



V Series

ND9441

H.265 16-CH Embedded NVR



Technical Specifications

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Descriptions	16-CH Embedded NVR
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Device

OS	Embedded Linux
Watchdog	Hardware + Software
Power Restoration	System Restart Automatically after Power Recovery

Display

LiveView Display	16 Channels Multi Layout Display: 1x1, 1M+5, 1M+12, 1P+3, 1P+6, 2x2, 2P+3, 3x3, 3V, 4x4
Video Output	HDMI x1, VGA x1
Display Resolution	3840x2160, 1920x1080, 1280x720
Stream Application	Constant\Auto Adaptive Stream
Fisheye Dewarp	Local: 10, 1P, 1R, 103R, 108R
PTZ Operation	Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control

Video

Video Format	MJPEG, H.264, H.265
Graphic Decoder	Hardware decoding
Decoding Resolution	Up to 7680x2560
Decoding Capability	H.265/H.264: 3840x2160 @ 120 fps 1920x1080 @ 480 fps

Audio

Audio Format	G.711, G.726
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Record	
Recording Time (sec.)	Pre-Record: 5 (Max. 10) Post-Record: 20 (Max. 300)
Recording Stream	Single
Recording Throughput	192 Mbps
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming
Recording Setting	Recycle (unit: Day)
Watermark	Supported

Storage & Backup	
DISK Devices	Internal x4 (3.5") (HDD is purchased by separately)
HDD Max. Capacity	Please refer to HDD supported list on VIVOTEK website
RAID	RAID 0, 1, 5 (single volume up to 16TB)
Disk Management	Create, Format and Remove Disk, HDD S.M.A.R.T
External Storage	USB Storage (USB 3.0)
Video Clip Export	USB pen drive (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)
Video Search	Calendar Date/Time Alarm
Thumbnail Explorer (Storyboard)	Listing the thumbnail of recorded video (Max. 2 CH)
Snapshot	JPEG
Video Clip Export	EXE

Network	
Ethernet	10/100/1000Mbps Ethernet (RJ-45) x2
Network Throughput in total	96 Mbps
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS

External Interface	
USB	Front: 2 (USB 2.0) Back: 1 (USB 3.0)
Alarm In	x8 (max. 30VDC)
Alarm Out	x4 (DO: max. 1A/30VDC)
Audio In	3.5 Phone Jack Audio Input x1 (HW available, FW feature not supported yet)

RS485	1 (HW available, FW feature not supported yet)
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System	
Camera Integration	ONVIF Profile S
Event	Motion Detection, Smart VCA Event, Cyber Attack, PIR Detection, Tampering Detection, Camera DI/DO, Camera Disconnected, Disk Failure, Disk Full, NVR DI/DO, PoE error
Event Action	Record Email (Text) Email (Snapshot) FTP Buzzer ePTZ Control (Go to Preset) NVR DO Camera DO VIVOCLOUD APP Notification
User Management	User level: administrator, regular user
Log	System Recording User Error
Date&Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time
Language	Czech, English, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Simplified Chinese, Traditional Chinese, Arabic

Advance Features	
VCA Counting Solution	Supported
VCA Event Search	Smart VCA, Smart 360 VCA
Smart Search II	Supported
Trend Micro IoT Security	Supported (3-year free trial)
Cybersecurity Management	Supported

Remote Client	
Software AP	Shepherd, VSS
Mobile/Tablet App	iViewer (Android & iOS)
Web Browser	Chrome
Cloud service	VIVOCLOUD

General	
Power Input	DC 56V 1.34A
Power Consumption	Max. 76 W
Dimensions	400 (D) x 430 (W) x 45 (H) mm
Weight	3.87 kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Humidity	0 ~ 95%
Safety Certifications	CE, LVD, FCC, VCCI, C-Tick, UL

