

INR-470

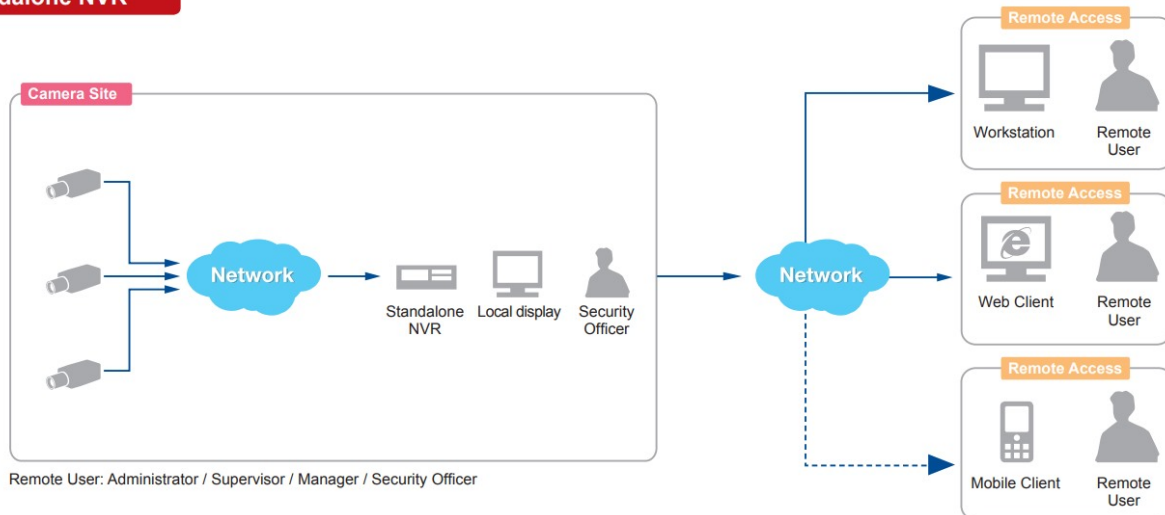
256-Channel RAID Rackmount Standalone NVR with Redundant Power Supply



- 12-bay 2U Rackmount Standalone NVR
- Maximum Number of Video Devices: 256 (Free License: 64)
- Hardware RAID 0, 1, 5, 6, 10, 50, 60
- Multi-Browser Support for Lite Web Client
- System Monitoring and Notifications
- Redundant Power Supply
- Location-based management with e-Map & Google Map
- Workstation, Web Client, Mobile Client
- Event Trigger, Response, Notification and Snapshot to Line Messenger
- Intel Xeon Silver 4210, 16GB

▶ ****Solution Diagram****

Standalone NVR



▶ Specifications

Device

Product Type	Standalone NVR
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Maximum Resolution	Support all ACTi cameras in all resolutions
Maximum Number of Video Devices	256
Maximum Number of POS devices	256 (requires additional license)
Maximum Number of Access Control and Network I/O devices	256 (requires additional license)
Maximum Number of Clients	Local: 1, Remote: 5

Hardware

CPU	Intel Xeon Silver 4210
RAM	16GB, DDR4, 2666MT/s, 24 DIMM slots, maximum up to 3TB

License

License required	Yes
Free License	64 (64 channels for ACTi and 1 channel for third-party video device)

Live View

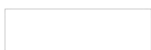
Display Layout Mode	Local: 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (IE client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64 Remote (Lite web client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (Workstation): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, 81, 100, 121 (11x11), 144 (12x12), 169 (13x13), 196 (14x14), 225 (15x15) ** NVR 3 display grid cells can be merged into different shape and size.
Fisheye Dewarping	Yes
Local Live View performance	Please check "Standalone NVR Performance Validator" (http://www.acti.com/SANVRPerformance)
Digital Zoom	Yes
Event Status	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full
Instant Playback	Instant Playback in live view window
Embedded websites in Live View	Display and connect to pre-configured embedded website

Map

e-Map	Yes
Google Map	Yes
Layout	Area maps with camera icons, small live view windows, hyperlinked
Setup	e-Map image upload, Google maps settings and preset management, camera positioning, vision angle and pointed direction of camera, view positioning, source positioning, extended devices for Point-of-sale (POS), Access Control, Network I/O
PTZ Mode	Mouse PTZ mode to control e-Map video streams

PTZ

PTZ Control	PTZ Control, Speed Control, 32 preset points
Joystick	USB based joystick supported



Video

Compression	H.265, H.264, MPEG-4, MJPEG
Hardware Accelerated Decoding	Yes (for workstation PC only), H.264, H.265
Built-in Analytics	Visual Tracking

Network

Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP Client, HTTP, HTTPS, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client), iSCSi
Ethernet Port	Total ports: 4 port(s) Non-PoE: 4 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	500 Mbps (with at least 2 groups of RAID5)

Search & Playback

Playback Control	Continuous forward and backward playback with speeds (1/64, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16, 32, 64, 128, 256) or frame-by-frame, pause, stop
Synchronized Playback	up to 225 layout grids**
Recording Search	Search video recordings by time, events, channels, bookmarks, notifications and listed as clickable time-based thumbnails for full-size view and snapshot download
Smart Search	Smart search of recorded video by Motion Detection and Tamper
Video Export	RAW, AVI, MP4, EXE, GPU Hardware accelerated video export supported with AVI format
Snapshot Export	BMP, JPEG, PNG

Event

Video Push	Support Video Push from ACTi Mobile Client devices
Event Trigger	<p>[NVR]: Disk full, Disk not found, Disk is available, S.M.A.R.T. Failure and Normal, Schedule service start and stop, Video Push start and stop, Time Backward, CPU limit exceeded for Server PC, CPU limit exceeded for NVR services, GPU Loading Detection for workstation only, Memory limit exceeded for Server PC and NVR services, Network Send/Receive Limit Exceeded for Server PC.</p> <p>[Video Device]: Video motion detection, Passive IR sensor, External device through digital input, Sound detection, Intelligent event detection, Video Push start and stop, Video loss and recovery, Disk Write Failure and Available.</p> <p>[Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status</p>

Event Response	Pop-up window with live video and event confirmation activation, Switch to hotspot window, Switch to customize view, Command a PTZ device to go to a preset point, Play alert sound, Activate external device through digital output, Execute system command to activate other programs, Upload video or snapshot to FTP server, E-mail notification with snapshots, Push notification, Send Snapshot to Line Messenger
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Redundancy Server

Redundancy Service	Yes, N-to-N, N+1 (With limited functions when NVR 3 server acts as Redundancy server)
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System

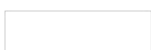
Permission control	Unlimited number of users, Active Directory, Customizable permissions for user groups, Account lockout, Automatic logout after idle, Playback password protected, Password validity period, Password Expiration Notification
Watchdog	Support
Client PC Operating System	Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Server and Client PC requirements	Please use https://www.acti.com/pcselector For client PC requirements, please check the Performance: Live View section.
Server Operating System	Windows 10 IoT
Mobile Client Program	Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Event/time based search and playback
USB	2-Port USB 2.0, 2-Port USB 3.0
Language	Multi-Language

Integration

Unified Solution	Fully compatible with ACTi cameras, encoders, central management system, TV wall and intelligent video surveillance software
GPS Position	Manual setting
Edge Recording	Automatically restore the lost videos from the memory card of camera to NVR server via ONVIF (Profile G) or proprietary protocol integrations after network connection recovery.
ONVIF Compliant	Yes, Profile S (contains the officially ONVIF conformant software NVR 3 Corporate)
Web Browser	IE 11 (Please verify that your computer meets the minimum system requirements for Internet Explorer from Microsoft website.), Lite web client: Microsoft Edge 80.0.361.66 (Normal mode) or newer, Google Chrome 71.0.3578 or newer, Firefox 64.0.2 or newer, Apple Safari 12.0.2 or newer
Third-party Integration	Point of Sale (POS), Access Control, Network I/O, Parking Management Station (PMS), (Various optional integrations requiring additional license)

Storage

Supported Storage Technology	NAS, SAN
System Drive	2.5" SAS HDD, 600GB x 2 Disk(s)
Storage Bay	SAS/SATA, Max. 12 Disk(s) (without storage disks)
Removable Tray	Yes
Hot Swappable Drive	Yes
HDD Size	3.5"
Maximum Recording Capacity	22TB x12



RAID Level	Hardware RAID 0, 1, 5, 6, 10, 50, 60
Supported Storage	Video Recording: SATA disk, iSCSI Video Exporting: iSCSI, USB

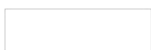
Interface

Serial Port	1 x RS-485/RS-422
External Storage Interface	iSCSI, USB
Expansion Slots Available	3 x PCIe 3.0 (x8)
Local Access	USB joystick, keyboard & mouse
Local Display Interface	VGA x 2

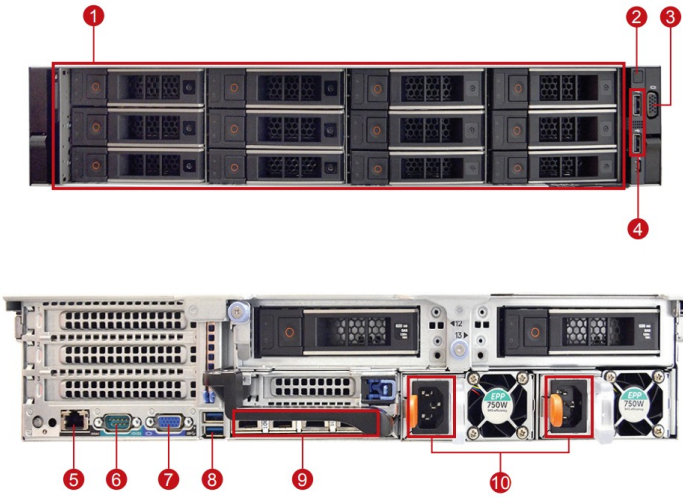
General

Power Source	AC 100-240V
Redundant Power Supply	Yes
Power Supply	2 x 750W
Weight	28100g (61.95lb)
Dimensions	(W x H x D): 482.6mm x 88mm x 620mm (19" x 3.46" x 24.41") Rack Space: 2U
Bundled Accessories	Rackmount rails
Mount Type	Rack mounts
Fan	Yes
Operating Temperature	5°C ~ 40°C (41°F ~ 104°F)
Operating Humidity	5% - 85% RH
Remote Access	Workstation, Web Client, Mobile Client
Approvals	CE, FCC, UL Listed (UL 60950-1)
Color	Black
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

**** The actual maximum number of channels may vary depending on the server/client PC performance and network throughput.**















▶ Photo Indication




- 1 Storage Disk Bays
- 2 Power Button
- 3 VGA Port 1
- 4 USB 2.0 Ports
- 5 Service Port
- 6 Serial Port
- 7 VGA Port 2
- 8 USB 3.0 Ports
- 9 LAN Ports
- 10 Power Input

▶ Related Products

Network & Storage Peripherals - Hard Disk

PHDD-1F10		SAS 600G (Dell) System drive with Windows 10 and NVR software for INR-470
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
PHDD-2G00		WD Ultrastar 18TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache
PHDD-2H00		WD Ultrastar 16TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache
PHDD-2J00		WD Ultrastar 22TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache

Network & Storage Peripherals - Extended Storage Device

PSTR-0405		2U 12-Bay NAS RAID Storage Device (for all ENR, GNR, INR, ZNR series)
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