ND8321

Standalone Desktop NVR

8-CH · 2-Bay HDD · Auto Setup · Auto Adaptive Stream · Hardware Decoding

VIVOTEK ND8321 is a compact Linux embedded 8-CH standalone desktop NVR designed for any small-scale video surveillance installation. ND8321 achieves non-screwdriver installation, and facilitates "One Button Setup" with its plug & play and auto setup functionality.

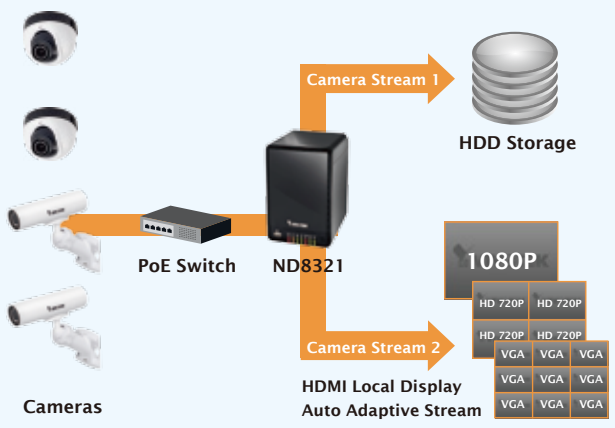
Supporting Full HD HDMI local video output, users can control the GUI OSD interface via mouse & keyboard, eliminating the need for a separate PC to view video or to playback from the NVR. The new local display design - Auto Adaptive Stream will dynamically modify Stream 2 resolution of a camera to best fit the display resolution according to the layout type, performing an efficient display. Fisheye dewarp is also designed in ND8321. ND8321 supports software dewarp of VIVOTEK fisheye cameras, allowing seamless display in a fisheye surveillance scenario.

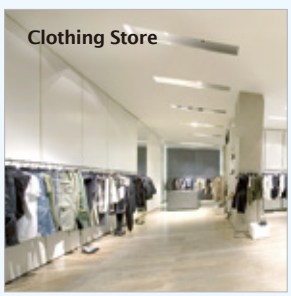
Together with VAST CMS and ST7501 VMS, users can set up an easy-to-use IP surveillance system with ease. VIVOTEK also provides the mobile application, iViewer, for both iOS and Android handheld devices, enabling users to monitor live video anytime, anywhere.

Key Features

- 8-CH Live Viewing
- 1-CH Local Playback, 4-CH Remote Synchronous Playback
- Embedded Linux OS
- Easy to Install HDD Design
- 1080P HDMI Local Video Output
- Plug & Play Auto Setup
- Auto Adaptive Stream for Efficient Display
- Support Fisheye Dewarp (1O, 1P, 1R, 1O3R)
- Support Local Rewind
- VIVOTEK Camera Configuration Integrated

ND8321 Application Scenario





Hardware Information

Model	ND8321
System	
OS	Embedded Linux
CPU	ARM Processor
Flash	256 MB
RAM	1 GB
Watchdog	Hardware + Software
Power Restoration	System restart automatically after Power Recovery
Storage	
HDD Devices	Internal tray x 2
HDD Max. Capacity	8 TB (4 TB x 2)
Disk Management	Create, Format and Remove Disk HDD S.M.A.R.T
Video	
Video Output	HDMI
Resolution	1920x1080, 1280x720
Graphics Decoder	Hardware decoding
Decoding Capacity	H.264: 1920x1080 @ 30 fps (1-CH) 1280x720 @ 120 fps (4-CH) 640x480 @ 240 fps (8-CH)
Camera Position	Change the view cell position
External I/O	
USB	Front: 1 (USB 2.0) Back: 1 (USB 2.0)
Network	
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter
Interface	1 x 10/100/1000Mbps
Transform Gateway	Supported

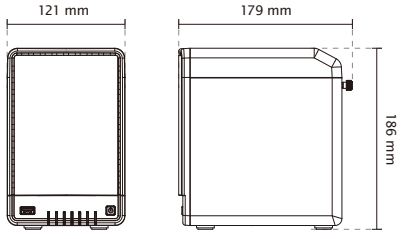
Power	
Power Input	DC 12V 5A
Power Consumption (W)	Max. 60 W
LED Indicator	
LED Indicator	Power, Status, LAN, HDD1, HDD2, Alarm, Record
Mechanic	
Form Factor	Tower
Operation Buttons	Power (Front) / Reset (Back)
Dimensions	121 mm (W) x 179 mm (D) x 186 mm (H)
Weight	0.92 kg
Operating Temperature	0 ~ 40˚C
Humidity	0 ~ 95%
General	
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick
Warranty	24 months
System Requirements	
Operating System	Microsoft Windows OS: XP/Vista/7/8/2008/2012
CPU	Intel Celeron or above
Memory	2 GB or above
Ethernet	10/100Mbps
Display Resolution	1024 x 768 pixels or above
Web Browser	Internet Explorer 10 (32 bit) or above
Software AP	Installation Wizard 2, ST7501, VAST
Mobile APP, Tablet APP	iViewer (iOS) iViewer (Android)
Accessories	
CD	User's Manual, Quick Installation Guide (QIG), Installation Wizard 2, ST7501
Others	Power Adapter, Power Cord, Quick installation guide, Warranty card, H.D.D. Screws x 4, H.D.D. Brackets x 2, USB Mouse

Software Information

Record	
Maximum Channel	8
Record throughput	32 Mbps
Network throughput	16 Mbps
Audio Format	G.711, G.726, AMR, AAC
Video Format	MJPEG, H.264 AVC
Video Resolution	VGA, 1MP, 2MP All Device & 3MP Fisheye Camera
Recording Time (sec.)	Pre-Record: 5 (max. 10) Post-Record: 20 (max. 300)
Recording Stream	Single
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming
Recording Setting	Recycle (unit: Day)
Recording Path	Local Path
Record Video Format	3GP
LiveView (Local Display)	
Stream Application	Auto Adaptive Stream
LiveView Display	8 Channel Multi Layout display: 1x1, 1x3 (Corridor Format), 2x2, 3x3, 1+5, 1+3, 1+1+3 (1P), 1+3+3 (1P)
Monitor Enhancement	OSD Display (NVR), OSD Display (Camera), Camera Information, Remote I/O Control, Event Notification, Aspect Ratio, PiP Control Fisheye Dewarp: 1O, 1P, 1R, 1O3R
PTZ Control	Panel Control
PTZ Operation	Direction Control, Home, Iris, Preset, Patrol (Group)
Snapshot	JPEG
Video Clip Export	EXE
Playback (Local Display)	
Playback Display	1 Channel Layout display: 1x1
Playback Control	Play, Pause, Rewind, Next / Previous Frame, Speed Control
Search Mode	Calendar, Event, Timeline, Timeline Scale, Storyboard
Monitor Enhancement	OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control Fisheye Dewarp: 1O, 1P, 1R, 1O3R
Snapshot	JPEG
Video Clip Export	EXE
LiveView (Remote)	
Stream Application	Stream Selection
Audio Capability	One Way
LiveView Display	8 Channel Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5
Monitor Enhancement	OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, PiP Control Fisheye Dewarp: 1O, 1P, 1R
PTZ Control	Panel Control
PTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group)
Snapshot	JPEG
Playback (Remote)	
Playback Display	4 Channel Multi Layout display: 1x1, 2x2, 1+3
Playback Control	Regular (Play, Pause, Stop), Next Frame, Speed Control
Search Mode	Calendar, Timeline, Timeline Scale, Bookmark
Monitor Enhancement	OSD Display (NVR), Drag & Drop, Audio Control, PiP Control Fisheye Dewarp: 1O,1P,1R
Snapshot	JPEG
Video Clip Export	EXE, 3GP

Alarm Management	
Schedule Type	Continuous, Schedule, Manual
Event	Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnormal, Storage Full
Action	Record, Email (Snapshot), FTP, Digital Output (Camera), Buzzer, PTZ Control (Go to Preset)
Recording Time (sec.)	Pre-Record: 5 (max. 10), Post-Record: 20 (max. 300)
Backup	
Manual	USB Dongle (FAT Format)
System	
User Management	User Account: 16 User Account Time Limit: 10 mins (Local Display) User Level: Administrator / Regular User User Feature Definition: By Camera
Log	System, Recording, User, Error
Date & Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Firmware	Manual update
Restore Default	Supported
Backup/Restore (Configuration)	Supported
Language	Czech, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese
Camera Integration	
Insert Camera	Manual, Search
Video (Media) Setting	Compression, Resolution, FPS, Video Quality
Image Setting	Image Display Image Adjustment
PTZ Control	Panel Control
PTZ Operation	Direction Control, Home, Preset, Patrol (Group)
Motion Detection	Supported
Activity Adaptive Stream	Supported
Device Integration	
UPS	APC Model Compatible

Dimensions



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