



ND8212W

4-CH Embedded Wi-Fi NVR



H.264 • 1x HDD • HDMI • Wi-Fi • VIVOCLOUD • ONVIF •
Support 4CH Wi-Fi + 4CH Wired

VIVOTEK's ND8212W is a H.264 4-CH Linux-based standalone Wi-Fi NVR that supports a single 3.5" HDD up to 6TB. The ND8212W supports remote access via VIVOTEK's VIVOCLOUD and iViewer apps for both iOS and Android mobile devices, enabling users access to their video anytime, anywhere. The VIVOCLOUD app provides instant push notification and direct video playback functionalities when triggered by an alarm notification, providing seamless security for small-sized video surveillance applications.

Furthermore, the ND8212W is fully integrated with VIVOTEK's VAST/VAST 2 VMS, so users can enjoy the easy-to-use IP surveillance system to protect lives and property more efficiently. With a compact size and fan-less design, the ND8212W is ideal for any small-scale video surveillance installation.

Key Features

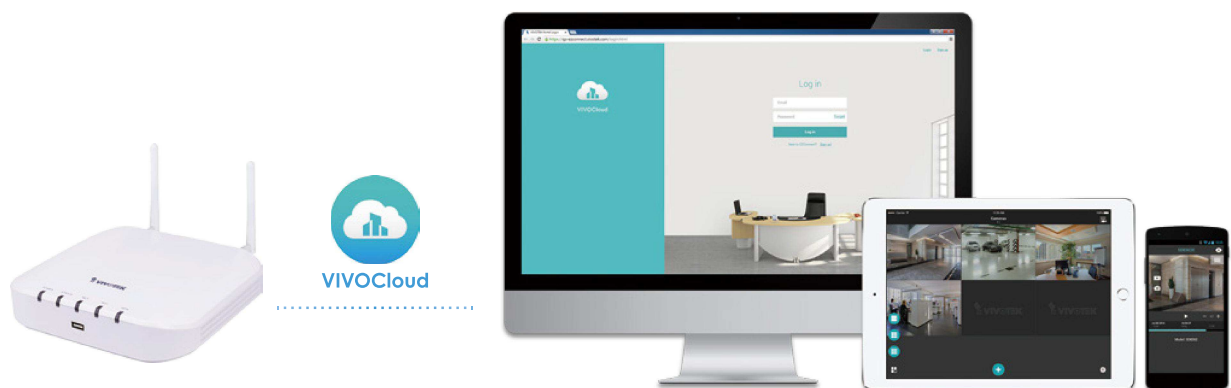
- H.264 Compression Technology
- Up to 4CH Wi-Fi + 4CH Wired IP Camera Input
- HDMI Video Output up to 4K Resolution
- 1 x 3.5" SATA HDD up to 6TB
- Up to 8MP Camera Liveview and Playback
- VIVOCLOUD App & Portal for 24/7 Viewing
- Easy Connection with IP Cameras and Quick Auto Setup
- Instant Playback Fisheye Dewarp
- 2.4Ghz 802.11 b/g/n Wi-Fi Connection
- ONVIF Compliance (Project Support Function)
- Compact Size with Fanless Design

Highlight Features

VIVOCloud App & Portal for 24/7 Viewing

The free VIVOCloud app makes surveillance lightweight and portable, ensuring efficient operation. The latest P2P technology makes remote access even more convenient, by simply scanning the QR-code and installing the app, users can view live streams and play recorded clips

with the intuitive interface anytime, anywhere. Armed with the Push Notification function, users will directly get an alert message on their Android/iOS mobile device and directly playback the video to check for any suspicious activity.



Easy Connection with IP Cameras and Quick Auto Setup

In order to provide users a highly intuitive experience, WPS allows for the IP cameras' positions and connects to the NVR without entering long passphrases. Auto Setup Wizard then conveniently sets up a centralized configuration to reduce connection times to within 4 minutes.

WPS connects to the "NVR and IP Cameras" versus "Router and IP Cameras". It not only saves time up to 60%, but also greatly reduces the difficulty of the device's settings. Honest to say, users may not know what happens between the connection of the NVR and the router.



Highlight Features

Enjoy the Benefits of Wi-Fi

This next generation NVR supports up to 4 IP cameras via 2.4Ghz Wi-Fi connection.

- Easy installation without spending more huge cost and time.
- No drilling and network socket needed.
- Less potential damage and more aesthetically pleasing.
- Easily move or reposition after installed.



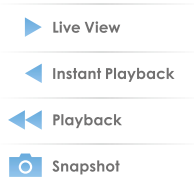
4 Display Modes for Fisheye Dewarp

VIVOTEK's fisheye camera is able to provide 360 degree coverage for wide, open areas, such as retail stores, offices and more. VIVOTEK's NVR offers four display modes for one fisheye network camera simultaneously:

LiveView, Playback, Snapshot and Instant Playback. With VIVOTEK's unique technology Instant Playback Dewarp, users can quickly review the image and react immediately.



Dewarp



4CH 1080P Resolution Video Storage over 40 Days

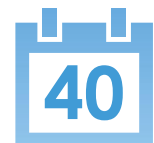
To provide both high-quality video and longer duration storage, the NVR allows users to effectively record 1080P resolution video continuously for up to 40 days without any extra monthly fee. This is the best choice to satisfy users' recording needs. (video throughput: 3M)



3.5" 6TB HDD



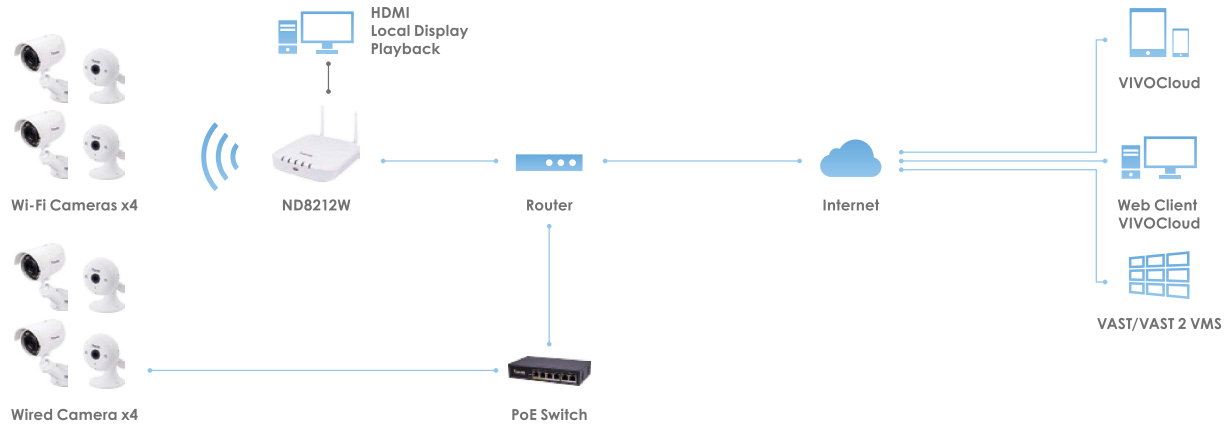
24/7



40 Days

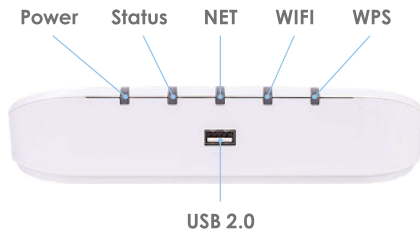
System Structure

Wi-Fi/Wired Cameras with WAN Solution

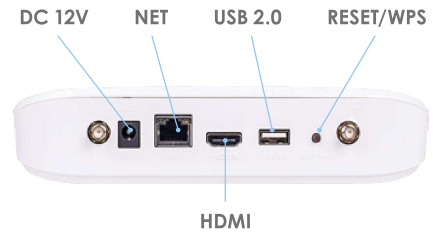


Mechanical Information

Front View



Back View



Technical Specifications

| Hardware Information | |
|----------------------|--------------------------------------------------------------------------------------------------------|
| Model | ND8212W |
| System | |
| OS | Embedded Linux |
| CPU | ARM Processor |
| Flash | 256 MB |
| RAM | 1GB |
| Watchdog | Hardware + Software |
| Power Restoration | System Restart Automatically after Power Recovery |
| Storage | |
| HDD Devices | Internal x1 |
| HDD Max. Capacity | 6TB x1 |
| Disk Management | Create, Format and Remove Disk HDD S.M.A.R.T |
| Video & Audio | |
| Video Output | HDMI x1 |
| Resolution | 3840x2160, 1920x1080, 1280x720 |
| Graphics Decoder | Hardware decoding |
| Decoding Capacity | H.264: 3840x2160 @ 30 fps (1CH) 1920x1080 @ 120 fps (4CH) 1280x720 @ 240 fps (8CH) |
| Camera Position | Change the viewcell position on the Live View screens |
| External Interface | |
| USB Interface | Front: 1 (USB 2.0) Back: 1 (USB 2.0) |
| Audio | HDMI Audio Output |
| Network | |
| Network Interface | 10/100Mbps Ethernet (RJ-45) x 1 |
| Wi-Fi | 2.4Ghz 802.11 b/g/n |
| Protocols | IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/ RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter, WPS |
| Power | |
| Power Input | DC 12V 3A |
| Power Consumption | Max. 15.6 W |
| LED Indicator | |
| LED Indicator | Power, Status, NET, Wi-Fi, WPS |
| Mechanic | |

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|-----------------------|------------------------------|
| Form Factor | Desktop |
| Operation Buttons | Reset/WPS (Back) |
| Dimensions | 198 (W) x 200 (D) x 47(H) mm |
| Weight | 560 g (without HDD) |
| Operating Temperature | 0°C ~ 40°C (32°F ~ 104°F) |
| Humidity | 0 ~ 95% |

General

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|-----------------------|--------------------------------------------|
| Safety Certifications | CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI |
| Warranty | 24 months |

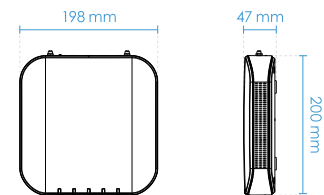
Client PC Requirements

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|--------------------|----------------------------------------------------------|
| Operating System | Microsoft Windows OS: XP/Vista/7/8/10/2008/2012 |
| CPU | Intel Celeron or above |
| Memory | 2 GB or above |
| Ethernet | 10/100Mbps |
| Display Resolution | 1024x768 pixels or above |
| Web Browser | Internet Explorer 10 (32 bit) or above |
| Software AP | Installation Wizard 2, Shepherd, VAST, VAST 2 |
| Mobile/Tablet App | VIVOCLOUD, iViewer (iOS) VIVOCLOUD, iViewer (Android) |
| Cloud Connection | VIVOCLOUD Portal |

Accessories

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| Others | Power adaptor, QIG, 8 x HDD screw, 2 x HDD Brackets, 1 x USB Mouse, 2 x 2.4Ghz Wi-Fi Antenna |
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Dimensions



Software Information

Record

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| Maximum Channel | Up to 8 (4CH Wi-Fi + 4CH Wired) |
| Record Throughput (MB) | 24 Mbps, default settings: 1920X1080 @ 32 fps (4CH) |
| Network Throughput (MB) | 40 Mbps |
| Audio Format | G.711, G.726 |

Technical Specifications

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|-----------------------|------------------------------------------------------------------|
| Video Format | MJPEG, H.264 |
| Video Resolution | UP to 8MP Camera |
| Recording Time (sec.) | Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300) |
| Recording Stream | Single |
| Recording Mode | Continuous, Schedule, Manual, Event, Activity Adaptive Streaming |
| Recording Setting | Recycle (unit: day) |
| Recording Path | Local Path |
| Record Video Format | 3GP |
| Watermark | Supported |
| Schedule Backup | Supported |

LiveView (Local Display)

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|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stream Application | Constant/Auto Adaptive Stream |
| LiveView Display | 8 Channels (4CH Wi-Fi + 4CH Wired) Multiple Layout Display: 1x1, 3V, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6 |
| Monitor Enhancement | OSD Display (NVR), OSD Display (Camera), Camera Information, Remote I/O Control, Event Notification, Aspect Ratio, Fisheye Dewarp (1O, 1P, 1R, 1O3R, 1P3R, 1O8R) |
| PTZ Control | Panel Control/Joystick |
| PTZ Operation | Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control |

Playback (Local Display)

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Playback Display | 4 Channels Multiple Layout Display: 1x1, 2x2, 1P+3, 1V+3 |
| Playback Control | Regular (Play, Pause, Stop), Rewind, Next/Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard) |
| Video Search | By Calendar, Date/Time, Alarm |
| Thumbnail Explorer (Storyboard) | Listing the thumbnail of recorded video (Max. 2 CH) |
| Monitor Enhancement | OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (1O, 1P, 1R, 1O3R, 1P3R, 1O8R) |
| Snapshot | JPEG |
| Video Clip Export | EXE |

LiveView (Remote)

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|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Stream Application | Stream Selection |
| Audio Capability | One Way |
| LiveView Display | 4 Channels Multi Layout Display: 1x1, 2x2, 1V+3 |
| Monitor Enhancement | OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (1O, 1P, 1R) |

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|---------------|---------------------------------------------------------------------------------|
| PTZ Control | Panel Control |
| PTZ Operation | Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control |

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| Snapshot | JPEG |
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Playback (Remote)

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|------------------|-------------------------------------------------------|
| Playback Display | 4 Channels Multiple Layout Display: 1x1, 2x2, 1V+3 |
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|------------------|------------------------------------------------------------------------------------------------------|
| Playback Control | Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline Scale, Bookmark |
|------------------|------------------------------------------------------------------------------------------------------|

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|---------------------|-----------------------------------------------------------------------------------------|
| Monitor Enhancement | OSD Display (NVR), Drag & Drop, Audio Control, PiP Control, Fisheye Dewarp (1O, 1P, 1R) |
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| Snapshot | JPEG |
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| Video Clip Export | EXE |
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Alarm Management

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| Schedule Type | Continuous, Schedule, Manual |
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| Event | Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnormal, Storage Full, Camera Network Loss |
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| Action | Record, Email (Text), Email (Snapshot), FTP, Buzzer, ePTZ Control (Go to Preset), Camera DO, VIVOCLOUD APP Notification |
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| Recording Time (sec.) | Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300) |
|-----------------------|-------------------------------------------------------|

Backup

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| Manual | USB Dongle (FAT Format), FTP Server Upload |
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System

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| User Management | User Account: 16 User Account Time Limit: 10 mins User Level: Administrator/Regular User User Feature Definition: By Camera |
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| Log | System, Recording, User, Error |
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| Date&Time | Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time |
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| Firmware | Manual update |
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| Restore Default | Supported |
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| Backup/Restore (Configuration) | Supported |
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| Language | Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese, Polish |
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Camera Integration

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| Insert Camera | Manual, Search |
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| Video (Media) Setting | Compression, Resolution, FPS, Video Quality |
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|---------------|---------------------------------|
| Image Setting | Image Display, Image Adjustment |
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Technical Specifications

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|------------------|--------------------------------------------------------------------|
| Motion Detection | Supported |
| ONVIF Core SPEC. | Version 2.2 or above (By Project) |
| ONVIF Stream | Video (H.264 & MJPEG) |
| ONVIF Recording | Continuous, Schedule, Manual |
| ONVIF Discover | Discover other brand camera through "Insert Camera & Batch Insert" |