



ND9441 ND9541

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



H.265/H.264 · Dual LAN · 4x HDD · HDMI/VGA Local Display · RAID · Fisheye Dewarp · VIVOCloud · ONVIF · POS Integration

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 VIVOCloud 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
- · VIVOCloud App & Portal for 24/7 Surveillance
- · 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
- · Dual LAN Network Ports with Failover Function
- · ONVIF Open Platform (Project Support Function)
- · POS Integration (Project Support Function)
- · Watermark

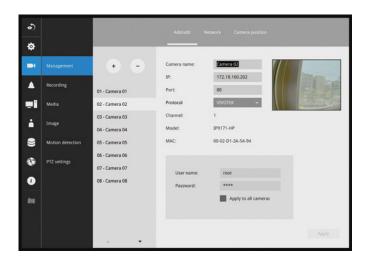
H.265 Compression Technology

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.



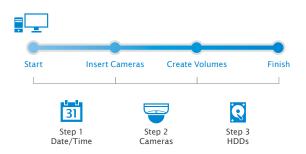
Intuitive UI

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



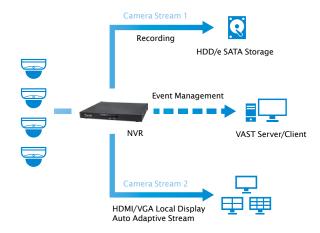
One Button Setup

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

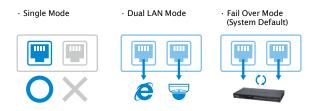
With the "Automatic Adaptive Stream" function, the resolution of a Camera's second Stream will be adjusted automatically according to the display layout selected, thus reducing network bandwidth and saving on total project costs.





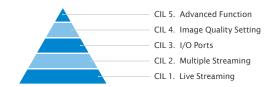
Dual LAN Application

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.



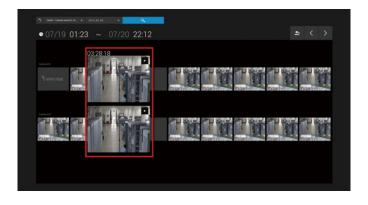
CIL 5 (Camera Integration Level)

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

VIVOCloud

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





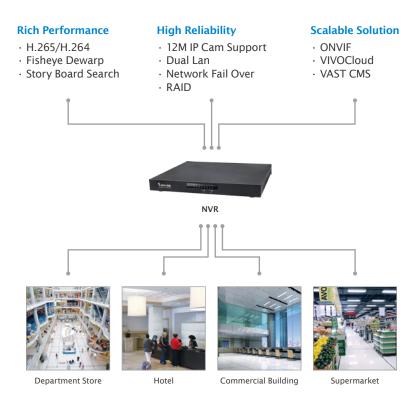
VAST CMS Integration

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

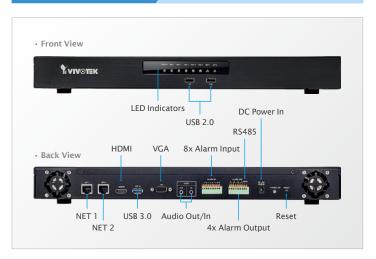
Accessory - Order Information

Model	Part Number
Surveillance HDD 1TB	900029300G
Surveillance HDD 2TB	900022500G
Surveillance HDD 3TB	900022400G
Surveillance HDD 4TB	900022300G
Surveillance HDD 6TB	900029100G
AM612 - Rack Mount Slide Rails	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-267A-370	VivoCam L2+ Managed PoE Switch, 24xGE PoE + 2xGE Combo + 1xRJ45 Console	100157000G, US
		100157020G, UK
		100157010G, EU
		100157030G, AU
		100157040G, JP

Mechanical Information





Technical Specifications

Model	ND9441 H.265 16-CH Embedded NVR	ND9541 H.265 32-CH Embedded NVR	
Hardware Information			
System			
OS	Embedde	d Linux	
CPU	ARM Pro	cessor	
Flash	256	MB	
RAM	2 GB	4 GB	
Watchdog	Hardware +	Software	
Power Restoration	System Restart Automatica	ally after Power Recovery	
Storage			
HDD Devices	Intern	al x4	
HDD Max. Capacity	8 TB	x4	
Disk Management	HDD S.M	Create, Format and Remove Disk HDD S.M.A.R.T RAID 0, 1, 5 (RAID Max. Volume: 16TB)	
Video & Audio	KAID U, 1, 3 (KAID M	lax. Volume. 1618)	
/ideo Output	HDMI x1,	VCA v1	
Resolution	1920×1080,		
Graphics Decoder	Hardware		
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		
external Interface			
ISB Interface	Front: 2 (I		
	Back: 1 (U	JSB 3.0)	
slarm In	8		
Alarm Out	4		
Audio	3.5 Phone Jack A		
	3.5 Phone Jack Audio		
External HDD	USB 3.0		
RS485	1 Port (Re	eserved)	
Network		Filmon (N. 45) - 2	
Network Interface	10/100/1000Mbps I		
Protocols -	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTC	CP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter	
Power		2.224	
Power Input	DC 56V		
Power Consumption	Max. 1	Max. 120 W	
LED Indicator			
LED Indicator	Status, Record, HDD1, HDD2	2, HDD3, HDD4, Net1, Net2	
Mechanic			
Form Factor	Desk		
Operation Buttons		Power/Reset (Back)	
Dimensions	430 (W) x 400 (D)		
Weight	3.87 kg (wit		
Operating Temperature	0°C ~ 40°C (3		
Humidity	0 ~ 9	95%	
General			
Safety Certifications	CE, LVD, FCC, V	CCI, C-Tick, UL	
Warranty	24 mo	nths	
Client PC Requirements			
Operating System	Microsoft Windows OS: XP/	Vista/7/8/10/2008/2012	
CPU	Intel Celeron	Intel Celeron or above	
Memory	2 GB or		
Ethenet	10/100		
Display Resolution	1024x768 pix		
Web Browser	Internet Explorer 10		
Software AP	Installation Wizard 2, Sh		
Mobile/Tablet App	VIVOCloud (iOS/Android)), iViewer (iOS/Android)	
Accessories			
CD	User's Manual, Quick Installation (
Others	Power Adapter, Power Cord, Quick Installation Guide, 32 x H.D.E	D. Screws, 8 x H.D.D. Brackets, 1 x USB Mouse, 4 x SATA Cables	
Software Information			
Record			
Maximum Channel	16	32	
Record Throughput (MB)	192 N	lbps	
Network Throughput (MB)	96 M	bps	
Audio Format	G.711,	G.726	
/ideo Format		H.265, H.264, MJPEG	
/ideo Resolution	VGA, 1MP, 2MP, 3MP, 5MP & 12MP Camera		
Recording Time (sec.)	Pre-Record: 5 (Max. 10)		
		Post-Record: 20 (Max. 300)	
Recording Stream		Single	
Recording Mode	Continuous, Schedule, Manual, Ev		
Recording Setting		Recycle (unit: Day)	
Recording Path		Local Path	
Record Video Format		3GP	
Watermark	Suppo	orted	
LiveView (Local Display)			
Stream Application	Constant/Auto A		
	16 Channels	32 Channels	

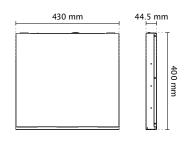


Technical Specifications

Model	ND9441 H.265 16-CH Embedded NVR	ND9541 H.265 32-CH 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,103R, 108R)	
PTZ Control	Panel Co	ntrol/Joystick	
PTZ Operation		Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control	
Playback (Local Display)			
Playback Display		nannels lay: 1x1, 2x2, 1P+3, 1V+3	
Playback Control			
Video Search		Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)	
		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 (10, 1P, 1R, 103R, 108R)	
Snapshot		PEG EXE	
Video Clip Export		EXE	
LiveView (Remote)			
Stream Application		n Selection	
Audio Capability		ne Way	
LiveView Display	16 Channels Multi Layout display: 1x1, 2x2, 3x3, 1V+3, 1M+5, 1M+12, 4x4	32 Channels Multi Layout display: 1x1, 2x2, 3x3, 1V+3, 1M+5, 1M+12, 4x4, 1M+31	
Monitor Enhancement	OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remo	te I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)	
PTZ Control	Pane	l Control	
PTZ Operation	Direction Control, Home, Zoom, Foc	ıs, Iris, Preset, Patrol (Group), PiP Control	
Snapshot		PEG	
Playback (Remote)			
Playback Display		nannels play: 1x1, 2x2, 1V+3	
Playback Control		ontrol, Calendar, Timeline, Timeline Scale, Bookmark	
Monitor Enhancement		ontrol, PiP Control, Fisheye Dewarp (10, 1P, 1R)	
Snapshot		PEG	
Video Clip Export		EXE	
Alarm Management			
Schedule Type	Continuous	Schedule, Manual	
Event	Motion Detection, PIR Detection, Tampering Detection, Digital Input (C	Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnorn Storage Full, Camera Network Loss, DI, DO, Network Disconnected	
Action		Record, Email (Text), Email (Snapshot), FTP, Buzzer, ePTZ Control (Go to Preset), NVR DO, Camera DO, VIVOCloud APP Notification	
Recording Time (sec.)		Post-Record: 20 (Max. 300)	
Backup	The Record. 5 (Max. 16)	Tost Necord. 20 (Max. 300)	
Manual	LICP Dance	e (FAT Format)	
	USB DOING	e (FAT FOTHIAL)	
User Management	User Account T User Level: Admin	User Account: 16 User Account Time Limit: 10 mins User Level: Administrator / Regular User User Feature Definition: By Camera	
Log		rding, User, Error	
Date&Time		c Sync NTP, Daylight Saving Time	
Firmware		al update	
Restore Default		ported	
Backup/Restore (Configuration)		ported	
Language		Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese	
Camera Intergration	,g,		
Insert Camera	Manu	al, Search	
Video (Media) Setting		ution, FPS, Video Quality	
Image Setting	Imag	e Display	
PTZ Control		Adjustment ntrol, Joystick	
PTZ Operation		Direction Control, Home, Preset, Patrol (Group)	
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 the other brand camera t	Discover the other brand camera through "Insert Camera & Batch Insert"	
Device Intergration			
UPS		el Compatible	
lovetick	ון ממן	SR AIOO1	

Dimensions

Joystick



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IPD-USB, AJ001