



ND9441 ND9541

H.265 16-CH/32-CH Embedded NVR



H.265/H.264 · 4x HDD · ONVIF · Dual LAN · Fisheye Dewarp · RAID · HDMI/VGA Monitor Display · Storyboard Search · Mobile EZConnect

VIVOTEK's ND9441 and ND9541 are the brand new H.265 Linux-based embedded standalone NVRs. Equipped for up to 16-CH/32-CH network cameras, the NVRs feature well-built ONVIF compliant and scalable configuration with VAST CMS empowering users to set up and manage advanced IP surveillance systems with ease. Both NVRs also support remote and mobile access, via EZConnect and iViewer app, for both iOS and Android handheld devices, providing users an open, flexible and intelligent NVRs for seamless use in small to medium sized video surveillance applications.

With H.265 compression technology and embedded with 4 HDD design providing up to 32TB, the ND9441 and the ND9541 offer greater than $30\% \sim 50\%$ more recording capacity than systems employing H.264 compression. This advance gives users larger storage space for longer durations of video recording. In order to provide uninterrupted service even when the network is temporally disrupted, both NVRs are also equipped with dual Ethernet ports, as well as providing the flexibility to connect with network cameras in network failover situations. Further, the RAID 0/1/5 configuration provides further data security in the rare event of a hard drive failure.

Further enabling the recording of high-quality and detailed images, the ND9441 and the ND9541 support a maximum network camera resolution of 12-Megapixels. To intelligently manage bandwidth while maintaining this high-quality, the "Auto Adaptive Stream" function will adjust the display resolution automatically for each different layout type. Moreover, both NVRs support 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. Further, to quickly and intuitively find any target event, the ND9441 and the ND9541 are equipped with "Story-Board Search" function, which provides a glimpse of past recordings over an intuitive timeline.

Finally, the ND9441 and the ND9541 support HDMI and VGA local video output, so users can control the GUI OSD interface via mouse & keyboard, eliminating the need for a separate PC to search video or playback from the NVRs. Moreover, the intuitive and friendly VIVOTEK GUI design gives users an even smoother experience of control than ever before

Features

- · H.265/H.264 Compression Technology
- · Plug & Play One Button Auto Setup
- EZConnect by Scanning QR Code for 24/7 Mobile Viewing
- \cdot Intuitive, Elegant Interaction UI
- VIVOTEK Camera Configuration and VAST CMS Integrated

- · Live and Playback Fisheye Dewarp
- · Embedded Linux OS
- · Support RAID 0/1/5 Storage
- · Story Board Event Search
- · Up to 12MP Camera Liveview & Playback
- \cdot Dual Lan Network Ports with Failover Function
- · ONVIF Open Platform (Project Support Function)

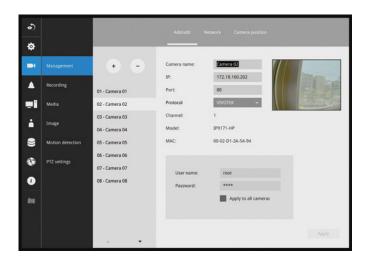
H.265 Compression Technology

To provide high-quality images and efficient video compression for today's surveillance applications, VIVOTEK presents these two NVRs. Endowed with H.265 technology; these NVRs offer more than 30% $\sim 50\%$ greater recording capacity than systems employing H.264 compression - effectively giving users larger storage capacity for longer durations of high-quality video recording.



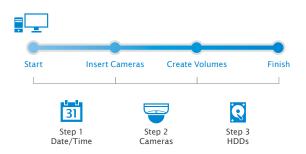
Intuitive UI

With a friendly and elegant interactive design, users can enjoy the benefit of simple operation and a UI that's easy on the eyes.



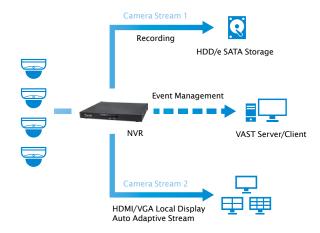
One Button Setup

In order to provide users a highly intuitive experience, VIVOTEK's NVRs provide Auto- Wizard for convenient system set-up, which takes less than 2 minutes to finish it.



Auto Adaptive Stream

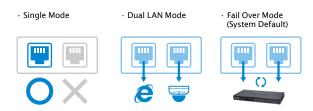
With the "Automatic Adaptive Stream" function, the resolution of a Camera's second Stream will be adjusted automatically according to the display layout selected, thus reducing network bandwidth and saving on total project costs.





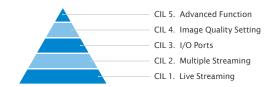
Dual LAN Application

The ND9441 and the ND9541 are equipped with dual Ethernet ports, providing the flexibility to cope with a network failover situation, as well as load-balancing or multi-IP setting.



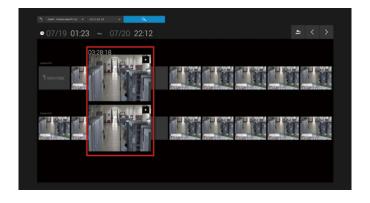
CIL 5 (Camera Integration Level)

VIVOTEK'S NVR provides a powerful camera integration to Level 5, which integrates the camera's streaming adjustment, camera I/O configuration, Image adjustment, and fisheye de-warp function application.



Story Board Event Search

To quickly and intuitively find any target event, we provide a glimpse of past recording over an intuitive timeline, allowing users to direct playback and archive their video within 10 seconds.



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.



*Support LiveView and Playback modes

EZConnect

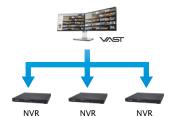
EZConnect App provides users an unbeatable experience for mobile viewing NVR video via a mobile device from anywhere, at any time.

EZConnect



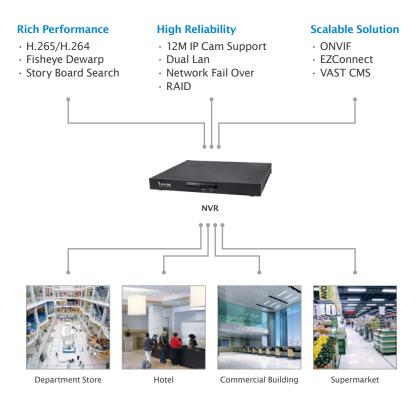
VAST CMS Integration

VIVOTEK'S NVR is both CMS compliant and a totally scalable configuration thanks to VAST CMS. This powerful tool enables users to set up and manage advanced IP surveillance systems with ease.



- · Camera Disconnection
- · Motion Detection
- · Camera Tempering Detection
- · Camera Digital Input Trigger Event
- · HDD Fail Events
- · Camera Recording Status





Product - Order Information

Model	Description	Part Number
ND9441	H.265, 16-CH, 4HDD NVR	100141300G, US
		100141310G, EU
		100141320G, UK
		100141330G, AU
ND9541	H.265, 32-CH, 4HDD NVR	100139900G, US
		100139910G, EU
		100139920G, UK
		100139930G, AU

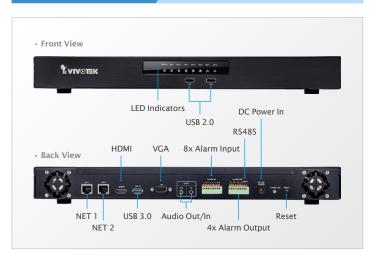
Accessory - Order Information

Part Number
900029300G
900022500G
900022400G
900022300G
900029100G
900030000G

PoE Switch - Order Information

Model	Description	Part Number
AW-FGT-260A-250	Unmanaged 24xFE PoE + 2xCombo GE Switch	100128200G, US
		100128210Z, UK
		100128220Z, EU
		100128230G, AU
		100128240G, JP
AW-FGT-180A-250	Unmanaged 16xFE PoE + 2xCombo GE Switch	100130900G, US
		100130920G, UK
		100130910G, EU
		100130940G, AU
		100130930G, JP
AW-GEV-264A-185	VivoCam L2 Managed PoE Switch 24xGE PoE + 2xCombo GE	100129600G, US
		100129620G, UK
		100129610G, EU
		100129630G, AU
		100129640G, JP

Mechanical Information





Technical Specifications

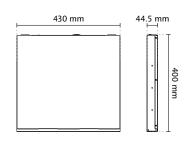
Model	ND9441 16-CH H.265 Embedded NVR	ND9541 32-CH H.265 Embedded NVR	
Hardware Information			
System			
OS	Embedde	ed Linux	
CPU	ARM Pro		
Flash	256		
RAM	2 GB	4 GB	
Watchdog	Hardware +		
Power Restoration	System Restart Automatica	ally after Power Recovery	
Storage			
HDD Devices	Interna	al x4	
HDD Max. Capacity	8 TB	3 x4	
Disk Management	Create, Format ar		
DISK Wanagement	HDD S.N	M.A.R.T	
Video & Audio			
Video Output	HDMI x1,	VGA x1	
Resolution	1920×1080,	1280x720	
Graphics Decoder	Hardware o	decoding	
Decoding Capacity	H. 265/H. 264: 2560x1920 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH) 1280x720 @ 480 fps (16-CH)	H.265/H.264: 2560x1920 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH) 1280x720 @ 480 fps (16-CH) 720x480 @ 960 fps (32-CH)	
Camera Position	Change the viewcell position	n on the Live View screens	
External Interface			
	Front: 2 (l	USB 2.0)	
JSB Interface	Back: 1 (L		
Alarm In	8		
Alarm Out	4		
	3.5 Phone Jack A		
Audio	3.5 Phone Jack Audio		
35485	1 Port (Re		
Network	Trote (iii		
	10/100/100011	Ethernet (PLAS) v 2	
Network Interface	10/100/1000Mbps Ethernet (RJ-45) x 2		
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter		
Power			
Power Input	DC 56V 2.32A		
Power Consumption	Max. 120 W		
LED Indicator			
ED Indicator	Status, Record, HDD1, HDD2	2, HDD3, HDD4, Net1, Net2	
Mechanic			
Form Factor	Deali	rton	
	Desk		
Operation Buttons	Power (Front) /		
Dimensions	430 (W) x 400 (D) x 44.5 (H) mm		
Weight	3.87 kg (wit		
Operating Temperature	0°C ~ 40°C (3.	2°F ~ 104°F)	
Humidity	0 ~ 9	95%	
General			
Safety Certifications	CE, LVD, FCC	C, VCCI, UL	
Warranty	24 mo		
Client PC Requirements	24 1110		
	Microsoft Windows OS: X	(P/\/ista/7/8/2008/2012	
Operating System			
CPU 	Intel Celeror		
Memory	2 GB or		
Ethenet	10/100		
Display Resolution	1024x768 pix	els or above	
Neb Browser	Internet Explorer 10	0 (32 bit) or above	
Software AP	Installation Wizard	1 2, ST7501, VAST	
Mobile/Tablet App	EZConnect (iOS/Android)), iViewer (iOS/Android)	
Accessories			
CD	User's Manual, Quick Installation (Guide (OIG), Installation Wizard 2	
Others	Power Adapter, Power Cord, Quick Installation Guide, 32 x H.D.E		
	rower Adapter, Power Cord, Quick Installation Guide, 32 x H.D.L	ש. אוטטא, ס ג דו.ט.ט. prackets, ד x upp mouse, 4 x SATA Cables	
Software Information			
Record			
Maximum Channel	16	32	
Record Throughput (MB)	192 Mbps	192 Mbps	
Network Throughput (MB)	96 M		
Audio Format	G.711, 0		
/ideo Format	MJPEG, H.2		
/ideo Resolution			
	VGA, 1MP, 2MP, 3MP, 5MP & 12MP Camera		
Array Type	RAID 0, 1, 5		
Recording Time (sec.)	Pre-Record: Post-Pecord: 7	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)	
Recording Stream	Sing		
Recording Mode	Continuous, Schedule, Manual, Ev		
Recording Setting	Recycle (u		
Recording Path	Local	Path	
Record Video Format	3G	GP .	
LiveView (Local Display)			
Stream Application	Auto Adapti	ive Stream	
··	16 Channels	32 Channels	
	Multi Layout display:	Multi Layout display:	



Technical Specifications

Model	ND9441 16-CH H.265 Embedded NVR	ND9541 32-CH H.265 Embedded NVR	
Monitor Enhancement		OSD Display (NVR), OSD Display (Camera), Camera Information, Remote I/O Control, Event Notification, Aspect Ratio, Fisheye Dewarp (10.1P.1R.1038, 1088)	
PTZ Control	Panel	Panel Control	
PTZ Operation	Direction Control, Home, Iris,	Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control	
Playback (Local Display)			
Playback Display		4 Channels	
Playback Control		Multiple Layout Display: 2x2	
Video Search		Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)	
		By Calendar, Date/Time, and Alarm	
Thumbnail Explorer (Storyboard) Monitor Enhancement	-	Listing the thumbnail of recorded video (Max. 2 CH) OSD Display (Camera) Event Notification, Aspect Patio, Pip Control, Fishery Deward (10 1919 1029, 1089)	
Snapshot		OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10,1P,1R,103R, 108R) JPEG	
Video Clip Export	-	EXE	
LiveView (Remote)		EAC.	
Stream Application	Stroam	Selection	
		e Way	
Audio Capability	16 Channels	a Way 32 Channels	
LiveView Display	Multi Layout display: 1x1, 2x2, 3x3, 4x4, 1+3, 1+5, 1+12	Multi Layout display: 1x1, 2x2, 3x3, 4x4, 1+3, 1+5, 1+12, 1+31	
Monitor Enhancement		e I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)	
PTZ Control		Control	
PTZ Operation		s, Iris, Preset, Patrol (Group), PiP Control	
Snapshot	J	PEG	
Playback (Remote)			
Playback Display		4 Channels Multi Layout Display: 1x1, 2x2, 1+3	
Playback Control	Regular (Play, Pause, Stop), Next Frame, Speed Co	ntrol, Calendar, Timeline, Timeline Scale, Bookmark	
Monitor Enhancement	OSD Display (NVR), Drag & Drop, Audio Co	ntrol, PiP Control, Fisheye Dewarp (10, 1P, 1R)	
Snapshot	J	PEG	
Video Clip Export		EXE	
Alarm Management			
Schedule Type	Continuous, S	Continuous, Schedule, Manual	
Event		Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnorma Storage Full, Camera Network Loss, DI, DO	
Action	-	er, ePTZ Control (Go to Preset), NVR DO, Camera DO	
Recording Time (sec.)		Post-Record: 20 (Max. 300)	
Backup			
Manual	USB Donale	e (FAT Format)	
System			
User Management	User Account T User Level: Admini	User Account: 16 User Account Time Limit: 10 mins User Level: Administrator / Regular User User Feature Definition: By Camera	
Log	System, Recor	ding, User, Error	
Date&Time		c Sync NTP, Daylight Saving Time	
Firmware		al update	
Restore Default	Sup	ported	
Backup/Restore (Configuration)	Sup	ported	
Language	Czech, English, French, German, Italian, Japanese, Korean, Polish, I	Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese	
Camera Intergration			
Insert Camera	Manua	al, Search	
Video (Media) Setting	·	tion, FPS, Video Quality	
Image Setting	Image A	lmage Display Image Adjustment	
PTZ Control		Panel Control	
PTZ Operation		Direction Control, Home, Preset, Patrol (Group)	
Motion Detection		Supported	
ONVIF Core Spec	Version 2.2 or	Version 2.2 or above (By Project)	
ONVIF Stream		Video (H.264, MPEG)	
ONVIF Recording		Continuous, Schedule, Manual	
ONVIF Discover		Discover the other brand camera through "Insert Camera & Batch Insert"	
Device Intergration			
UPS	APC Mode	l Compatible	
v. v	AFC Midde	· companion	

Dimensions



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