



V Series

ND9441

H.265 16-CH Embedded NVR



Technical Specifications

| Technical Specifications | |
|--------------------------|---|
| Descriptions | 16-CH Embedded NVR |
| Device | |
| OS | Embedded Linux |
| Watchdog | Hardware + Software |
| Power Restoration | System Restart Automatically after Power Recovery |
| Display | |
| LiveView Display | 16 Channels Multi Layout display: 1x1, 2x2, 3x3, 1P+3, 2P+3, 1M+5, 1P+6, 3V, 1M+12, 4x4 |
| Video Output | HDMI x1, VGA x1 |
| Display Resolution | 3840x2160, 1920x1080, 1280x720 |
| Stream Application | Constant\Auto Adaptive Stream |
| Fisheye Dewarp | 10, 1P, 1R, 1O3R, 1O8R |
| 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 |

Record

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|-----------------------|--|
| 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

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| 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

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|---------------------------------|--|
| 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 | By Calendar, Date/Time, and Alarm |
| Thumbnail Explorer (Storyboard) | Listing the thumbnail of recorded video (Max. 2 CH) |
| Snapshot | JPEG |
| Video Clip Export | EXE |

Network

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|-----------------------------|---|
| Ethernet | 10/100/1000Mbps Ethernet (RJ-45) x 2 |
| 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

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|-----------|--|
| USB | Front: 2 (USB 2.0) Back: 1 (USB 3.0) |
| Alarm In | 8 |
| Alarm Out | 4 |
| 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) |

| 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 | 430 (W) x 400 (D) x 44.5 (H) mm |
| Weight | 3.87 kg (without HDD) |
| Operating Temperature | 0°C ~ 40°C (32°F ~ 104°F) |
| Humidity | 0 ~ 95% |
| Safety Certifications | CE, LVD, FCC, VCCI, C-Tick, UL |