INR-490

256-Channel 12-Bay RAID 2U Rackmount Standalone NVR with Redundant Power Supply



- 256 channels, 64 Free Licenses
- 12 Storage Bay(s), Hot Swappable Drive
- Hardware RAID (Add-on Card) 0, 1, 5, 6, 10, 50, 60
- Rack Space: 2U, Rackmount Standalone NVR
- Redundant Power Supply
- Windows Server 2022, NVR 3 Corporate
- Intel Xeon Silver 4309Y, 16GB
- VGA x 2
- Workstation, Web Client, Mobile Client
- Forensic Search, Event Search, Smart Search, Metadata Search
- Object Visual Tracking
- Multi-Browser Support

Specifications

Product Profile

Product Type	Standalone NVR
Maximum Resolution	Support all ACTi cameras in all resolutions
NVR Edition	NVR 3 Corporate
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

System Architecture	x86-based (Intel platform)
CPU	Intel Xeon Silver 4309Y
RAM	16GB, DDR4, 3200MT/s

License

License required	Yes
Free License	64 (64 channels for ACTiand 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 (Live View, Playback, Export)
Local Live View performance	Please check "Standalone NVR Performance Validator" (http://www.acti.com/SANVRPerformance)
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

Backup

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

Video

Video Source	ACTi cameras/encoders, ONVIF Cameras, Integrated 3rd-party cameras, Mobile Client, USB/Webcam
Compression	H.265 Adaptive Stream, H.264 Adaptive Stream, MPEG-4, MJPEG
Hardware Accelerated Decoding	Yes (for workstation PC only), H.264, H.265

Analytics

Analytics from Camera	Receive analytics based events from the cameras and respond to the events: Face Detection; Smart Motion Detection (People Detection, Vehicle Detection); Smart Intrusion Protection (Intrusion Detection, Line Crossing Detection, Enter Area Detection, Exit Area Detection); People Counting (People Line Counting, People Area Counting, People Flow Counting, Crowd Detection); Object Metadata; Object Recognition; Temperature Detection (Fire Detection, Smoking Detection, Smoke Detection, Temperature Measurement); Traffic Monitoring

Network

Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP Client, HTTP, HTTPS, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, Bonjour, UPnP, LDAP (client), iSCSi
Ethernet Port	2 x Ethernet (1000 Base-T), RJ-45 connector
Security	Support Trusted Platform Module 2.0 (TPM 2.0), Microsoft Defender for anti-malware protection, TLS v1.2, TLS v1.3

Recording

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Event Speed-up Recording	Yes
Dual Stream Management	Yes
Maximum Recording Throughput	550 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	225 channels
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
Event Search	Search within previously recorded AI events
Smart Search	Set ROI and look for the people and vehicles appearing in the ROI in the past recordings (requires cameras with Smart Motion Detection feature)
Forensic Search	Select target object (people, vehicle) and search for the similar object through all the channels
Metadata Search	Select attribute filters (color, gender, age, etc) and find thumbnails matching the criteria
Object Visual Tracking	View thumbnails generated by Forensic Search and playback by time sequence
Video Export	RAW, AVI, MP4, EXE, GPU Hardware accelerated video export supported with AVI format
Snapshot Export	BMP, JPEG, PNG
Embedded Media Player	Yes, supports up to 64 channels view

Event

Video Push	Support Video Push from ACTi Mobile Client devices

Event Trigger	[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. [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. [Access Control Server]: Access Allowed, Access Denied, Access Unknown, Access Expiration, Denied Time Zone, Egress, Duress, Alarm, Arm, Disarm. [Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status
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 LINE notification message

Redundancy Server

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

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
Server Operating System	Windows Server 2022
Client PC Operating System	Windows 7 SP1, Windows 8.1, Windows 10, Windows 11, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Server and Client PC requirements	For client PC requirements, please check the Performance: Live View section.
USB	2-Port USB 2.0, 1-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
CMS Support	Yes (ACTi CMS 2)
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	Profile S, Profile G, Profile T (officially listed as ONVIF conformant at www.onvif.org)
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

SD Card Backup and Recovery	Automatically back up the video recordings from the memory card of camera to Server via ONVIF (Profile G) integration with recovering lost videos after network connection recovery.
Third-party Integration	Point of Sale (POS), Access Control, Network I/O, (Various optional integrations requiring additional license)

Storage

Supported Storage Technology	NAS, SAN
System Drive	2.5” HDD, 1.2TB
Storage Bay	SATA, Max. 12 Disk(s) (3.5" 12 bays + 2.5" 2 bays; without storage disks)
Removable Tray	Yes
Hot Swappable Drive	Yes
HDD Size	3.5" 12 Bay(s), 2.5" 2 Bay(s)
Maximum Recording Capacity	22TB x12
RAID Level	Hardware RAID (Add-on Card) 0, 1, 5, 6, 10, 50, 60

Interface

Serial Port	1 x RS-232
External Storage Interface	iSCSI
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 800W
Dimensions	(W x H x D): 482mm x 86.8mm x 772.13mm (19.0" x 3.42" x 30.40"), with bracket Rack Space: 2U
Bundled Accessories	Rackmount rails
Mount Type	Rackmount rails (19")
Fan	Yes, 6 pcs
Operating Temperature	5°C ~ 40°C (41°F ~ 104°F)
Operating Humidity	5% - 85% RH, non-condensing
Remote Access	Workstation, Web Client, Mobile Client
Approvals	CE Class A, FCC Class A
Color	Silver
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.

Related Products

Network & Storage Peripherals - Hard Disk

PHDD-2J00		WD Ultrastar 22TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache
PHDD-2M00		WD Ultrastar 24TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache