



# 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.

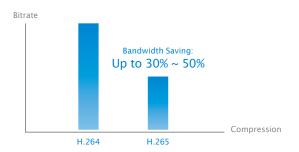
## **Features**

- · 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

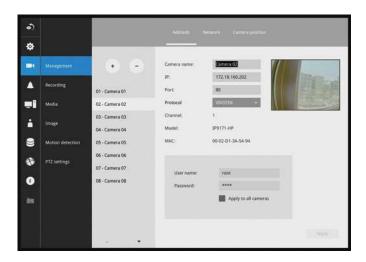
## **H.265 Compression Technology**

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.



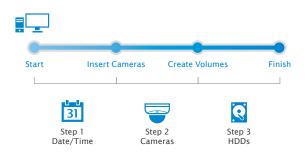
## **Intuitive UI**

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



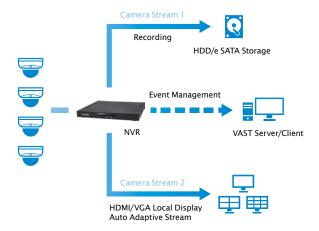
# **One Button Setup**

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**

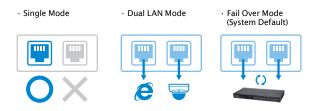
With the "Automatic Adaptive Stream" function, the resolution of a Camera's second Stream will be adjusted automatically according to the display layout selected, thus reducing network bandwidth and saving on total project costs.





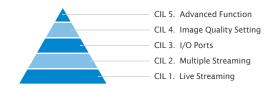
## **Dual LAN Application**

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.

## VIVOCloud







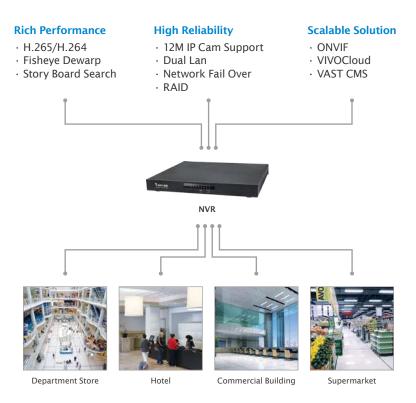
#### **VAST CMS Integration**

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		100130900G, US
	Unmanaged 16xFE PoE + 2xCombo GE Switch	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**

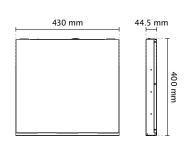
Model	ND9441 H.265 16-CH Embedded NVR	ND9541 H.265 32-CH Embedded NVR	
Hardware Information			
System			
os	Embedde	ed Linux	
CPU	ARM Pro	ocessor	
Flash	256		
RAM	2 GB	4 GB	
Natchdog	Hardware -	+ Software	
Power Restoration	System Restart Automatic		
Storage	System restart rationality	any area rower necovery	
_	I.i.		
HDD Devices	Intern		
HDD Max. Capacity	8 TE		
Disk Management	Create, Format a HDD S.N		
	RAID 0, 1, 5 (RAID N	Max. Volume: 16TB)	
Video & Audio			
Video Output	HDMI x1,		
Resolution	1920x1080,		
Graphics Decoder	Hardware	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 (	(USB 2.0)	
USB Interface	Back: 1 (		
Alarm In	8		
Alarm Out	4		
	3.5 Phone Jack A		
Audio	3.5 Phone Jack Audio		
External HDD	USB 3.0		
RS485	1 Port (R		
Network	T FOIL (K		
	10/100/100011	Ethornot (BL 4E) v2	
Network Interface	10/100/1000Mbps		
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RT	CP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter	
Power			
Power Input	DC 56V	2.32A	
Power Consumption	Max.	120 W	
LED Indicator			
LED Indicator	Status, Record, HDD1, HDD1	2, HDD3, HDD4, Net1, Net2	
Mechanic			
Form Factor	Desk	ctop	
Operation Buttons		Desktop  Prover/Reset (Rack)	
Dimensions		Power/Reset (Back)	
		430 (W) x 400 (D) x 44.5 (H) mm	
Weight Constitution Towns of the Constitution	•	3.87 kg (without HDD)	
Operating Temperature	0°C ~ 40°C (3		
Humidity	0~9	95%	
General			
Safety Certifications	CE, LVD, FCC, V	CCI, C-Tick, UL	
Warranty	24 mg	onths	
Client PC Requirements			
Operating System	Microsoft Windows OS: XP	/Vista/7/8/10/2008/2012	
CPU CPU	Intel Celero		
Memory	2 GB or		
•	10/100		
Ethenet Display Personalities			
Display Resolution	1024x768 pix		
Web Browser	Internet Explorer 1		
Software AP	Installation Wizard 2, SI		
Mobile/Tablet App	VIVOCloud (iOS/Android	l), iViewer (iOS/Android)	
Accessories			
CD	User's Manual, Quick Installation	Guide (QIG), Installation Wizard 2	
Others	Power Adapter, Power Cord, Quick Installation Guide, 32 x H.D.I	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		
Network Throughput (MB)			
Audio Format		96 Mbps	
		G.711, G.726	
Video Format		H.265, H.264, MJPEG	
Video Resolution		VGA, 1MP, 2MP, 3MP, 5MP & 12MP Camera	
Recording Time (sec.)		Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)	
Recording Mode		Single	
Recording Mode	Continuous, Schedule, Manual, Ev		
Recording Setting		Recycle (unit: Day)	
Recording Path		Local Path	
Record Video Format	30	3GP	
Watermark	Suppo	orted	
LiveView (Local Display)			
	Constant/Auto A	Adaptive Stream	
LiveView (Local Display) Stream Application	Constant/Auto A	Adaptive Stream 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 Contr	ol/Joystick	
PTZ Operation		Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control	
Playback (Local Display)			
	4 Chai	nnels	
Playback Display		Multiple Layout Display: 1x1, 2x2, 1P+3, 1V+3	
Playback Control	Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Conti	rol, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)	
Video Search	By Calendar, Dat	e/Time, Alarm	
Thumbnail Explorer (Storyboard)	Listing the thumbnail of re	Listing the thumbnail of recorded video (Max. 2 CH)	
Monitor Enhancement	OSD Display (Camera), Event Notification, Aspect Ratio,	OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10, 1P, 1R, 103R, 108R)	
Snapshot	JPE		
Video Clip Export	EX		
LiveView (Remote)		-	
	Character C	. Landa a	
Stream Application	Stream S		
Audio Capability	One		
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, Remote	I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)	
PTZ Control	Panel C	ontrol	
PTZ Operation	Direction Control, Home, Zoom, Focus,	Iris, Preset, Patrol (Group), PiP Control	
Snapshot	JPE		
Playback (Remote)			
Playback Display		4 Channels Multi Layout Display: 1x1, 2x2, 1V+3	
Playback Control	Regular (Play, Pause, Stop), Next Frame, Speed Cont		
Monitor Enhancement	OSD Display (NVR), Drag & Drop, Audio Cont		
Snapshot	JPE		
Video Clip Export	EX	E	
Alarm Management			
Schedule Type	Continuous, Sch	Continuous, Schedule, Manual	
Event		Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnormal 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.)	Pre-Record: 5 (Max. 10), Po	ost-Record: 20 (Max. 300)	
Backup			
Manual	USB Dongle (I	FAT Format)	
System			
User Management	User Account Tim User Level: Administr	User Account: 16 User Account Time Limit: 10 mins User Level: Administrator / Regular User User Feature Definition: By Camera	
Log	System, Recordi	ng, User, Error	
Date&Time	Time Zone, Manual, Automatic S	Sync NTP, Daylight Saving Time	
Firmware	Manual	update	
Restore Default	Suppo	orted	
Backup/Restore (Configuration)	Suppo		
Language	Czech, English, French, German, Italian, Japanese, Korean, Polish, Po		
Camera Intergration	eccen, engasa, rrenen, derman, maian, japanese, norean, ronsii, ro		
		Caarah	
Insert Camera	Manual,		
Video (Media) Setting		Compression, Resolution, FPS, Video Quality	
Image Setting	Image Adj	Image Display Image Adjustment	
PTZ Control		Panel Control, Joystick	
PTZ Operation	Direction Control, Home		
Motion Detection	Suppo	orted	
ONVIF Core Spec	Version 2.2 or ab	Version 2.2 or above (By Project)	
ONVIF Stream		Video (H.264, MJPEG)	
		Continuous, Schedule, Manual	
ONVIF Recording			
DNVIF Recording DNVIF Discover	Discover the other brand camera thro		
ONVIF Recording ONVIF Discover  Device Intergration  UPS		ough "Insert Camera & Batch Insert"	

## Dimensions



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