MB)         | 400 Mbps   |
| Audio Format                    | G.711, G.726, AMR, AAC   |
| Video Format                    | MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265  |
| Video Resolution                | VGA, 1MP, 2MP, 3MP, 5MP & 9MP Camera   |
| Recording Time (sec.)           | Pre-Record: 3 ~ 15<br>Post-Record: 10 ~ 60   |
| Recording Stream                | Single   |
| Recording Mode                  | Continuous, Schedule, Manual, Event, Activity Adaptive Streaming   |
| Recording Setting               | Recycle (unit: Size or Day)  |
| Recording Path                  | Local Path or Network Path   |
| Record Video Format             | 3GP  |
| <b>LiveView (Local Display)</b> |  |
| Stream Application              | Stream Selection & Auto Stream Size<br>64-Channel (with Dual Monitors)<br>Multi Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 5x5, 1+31, 1P+2, 1P+6, 1P+8, 2V, 3V, 4V, 2V+3<br>Single Layout Display, Full Screen Display, Sequential Display   |
| LiveView Display                |  |
| 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), Fisheye Dewarp (Regular: 10, 1P, 1R, 1O3R, 4R; Wall Mount: 1P2R, 1P3R; Ceiling/Floor Mount: 2P, 4R Pro, 1O8R), Video Enhancement (Basic Mode: Brightness, Contrast, Saturation, Hue; Intelligent Mode: Defog, Rain, Snow, Fire / Smoke) |
| PTZ Control                     | Panel Control & Mouse Click Control  |
| PTZ Operation                   | Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop, Speed   |
| <b>Playback (Local Display)</b> |  |
| Playback Display                | 16 Channels<br>Multi Layout Display: 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 Speed Control, Bookmark  |
| Video Search                    | Browsing, Date & Time (Fast), Event, Bookmark, Alarm, Log, Timeline, Timeline Scale  |
| Monitor Enhancement             | Drag & Drop, PiP (Digital Zoom), De-interlace, Video Display Mode (Aspect Ratio, Hide Borders, Keep Top/Down Borders), Fisheye Dewarp (Regular: 10, 1P, 1R, 1O3R, 4R; Wall Mount: 1P2R, 1P3R; Ceiling/Floor Mount: 2P, 4R Pro, 1O8R), Video Enhancement (Basic Mode: Brightness, Contrast, Saturation, Hue; Intelligent Mode: Defog, Rain, Snow, Fire/Smoke)                                       |
| Snapshot                        | JPEG & BMP   |
| Video Clip Export               | AVI, 3GP & EXE   |
| <b>LiveView (Remote)</b>        |  |
| LiveView Display                | 32 Channels<br>Multi Layout display: 1x1, 2x2, 3x3, 4x4, 5x5, 1+5, 1+12, 1+31<br>Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)   |
| Monitor Enhancement             |  |
| PTZ Control                     | Panel Control  |
| PTZ Operation                   | Direction Control, Home, Zoom, Preset  |
| Snapshot                        | JPEG   |
| <b>Playback (Remote)</b>        |  |
| Playback Display                | 1 Channel<br>Multi Layout display: 1x1<br>Regular (Play, Pause, Stop), Speed Control, Timeline, Timeline Scale   |
| Playback Control                |  |
| Monitor Enhancement             | Drag & Drop, Audio Control, PiP Control, Fisheye Dewarp (10, 1P, 1R)   |
| Snapshot                        | JPEG   |
| <b>Alarm Management</b>         |  |
| Schedule Type                   | Continuous, Schedule, Manual   |

|                                |   |
|--------------------------------|---|
| Camera Event                   | Motion, DI/O, Video Lost/Restore, PIR, Tampering, Temperature, IR, Line Crossing Detection, Loitering Detection, Field Detection  |
| Camera Status                  | Connection Status, Recording Status, Recording Error  |
| Substation                     | Substation Connection Status  |
| Storage Status                 | Storage Connection Status, Storage Capacity Status  |
| Station Status                 | License Status, Network Status, Virtual Memory Status   |
| Action                         | Email, Start Recording, Set DO, GSM Short Message, HTTP & Client Notification   |
| Recording Time (sec.)          | Max. 30   |
| <b>Backup</b>                  |   |
| Manual                         | USB Dongle (FAT Format)<br>NAS (SMB & CIFS)   |
| <b>System</b>                  |   |
| User Management                | Authentication: Basic Account / Windows AD Account<br>User Account: 1024<br>User Account Time Limit: No limitation<br>User Level: Administrator / Power User / User / Operation / Guest |
| Log                            | Operation, System and Event Log   |
| Date&Time                      | Sync Server   |
| Firmware                       | Manual update   |
| Restore Default                | Supported   |
| Backup/Restore (Configuration) | Supported   |
| Language                       | Czech, English, French, German, Italian, Japanese, Persian, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese   |
| <b>Camera Intergration</b>     |   |
| Insert Camera                  | Manual, Search  |
| Video (Media) Setting          | Compression, Resolution, FPS, Video Quality   |
| Audio Setting                  | Codec, Bitrate  |
| PTZ Control                    | Panel Control & Mouse Click Control   |
| PTZ Operation                  | Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop, Speed  |
| Motion Detection               | Supported   |
| ONVIF Core Spec                | Version 2.2 or above (By Project)   |
| ONVIF Stream                   | Video (H.264, MPEG4 & MJPEG) & Audio (G.711, One Way)   |
| ONVIF Recording                | Continuous, Schedule, Manual  |
| ONVIF Control                  | PTZ Control (Up, Down, Left, Right & Zoom In/Out)   |
| ONVIF Discover                 | Discover the other brand camera through "Insert Camera & Batch Insert"  |
| <b>Device Intergration</b>     |   |
| UPS                            | Windows UPS Compatible<br>VIVOTEK USB Joystick  |
| Joystick                       | All Windows® Compatible USB Joystick  |
| I/O Box                        | Advantech ADAM-6000   |
| Switch                         | VIVOTEK VivoCam PoE Switch (AW-GEV Series)  |

## Dimensions

