

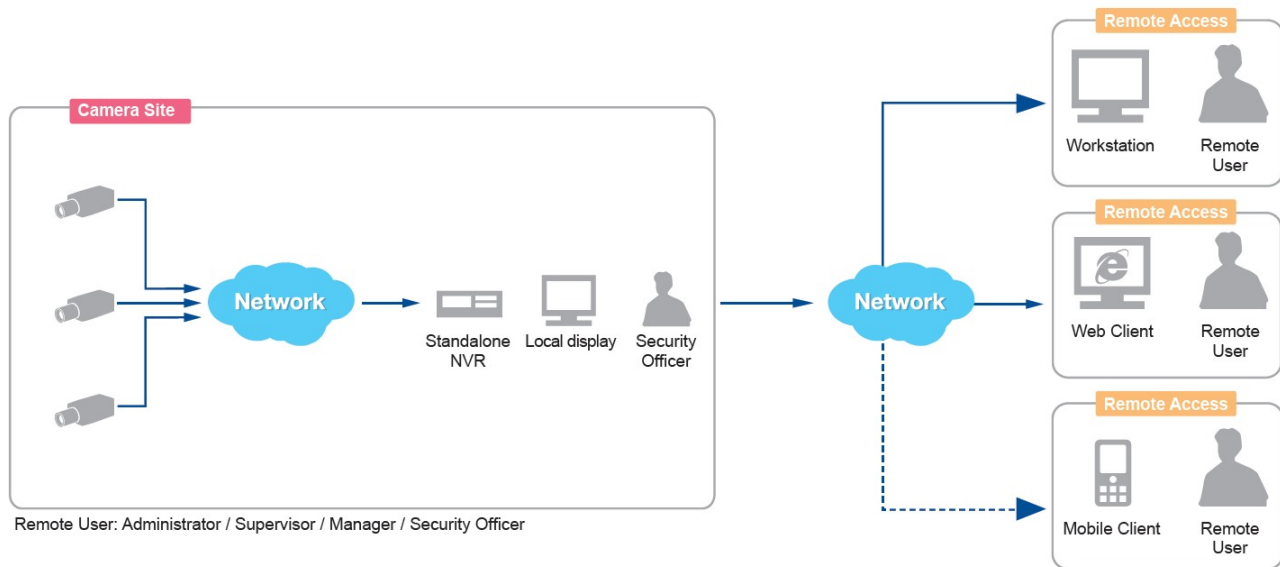
# INR-440

## 200-Channel RAID 2U Rackmount Standalone NVR with Redundant Power Supply



- 200 channels, 64 Free Licenses
- Storage Bay(s)
- Hardware RAID (Add-on Card) 0, 1, 5, 6, 10, 50, 60, (RAID 5: support up to 100 channels), SATA, iSCSi, USB
- Rack Space: 2U, Rackmount Standalone NVR
- Redundant Power Supply
- Windows 7 Embedded, Windows 10 IoT (Optional)
- Intel Quad Core Xeon 3.1G processor
- VGA x 1
- Workstation, Web Client, Mobile Client
- Multi-Browser Support

### \*\*Solution Diagram\*\*



## Specifications

### Product Profile

Product Type	Standalone NVR
Maximum Resolution	Support all ACTi cameras in all resolutions
Maximum Number of Video Devices	200
Maximum Number of POS devices	200 (requires additional license)
Maximum Number of Access Control and Network I/O devices	200 (requires additional license)
Maximum Number of Clients	Local: 1, Remote: 5

### Hardware

CPU	Intel Quad Core Xeon 3.1G processor
RAM	8GB

### 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) **
Fisheye Dewarping	Yes (Live View, Playback, Export)
Local Live View performance	Please check "Standalone NVR Performance Validator" ( <a href="http://www.acti.com/SANVRPerformance">http://www.acti.com/SANVRPerformance</a> )
Digital Zoom	Yes
Visual Tracking	Yes (Cross-camera tracking via pre-defined regions)
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

**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: 3 port(s) Non-PoE: 3 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 (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	9 channels (Local), 64 channels (Remote)
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
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
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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	<p>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</p>

**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
Server Operating System	Windows 7 Embedded, Windows 10 IoT (Optional)
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
Mobile Client Program	Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Supported device(s) iOS, Android device
USB	4-Port USB 2.0
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	SSD, 128GB

Storage Bay	SATA, Max. 12 Disk(s)
HDD Size	3.5"
Maximum Recording Capacity	14TB x12
RAID Level	Hardware RAID (Add-on Card) 0, 1, 5, 6, 10, 50, 60, (RAID 5: support up to 100 channels)
Supported Storage	Video Recording: SATA disk, iSCSI Video Exporting: iSCSI, USB

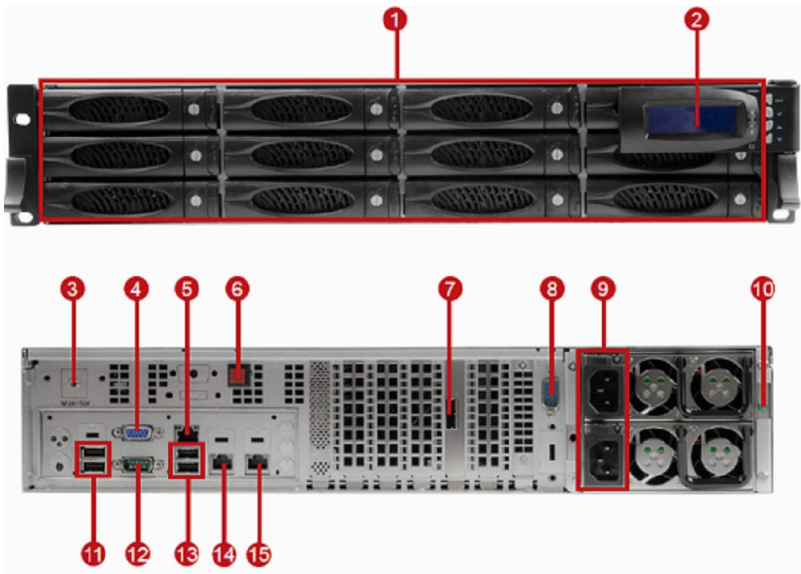
**Interface**

Serial Port	1 x RS-232
External Storage Interface	SAS, iSCSI, USB
Local Access	USB joystick, keyboard & mouse
Local Display Interface	VGA x 1

**General**

Power Source	AC 100-240V
Power Consumption	85.5 W (AC)
Redundant Power Supply	Yes
Weight	16400g (36.16lb)
Dimensions	(W x H x D): 482.6mm x 88mm x 560mm (19" x 3.46457" x 22.04724") Rack Space: 2U
Bundled Accessories	Rackmount rails
Mount Type	Rack mounts
Fan	Yes
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10% - 85% RH, non-condensing
Remote Access	Workstation, Web Client, Mobile Client
Approvals	CE, FCC, UL (for built-in power adapter)
Warranty	3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>

## Photo Indication





- 1 Storage Disk Bays
- 2 Smart Panel
- 3 RS-232 Port
- 4 VGA Port
- 5 LAN2
- 6 Power Switch
- 7 SAS Expansion Port
- 8 Serial Port 2
- 9 AC Power Input
- 10 Mute Button
- 11 USB Port
- 12 Serial Port 1
- 13 USB Port
- 14 LAN1
- 15 LAN 0

## Related Products


### 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
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


### Network & Storage Peripherals - Network IO Module

PIOB-0100		Advantech ADAM-6060 6 Digital Input and 6 Digital Output Network I/O Module
PIOB-0200		Advantech ADAM-4571 1-Port RS-232/422/485 Network I/O Module


### Controllers - Joystick

PJSK-0100		Apem 100-550-BLK-RF Joystick for PTZ Control (for all ENR, INR, and MNR Series)
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### Data Cables - USB-Serial Converter Cable

PIOC-0200		USB to RS-232 Serial Converter Cable
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### Other Accessories - Accessory Part

R718-B0002		Windows 10 LTSC 2019 License
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