





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
- \cdot 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

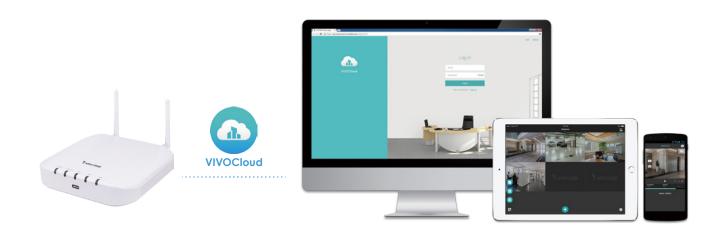
- · Easy Connection with IP Cameras and Quick Auto Setup
- · Instant Playback Fisheye Dewarp
- · 2.4Ghz 802.11 b/g/n Wi-Fi Connection
- · ONVIF Compliance (Project Support Function)
- · Compact Size with Fanless Design

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.









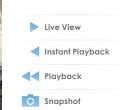
4 Display Modes for Fisheye Dewarp

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.







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)







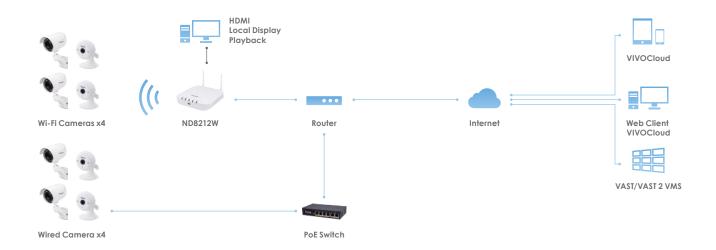
24/7



40 Days

System Structure

Wi-Fi/Wired Cameras with WAN Solution



Mechanical 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	

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		
Safety Certifications	CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI	
Warranty	24 months	
Client PC Requirements		
Client PC Requirement	s	
Operating System	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012	
-	Microsoft Windows OS:	
Operating System	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012	
Operating System CPU	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012 Intel Celeron or above	
Operating System CPU Memory	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012 Intel Celeron or above 2 GB or above	
Operating System CPU Memory Ethernet	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012 Intel Celeron or above 2 GB or above 10/100Mbps	
Operating System CPU Memory Ethernet Display Resolution	Microsoft Windows OS: XP/Vista/7/8/10/2008/2012 Intel Celeron or above 2 GB or above 10/100Mbps 1024x768 pixels or above	

VIVOCloud Portal

Dimensions

Others

Accessories

Cloud Connection





Power adaptor, QIG, 8 x HDD screw, $2 \times \text{HDD Brackets,1} \times \text{USB Mouse, } 2 \times 2.4 \text{Ghz}$ Wi-Fi Antenna

Software Information

Record

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

Video Format	MJPEG, H.264	PTZ Control	Panel Control
Video Resolution	UP to 8MP Camera	PTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control
Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)	Snapshot	JPEG
Recording Stream	Single	Playback (Remote)	
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming	Playback Display	4 Channels Multiple Layout Display: 1x1, 2x2, 1V+3
Recording Setting	Recycle (unit: day)	Playback Control	Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline
Recording Path	Local Path	ridyback comion	Scale, Bookmark
Record Video Format	3GP	Monitor Enhancement	OSD Display (NVR), Drag & Drop, Audio Control, PiP Control, Fisheye Dewarp (10, 1P, 1R)
Watermark	Supported	Consumals ad	
Schedule Backup	Supported	Snapshot	JPEG
LiveView (Local Displa	у)	Video Clip Export	EXE
Stream Application	Constant/Auto Adaptive Stream	Alarm Management	
	8 Channels (4CH Wi-Fi + 4CH Wired)	Schedule Type	Continuous, Schedule, Manual
LiveView Display	Multiple Layout Display: 1x1, 3V, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6 OSD Display (NVR), OSD Display (Camera), Camera Information, Remote I/O Control,	Event	Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnormal, Storage Full, Camera Network Loss
Monitor Enhancement	Event Notification, Aspect Ratio, Fisheye Dewarp (10, 1P, 1R, 103R, 1P3R, 108R)	Action	Record, Email (Text), Email (Snapshot), FTP, Buzzer, ePTZ Control (Go to Preset), Camera
PTZ Control	Panel Control/Joystick		DO, VIVOCIoud APP Notification
PTZ Operation	Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control	Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)
Playback (Local Displ	ay)	Backup	
Playback Display	4 Channels Multiple Layout Display: 1x1, 2x2, 1P+3, 1V+3	Manual	USB Dongle (FAT Format), FTP Server Upload
	Regular (Play, Pause, Stop), Rewind, Next/	System	
Playback Control	Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)	User Management	User Account: 16 User Account Time Limit: 10 mins User Level: Administrator/Regular User User Feature Definition: By Camera
Video Search	By Calendar, Date/Time, Alarm		·
Thumbnail Explorer (Storyboard)	Listing the thumbnail of recorded video (Max. 2 CH)	Log	System, Recording, User, Error
Monitor Enhancement	OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp	Date&Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Monitor Enhancement	(10, 1P, 1R, 103R, 1P3R, 108R)	Firmware	Manual update
Snapshot	JPEG	Restore Default	Supported
Video Clip Export	EXE	Backup/Restore (Configuration)	Supported
LiveView (Remote)			Czech, English, French, German, Italian,
Stream Application	Stream Selection	Language	Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese, Polish
Audio Capability	One Way	Camera Integration	
LiveView Display	4 Channels Multi Layout Display: 1x1, 2x2, 1V+3	Insert Camera	Manual, Search
	OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)	Video (Media) Setting	Compression, Resolution, FPS, Video Quality
Monitor Enhancement		Image Setting	Image Display, Image Adjustment

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"







Cube Network Camera



2MP · 8M IR · Smart Stream II · AEC · PoE · WiFi · Compact Size

VIVOTEK's IP8160/IP8160-W is a stylish 2-megapixel cube network camera specifically designed for small-scale retail security applications. With a resolution of 1920x1080 at 30 fps, a removable IR-cut filter and built-in IR illuminators effective up to 8 meters, this remarkable camera provides users with superior image quality around the clock.

When coupled with VIVOTEK's Smart Stream II technology, the IP8160/IP8160-W can reduce both bandwidth and storage consumption by up to 50%* while retaining the same superb image quality as a Full HD camera.

Further, the camera supports two-way audio, and employs Acoustic Echo Cancellation (AEC) to greatly enhance audio quality and provide a clearer, smoother auditory image. VIVOTEK provides two easy-to install options for this compact camera; the IP8160-W boasts a 802.11b/g/n compatible wireless connection, and the IP8160 is designed for Power over Ethernet (PoE) functionality, making setup of these two powerful cameras both quick and simple.

* Depending on scenes

Key Features

- · 30 fps @ 1920x1080
- · Built-in IR Illuminators up to 8 M
- · Smart IR Technology to Avoid Overexposure
- \cdot Smart Stream II to Optimize Bandwidth Efficiency
- \cdot Built-in Microphone and Speaker for Two-way Audio
- Acoustic Echo Cancellation (AEC) for Optimizing Sound System
- · Built-in 802.3af Compliant PoE (IP8160)
- · Built-in 802.11 b/g/n WLAN (IP8160-W)
- · Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- · Compact Design



IR On



Model	IP8160: PoE, 8M IR IP8160-W: WiFi, 8M IR	Interface	Built-in microphone Built-in speaker
System Information		Effective Range	5 meters
CPU	Multimedia SoC (System-on-Chip)	Network	
Flash	128 MB	Users	Live viewing for up to 10 clients
RAM	256 MB		IP8160:
Camera Features			IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPP0E, CoS, QoS, SNMP, 802.1X ,SSL/TLS, ARP IP8160-W: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, SNMP, ARP
Image Sensor	1/2.9" Progressive CMOS	Protocols	
Maximum Resolution	1920x1080		
Lens Type	Fixed-focal		IP8160: 10 Base-T/100 Base-TX Ethernet
Focal Length	f = 2.8 mm	Interface	(RJ-45) IP8160-W: IEEE 802.11 b/g/n WLAN
Aperture	F1.8	ONN/IF	Supported, specification available at www.
Field of View	113° (Horizontal) 63° (Vertical)	ONVIF	onvif.org
Tield of View	136° (Diagonal)	Intelligent Video	
Shutter Time	1/5 sec. to 1/32,000 sec.	Video Motion Detection	Five-window video motion detection
WDR Technology	WDR Enhanced	Alarm and Event	
Day/Night	Removable IR-cut filter for day & night function	Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection,
Minimum Illumination	0.07 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8(B/W)		audio detection Event notification using HTTP, SMTP, FTP,
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in,12x built in)	Alarm Events	NAS server and SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
IR Illuminators	Built-in IR illuminators, effective up to 8 meters with Smart IR	General	
On-board Storage	IR LED*2 Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Connectors	IP8160: RJ-45 cable connector for 10/100Mpbs Network/PoE connection*1 IP8160-W: Micro USB connector for DC 5V power
Video			input*1
Compression	H.264 & MJPEG	LED Indicator	System power and status indicator
Maximum Frame Rate	30 fps @ 1920x1080 15 fps @ 1920x1080 (Acoustic Echo Cancellation On)	Power Input	IP8160: IEEE 802.3af POE Class 0 IP8160-W: DC 5V
Maximum Streams	3 simultaneous streams	Power Consumption	IP8160: Max. 5.5 W IP8160-W: Max. 8 W
S/N Ratio	70 dB	Dimensions	Ø 66 x 38.9 mm
Dynamic Range	70 dB	Weight	IP8160: 100.6 g (Camera unit), 58 g (Stand) IP8160-W: 62 g (Camera unit), 58 g (Stand)
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick
Tin Co sat	Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight	Operating Temperature	Starting Temperature: 0°C \sim 40°C (32°F \sim 104°F) Working Temperature: 0°C \sim 40°C (32°F \sim 104°F)
	compensation, privacy masks; Scheduled profile settings, defog, 3DNR, video rotation	Humidity	90%
Audio		Warranty	24 months
	Two-way Audio (Full dupley)	System Requirements	5
Audio Capability	Two-way Audio (Full duplex)	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Compression	G.711, G.726		

Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
Included Accessories	
Power Adapter	IP8160-W: 5V, 2A USB connector adapter
Others	Quick installation guide, warranty card, stand with screw kit, USB connector adapter(IP8160-W)

