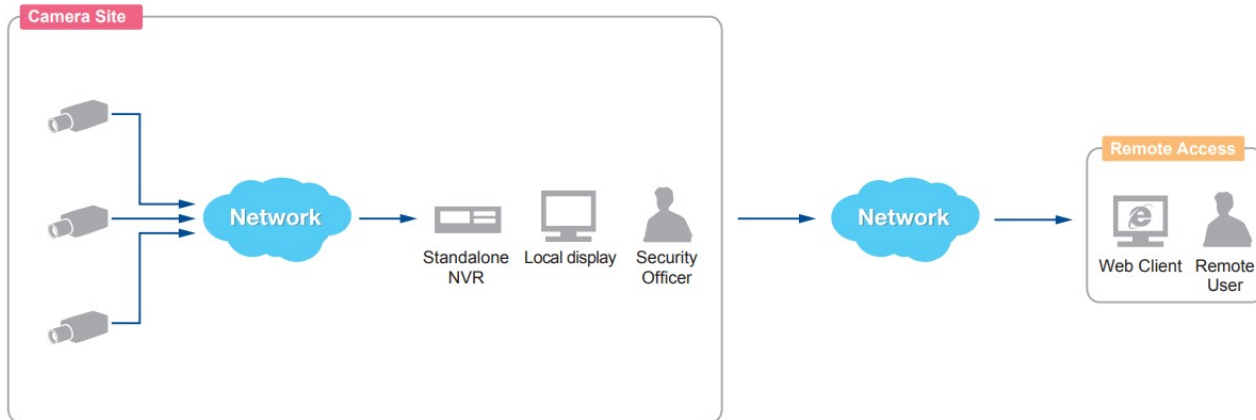# ENR-421

**32-Channel Rackmount Standalone NVR**

- 4-bay Rackmount Standalone NVR
- Rack Space: 1U
- Maximum Number of Video Devices: 32
- Free License: 32
- Event trigger, response and notification
- Web Client, Mobile Client
- Video export formats: RAW, AVI
- Location-based management with e-Map
- Hi3536, 4GB

## ▶ Solution Diagram



Remote User: Administrator / Supervisor / Manager / Security Officer

## ▶ Specifications

### Device

| Product Type | Standalone NVR |
|---|---|
| Maximum Resolution | Support all ACTi cameras in all resolutions |
| Maximum Number of Video Devices | 32 |

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• All specifications are subject to change without notice.

Page 1 of 7

| Maximum Number of POS devices | 32 |
|---|---|
| Maximum Number of Access Control and Network I/O devices | 32 |
| Maximum Number of Clients | Local: 1, Remote: 2 |
| Supported Screen Resolution | HDMI: 1080p, 4K2K (Output 4k2k to TV monitor will be supported through future firmware upgrade.) |

## Hardware

| CPU | Hi3536 |
|---|---|
| RAM | 4GB |

## License

| License required | No |
|---|---|
| Free License | 32 |

## Live View

| Display Layout Mode | Custom dynamic layouts by grid merging, local up to 16 video channels, remote up to 32 video channels |
|---|---|
| Fisheye Dewarping | Local: Yes*, Remote: Yes |
| Local Live View performance | Please check "Standalone NVR Performance Validator" (http://www.acti.com/SANVRPerformance) |
| Digital Zoom | Yes (available for remote web client) |
| Event Status | Display event status upon alarm or upon connection loss or recovery between server and client |
| Instant Playback | Instant Playback in live view window |

## Map

| e-Map | Yes* |
|---|---|
| Google Map | Yes* |

## PTZ

| PTZ Control | PTZ Control, Speed Control, 32 preset points |
|---|---|

## Video

| Compression | H.265, H.264, MJPEG |
|---|---|
| Text Overlay | Yes |

## Audio

| Audio Type | 2-way, Line-in, Line-out |
|---|---|

## Network

| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP (Server/Client), PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, SMTP, ICMP, ARP, UPnP, iSCSi, Samba, NFS, SNMP |
|---|---|
| Ethernet Port | Total ports: 2 port(s) Non-PoE: 2 port(s), Ethernet (1000 Base-T), RJ-45 connector |

## Recording

| Scheduled Recording | Yes |
|---|---|
| Event Recording | Yes |

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Page 2 of 7

| Manual Recording | Yes |
|---|---|
| Event Speed-up Recording | Yes |
| Dual Stream Management | Yes |
| Maximum Recording Throughput | 300 Mbps |

## Search & Playback

| Playback Control | Continuous forward and backward playback with speeds 0.125x/0.25x/0.5x/1x/2x/4x/8x/16x, pause, stop |
|---|---|
| Synchronized Playback | 16 channels |
| Recording Search | Search video recordings by time, events, channels and bookmarks* |
| Video Export | RAW, AVI |

## Event

| Event Trigger | [NVR]: Disk full, Disk not found, System booted successfully, Expiration of user accounts, Expiration of specific event schedule, Event action failed, S.M.A.R.T test failed.<br><br>[Video Device]: Video motion detection, External device through digital input, Sound detection, Video loss, Video Recovery, Network loss and recovery, Intelligent event detection (ACTi IVS Cameras).<br><br>[Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status |
|---|---|
| Event Response | Play alert sound, Activate external device through digital output, E-mail notification with snapshots, Go to PTZ preset point or preset tour, Command other devices, Push notification |

## System

| Permission control | Unlimited number of users, Active Directory*, Customizable permissions for user groups*, Account lockout*, Automatic logout after idle* |
|---|---|
| Client PC Operating System | Windows 10, Windows 8.1, Windows 7 SP1 |
| Server Operating System | Embedded Linux |
| Mobile Client Program | Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Event/time based search and playback, Supported device(s) iOS, Android device |
| USB | 2-Port USB 2.0, 1-Port USB 3.0 |
| Language | Multi-Language |

## Integration

| Unified Solution | Fully compatible with ACTi Cameras, Video Encoders, Central Management System*, TV Wall Server*, Intelligent video surveillance software |
|---|---|
| ONVIF Compliant | Yes, Profile S |
| Web Browser | IE 11 (Please verify that your computer meets the minimum system requirements for Internet Explorer from Microsoft website.) |
| Auto Firmware Upgrade | Yes |
| Third-party Integration | Point of Sale (POS), Parking Management Station (PMS), Access Control, Network I/O |

## Storage

| Storage Bay | SATA, Max. 4 Disk(s) (without storage disks) |
|---|---|
| HDD Size | 3.5" |

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Page 3 of 7

| Maximum Recording Capacity | 14TB x4 |
| --- | --- |
| Supported Storage | Video Recording: SATA disk, iSCSI Export*: USB, iSCSI, Samba, NFS |

## Interface

| Digital Input/Output | 2/2 |
| --- | --- |
| External Storage Interface | iSCSI |
| Local Access | USB keyboard & mouse |
| Local Display Interface | HDMI x 1, |

## General

| Power Source | AC 100-240V |
| --- | --- |
| Weight | 7011g (15.457lb) |
| Dimensions | Rack Space: 1U (W x H x D): 438.4mm x 43.6mm x 505.59mm (17.2" x 1.69" x 19.8") |
| Bundled Accessories | Power Adapter |
| Fan | Yes |
| Operating Temperature | 0°C ~ 40°C (32°F ~ 104°F) |
| Remote Access | Web Client, Mobile Client |
| Approvals | CE, FCC, UL (for built-in power adapter) |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

* To be available through future firmware upgrade

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Page 4 of 7

# ▶ Photo Indication
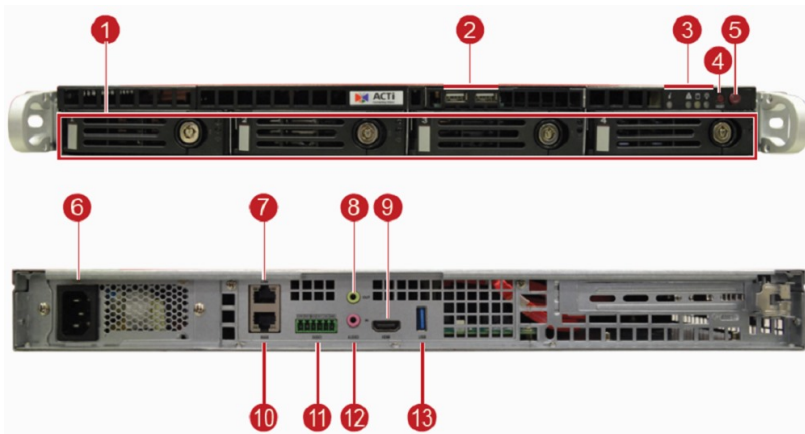


1 HDD Bay
2 USB 2.0 Ports
3 LED Indicators
4 Reset Button
5 Power Button
6 Power Input Connector
7 LAN Ports
8 Audio Output Jack
9 HDMI Port
10 WAN Port
11 Digital Input/Output
12 Audio Input Jack
13 USB 3.0 Port

# ▶ Dimension Diagram



Unit: mm [inch]

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Page 5 of 7
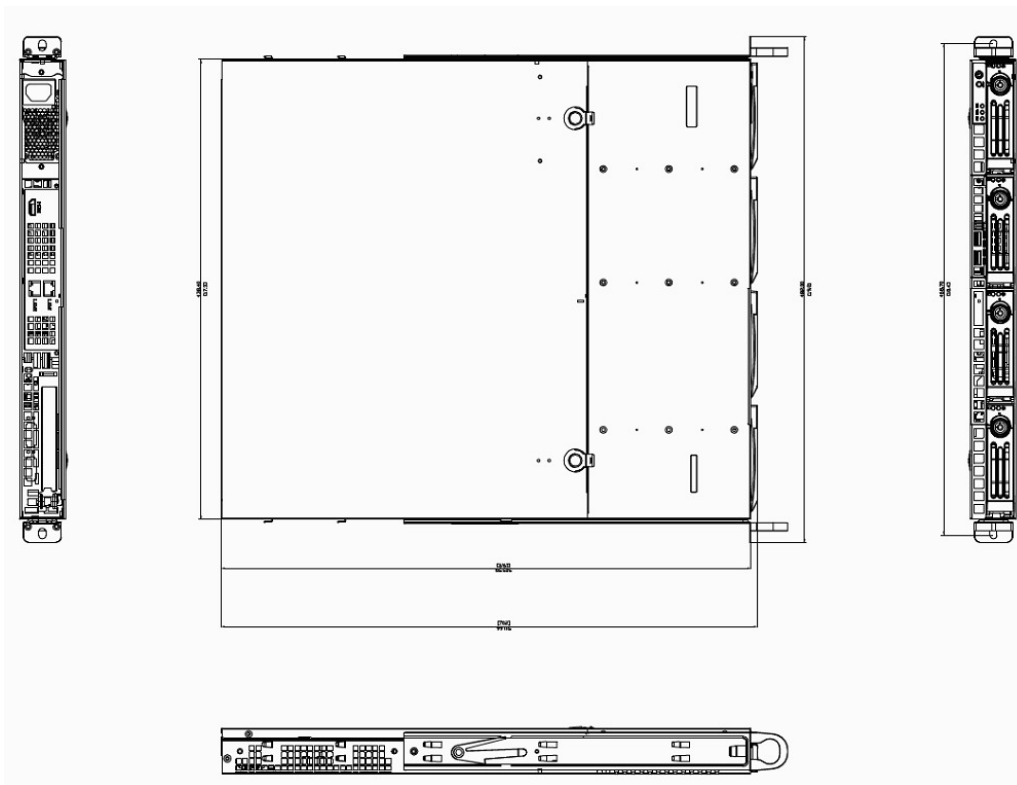
# ▶ Ordering Information

| LEXD1000 | The license is for access control reader and network I/O device to work on ACS-100, Access Control Standard Server. The number of add-on device supported: 1-300 (ACS-100), No Limit (Access Control Standard Server). Price listed is for single device add-on license. |
|---|---|
| LPOS1000 | The license is for POS register to work on . Price listed is for single device add-on license. |

# ▶ Related Products

## Mounting Accessories - Standalone NVR Mount

| PMAX-1202 | | 19" Rackmount Rails for CMS-200, ENR-190, ENR-420, ENR-421, LPR-120 |
|---|---|---|
| PMAX-1203 | | 26" Rackmount Rails for CMS-200, ENR-190, ENR-420, ENR-421, LPR-120 |

**Note**: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.

## Network & Storage Peripherals - Hard Disk

| PHDD-2200 | | WD WD1005FBYZ 1TB 3.5" Hard Disk Drive, 7200 RPM 128 MB Cache (for ENR-0x0P, ENR-110, ENR-120, ENR-130, ENR-22x, ENR-22xP, GNR-310, GNR-320, INR-100, INR-340, INR-430, INR-440, INR-450, INR-460) |
|---|---|---|
| PHDD-2301 | | HGST ULTRASTAR 7K6000 2TB 3.5" Hard Disk Drive, 7200 RPM 128MB Cache (for ENR-1xx,ENR- 0x0P, ENR-22x, ENR-22xP) |
| PHDD-2501 | | HGST ULTRASTAR 7K6000 4TB 3.5" Hard Disk Drive, 7200 RPM 128MB Cache (for ENR-1xx, ENR-0x0P, ENR-22x, ENR-22xP) |
| PHDD-2702 | | HGST ULTRASTAR 7K6000 6TB 3.5" Hard Disk Drive, 7200 RPM 128MB Cache (for ENR-1xx, ENR-0x0P, ENR-22x, ENR-22xP) |
| PHDD-2900 | | WD WD8002FRYZ 8 TB 3.5" Hard Disk Drive, 7200 RPM 128 MB Cache (for GNR-310, GNR-320, INR-100, INR-340, INR-410, INR-430, INR-440, INR-450, INR-460) |
| PHDD-2A00 | | WD WD101KRYZ 10TB 3.5" Hard Disk Drive, 7200 RPM 256MB Cache (for ENR-xxx, ENR-xxxP, GNR-330, GNR-410, INR-100, INR-340, INR-410, INR-430, INR-440, INR-450, INR-460, INR-470) |
| PHDD-2B01 | | HGST ULTRASTAR 7K6000 12TB 3.5" Hard Disk Drive, 7200 RPM 256MB Cache |
| PHDD-2E01 | | HGST ULTRASTAR 7K6000 14TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache |

## Controllers - Joystick

| PJSK-0100 | | Apem 100-550-BLK-RF Joystick for PTZ Control (for all ENR, INR, and MNR Series) |
|---|---|---|

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Page 6 of 7

## Audio Devices - Microphone

PMIC-0101        YLD-122 Active Microphone (for ENR)

2020/8/17

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