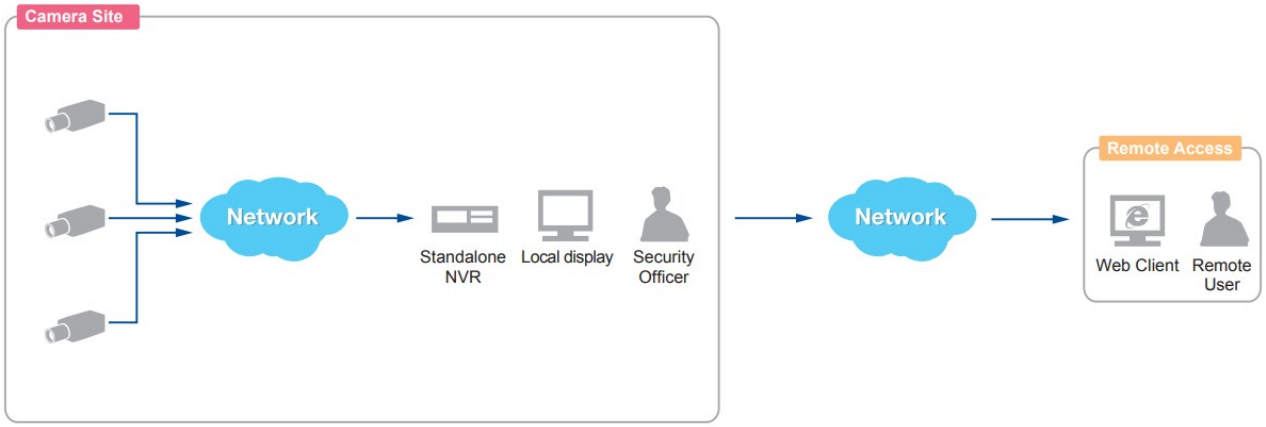
ENR-421

32-Channel 4-Bay 1U Rackmount Standalone NVR



- 32 channels, 32 Free Licenses
- 4 Storage Bay(s)
- SATA, iSCSi, USB
- Rack Space: 1U, Rackmount Standalone NVR
- Embedded Linux
- Hi3536, 4GB
- Digital Input/Output, HDMI x 1,
- Web Client, Mobile Client
- Multi-Browser Support

Solution Diagram



Remote User: Administrator / Supervisor / Manager / Security Officer

Specifications

Product Profile

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

Maximum Number of POS devices	32
Maximum Number of Access Control and Network I/O devices	32
Maximum Number of Clients	Local: 1, Remote (Web client or Workstation): 2, Remote (Mobile Client): 1
Supported Screen Resolution	HDMI: 1080p, 4K2K

Hardware

System Architecture	Embedded SoC-based (ARM platform)
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	Yes (Live View, Playback, Export)
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

PTZ

PTZ Control	PTZ Control, Speed Control, 32 preset points

Backup

Automatic Recording Backup	Yes, Pre-scheduled recording backups using the Backup Server.

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), HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, SMTP, ICMP, ARP, UPnP, iSCSi, SMB/CIFS (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
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. [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). [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*
Server Operating System	Embedded Linux
Client PC Operating System	Windows 10, Windows 8.1, Windows 7 SP1
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 (officially listed as ONVIF conformant at www.onvif.org)
Web Browser	IE 11, Google Chrome, Microsoft Edge, Apple Safari
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"
Maximum Recording Capacity	14TB x4
RAID Level	No
Supported Storage	Video Recording: SATA disk, iSCSI Video Exporting: Remote PC (local drives, USB), iSCSI, Samba, NFS

Interface

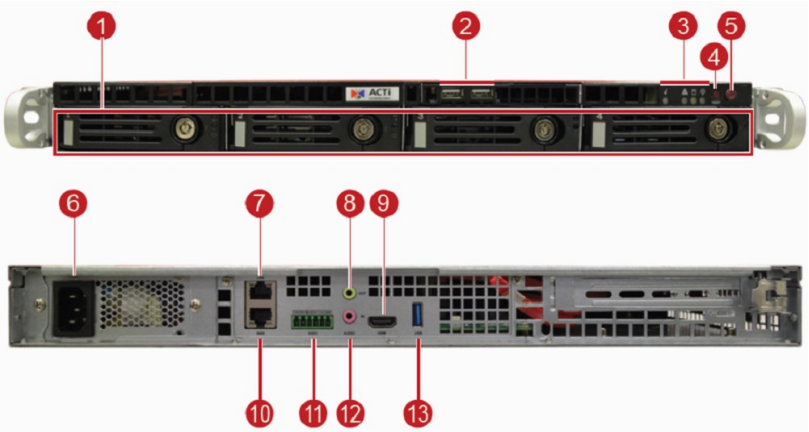
Digital Input/Output	2/2
External Storage Interface	iSCSI
Local Access	USB keyboard & mouse
Local Display Interface	HDMI x 1,

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

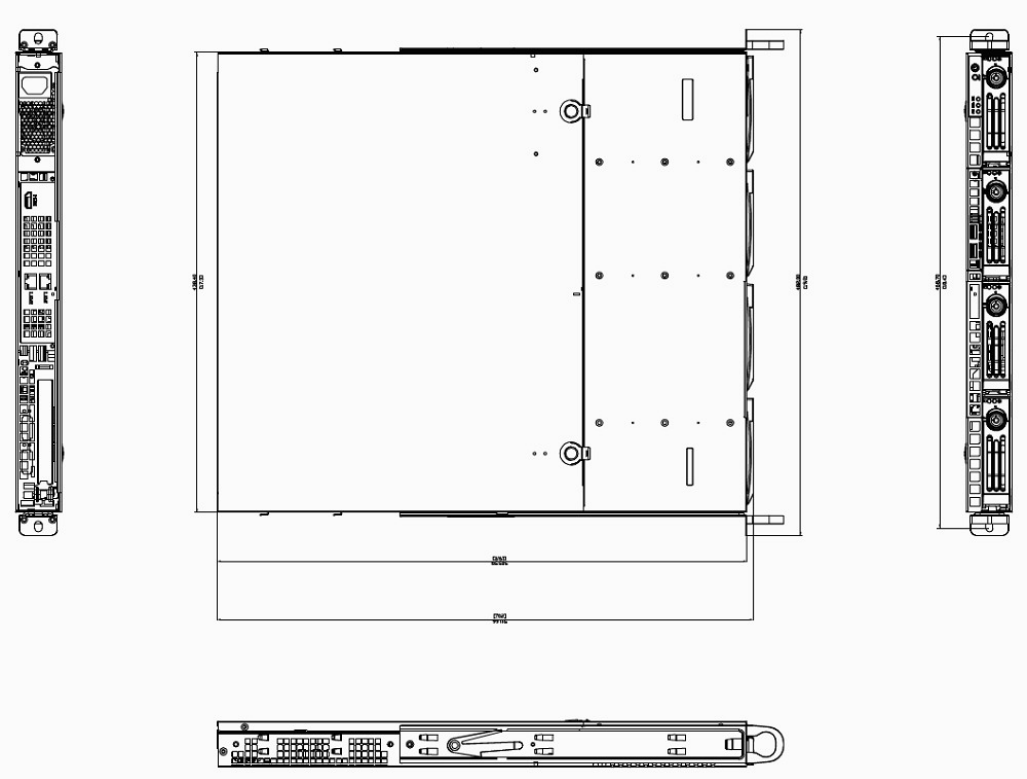
* To be available through future firmware upgrade

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]

Ordering Information

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		WD Ultrastar 6TB 3.5" Hard Disk Drive, 7200 RPM 256MB Cache
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

Network & Storage Peripherals - Extended Storage Device

PSTR-0405		QNAP TS-1232PXU-RP-4G 2U 12-Bay NAS RAID Storage Device (for All GNR、ENR、INR and ZNR Series)

Controllers - Joystick

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

Audio Devices - Microphone

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