



ND9312

H.265 8CH Embedded NVR

H.265 • 4K Display • Fisheye Dewarp • Web Plugin Free • VIVOCloud • Trend Micro IoT Security • ONVIF

- · H.265 Compression Technology
- · Up to 8 Channel IP Camera Input
- · HDMI Video Output up to 4K Resolution
- · 1 x 3.5" SATA HDD
- · Up to 8MP Camera Live View and Playback
- · Crowd Control Solution
- · Trend Micro IoT Security
- · Multiple Browsers Supported: IE, Chrome, and Firefox on both Windows & macOS
- · Live and Playback Fisheye Dewarp
- VIVOCloud App & Portal for 24/7 Viewing
- · Compact Size with Fanless Design





Highlight Features

Crowd Control Solution

VIVOTEK Crowd Control Solutions can easily monitor the number of people entering and exiting a store, thereby providing customers and staff with a safer environment. This solution can be deployed at points of entry to areas with a higher likelihood of social interaction such as shops, supermarkets, pharmacies, banks, and restaurants.



Better Video Quality with Lower Bandwidth

With H.265 standard and VIVOTEK's Smart Stream technology, VIVOTEK NVR is not only able to provide the high quality video, also save the usage of network bandwidth and recording capacity more than regular H.264 standard.



4K IP Camera Video Input and 4K Local Video Output

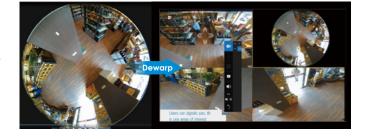
Supporting 4K IP camera video input and 4K local video output, VI-VOTEK's NVR can provide users extra high definition video resolution ensuring they will never miss a single detail in both video monitoring and recording.



4K Resolution

Fisheye Dewarp

VIVOTEK's NVR offers both LiveView and Playback modes for one fisheye network camera simultaneously. They also provide multiple fisheye de-warp display modes, including 10, 1P, 1R, 103R, 108R, allowing users to monitor any angle, or to enjoy precise detailed images for a total surveillance experience.



Chrome & Firefox Now Supported

Support for plug-in free web browsers enables users with direct web viewing/setting on IE, and now also on Chrome and Firefox web browsers, for both Windows and macOS.







Highlight Features

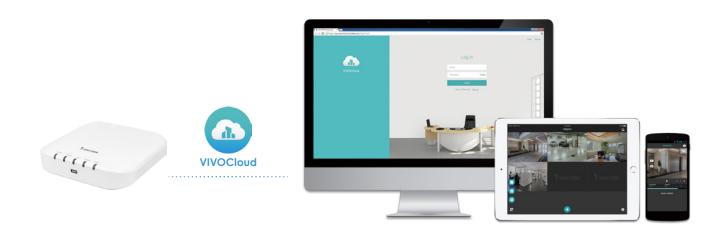
Trend Micro IoT Security

In collaboration with industry-leading cybersecurity software partners, VIVOTEK focuses on making network security products and software that meet industry protocols as well as constantly developing shields to increase your protection from various cyberattacks. By choosing VIVOTEK solutions, users can experience not only high-quality products, but also safer network environments.



VIVOCIoud 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 forany suspicious activity.



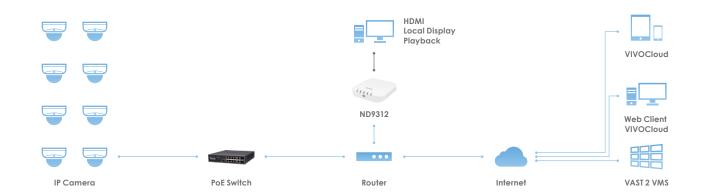
Highlight Features

Easy Connection with IP Cameras and Quick Auto Setup

In order to provide users a highly intuitive experience, it 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 2 minutes.



System Structure



Technical Specifications

Model	ND9312	
Device		
os	Embedded Linux	
CPU	ARM Processor	
Flash	256 MB	
RAM	1GB	
Watchdog	Hardware + Software	
Power Restoration	System restart automatically after power recovery	
Local Display		
Live View Display	8 Channels Multi-layout display: 1x1, 3V, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6	

Technical Specifications

Video Output	HDMI x1	
Display Resolution	3840x2160,1920x1080, 1280x720	
Camera Position	Change the viewcell position on the live view screens	
Stream Application	Constant\Auto adaptive stream	
Monitor Enhancement	OSD display (NVR), OSD display (camera), camera information, remote I/O control, event notification, aspect ratio	
Fisheye Dewarp	10, 1P, 1R, 103R, 108R	
PTZ Operation	Direction control, home, iris, preset, patrol (group), PiP control	
Video		
Video Format	H.265, H.264, MJPEG	
Graphic Decoder	Hardware decoding	
Decoding Resolution	Up to 3840x2160	
Decoding Capability	3840x2160 @ 30 fps (1CH) 1920x1080 @ 120 fps (4CH) 1280x720 @ 240 fps (8CH)	
Audio		
Audio Format	G.711, G.726	
Audio In/Out	HDMI with audio out	
Record		
Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)	
Recording Stream	Single	
Recording Throughput	48 Mbps	
Recording Mode	Continuous, schedule, manual, event, activity adaptive streaming	
Recording Setting	Recycle (unit: day)	
Watermark	Supported	
Storage & Backup		
HDD Devices	Internal x1 (3.5")	
HDD Max. Capacity	* Please refer to HDD supported list on the VIVOTEK website.	
Disk Management	Create, format and remove disk HDD S.M.A.R.T.	
Video Clip Export	USB dongle (FAT format)	
Schedule Backup	FTP	
Playback		
Playback Display	4 Channels Multi-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)	

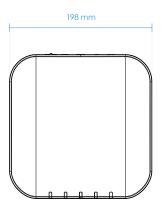
Technical Specifications

Video Search	By calendar, date/time, alarm	
Thumbnail Explorer (Storyboard)	Listing the thumbnail of recorded video (Max. 2 CH)	
Snapshot	JPEG	
Video Clip Export	EXE	
Network		
Ethernet	10/100Mbps Ethernet (RJ-45) x 1	
Video Throughput for Remote Client	40 Mbps	
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter	
External Interface		
USB	USB 2.0 x 2 (front x1, back x1)	
Audio	HDMI with audio out	
System		
Camera Integration	ONVIF Profile S	
Event	Motion detection, PIR detection, tampering detection, camera DI/DO, camera disconnected, disk failure, disk full	
Event Action	Record, email (text/snapshot), FTP, buzzer, ePTZ control (go to preset), camera DO, send to CMS, VIVOCloud APP notification	
User Management	User level: administrator, regular user	
Log	System, recording, user, error	
Log Date&Time	System, recording, user, error Time zone, manual, automatic sync NTP, daylight saving time	
Date&Time	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian,	
Date&Time Language	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian,	
Date&Time Language Advance Features	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese	
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Date&Time Language Advance Features Trend Micro IoT Security Crowd Control Solution Remote Client Software AP Mobile/Tablet App	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese Supported Supported Shepherd, VAST 2 iViewer (Android & iOS) Internet Explorer 10 (32 bit) or later / Windows	
Date&Time Language Advance Features Trend Micro IoT Security Crowd Control Solution Remote Client Software AP Mobile/Tablet App Web Browser	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese Supported Supported Shepherd, VAST 2 iViewer (Android & iOS) Internet Explorer 10 (32 bit) or later / Windows Chrome v68.0.3 & Firefox v61.02 or later / Windows & macOS	
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Date&Time Language Advance Features Trend Micro IoT Security Crowd Control Solution Remote Client Software AP Mobile/Tablet App Web Browser VIVOCloud General Power Input	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese Supported Supported Shepherd, VAST 2 iViewer (Android & iOS) Internet Explorer 10 (32 bit) or later / Windows Chrome v68.0.3 & Firefox v61.02 or later / Windows & macOS Supported DC 12V 3A	
Date&Time Language Advance Features Trend Micro IoT Security Crowd Control Solution Remote Client Software AP Mobile/Tablet App Web Browser VIVOCloud General Power Input Power Consumption	Time zone, manual, automatic sync NTP, daylight saving time Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese Supported Supported Shepherd, VAST 2 iViewer (Android & iOS) Internet Explorer 10 (32 bit) or later / Windows Chrome v68.0.3 & Firefox v61.02 or later / Windows & macOS Supported DC 12V 3A Max. 15W	

Technical Specifications

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Humidity	0 ~ 95%
Safety Certifications	CE, LVD, FCC, VCCI, C-Tick, UL
Warranty	36 months

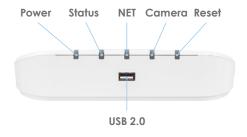
Dimensions





Mechanical Information

Front View



Back View



Ordering Information

Model	Description	P/N
ND9312		100218100G, US
		100218110G, EU
	H.265, 8CH, 1HDD NVR	100218120G, UK
		100218130G, AU
		100218140G, JP

