

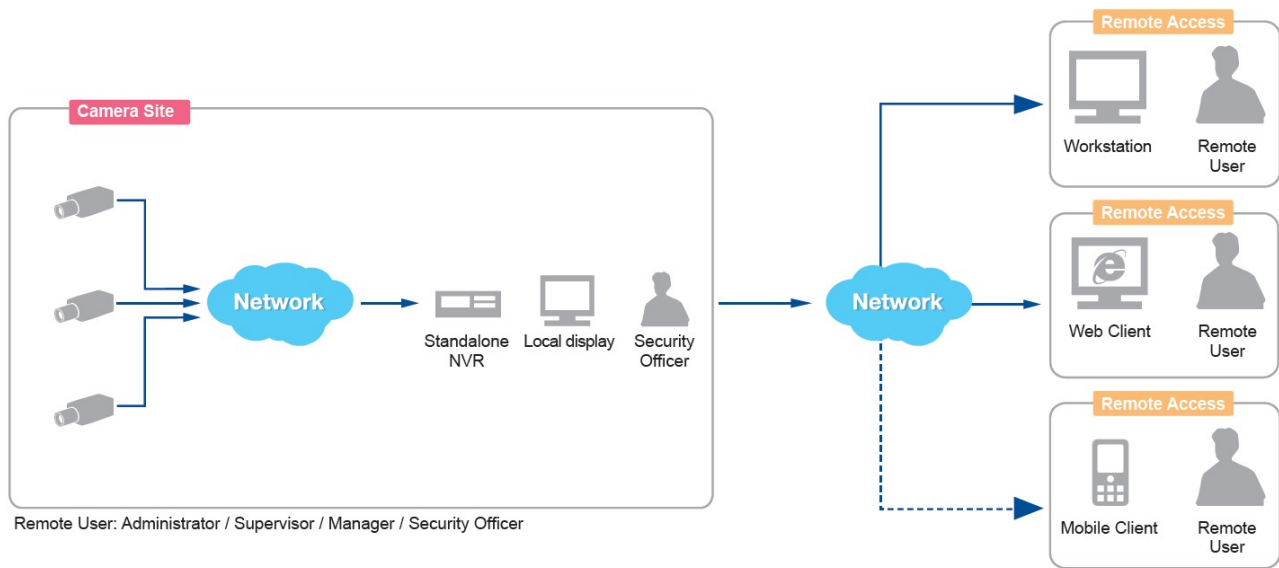
GNR-410

128-Channel Rackmount Standalone NVR



- Maximum Number of Video Devices: 128 (Free License: 64)
- Workstation, Web Client, Mobile Client
- Event trigger, response and notification
- Video export formats: RAW, AVI, EXE

▶ ****Solution Diagram****



▶ **Specifications**

Device

Product Type	Standalone NVR
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Maximum Resolution	Support all ACTi cameras in all resolutions
Maximum Number of Video Devices	128
Maximum Number of POS devices	64 (requires additional license)
Maximum Number of Access Control and Network I/O devices	64 (requires additional license)
Maximum Number of Clients	Local: 1, Remote: 1

Hardware

CPU	Intel Core i5-4590S
RAM	8GB

License

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

Live View

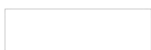
Display Layout Mode	Local: 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (IE client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64 Remote (Lite web client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (Workstation): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, 81, 100, 121 (11x11), 144 (12x12), 169 (13x13), 196 (14x14), 225 (15x15) ** 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
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, Car Park
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
Audio	
Audio Type	2-way, Mic-in, Line-in, Line-out
Network	
Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP Client, HTTP, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client), iSCSI
Ethernet Port	Total ports: 2 port(s) Non-PoE: 2 port(s), Ethernet (100/1000 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	160 Mbps Option 1: 128 channels : 1MP, 1.5Mbps bitrate Option 2: 64 channels : 2MP, 2.5Mbps bitrate Option 3: 32 channels : 4MP, 5Mbps bitrate
Search & Playback	
Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x/16x 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, EXE
Event	
Event Trigger	[NVR]: Disk full, Disk not found, Disk is available, Schedule service start and stop, Video Push start and stop, CPU limit exceeded. [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, Video Recovery, Network loss and recovery. [Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status, Car park 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
Redundancy Server	
Redundancy Service	Yes, 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
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
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, Supported device(s) iPhone, Android device
USB	2-Port USB 2.0, 4-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
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.)
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	mSATA SSD, 128GB
Storage Bay	SATA, Max. 8 Disk(s) (without storage disks)
HDD Size	3.5"
Maximum Recording Capacity	14TB x8
Supported Storage	Video Recording: SATA disk, iSCSI Video Exporting: iSCSI, USB

Interface

External Storage Interface	eSATA, iSCSI, USB
Local Access	USB joystick, keyboard & mouse
Local Display Interface	HDMI x 1, VGA x 1, Display Port x 1,

General

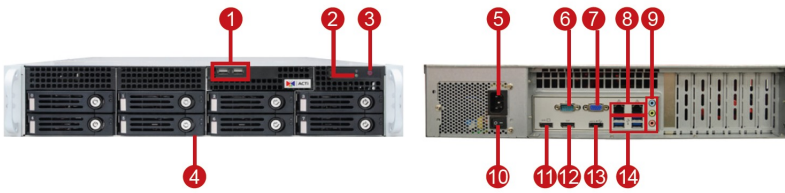
Power Source	AC 100-240V
Power Consumption	300 W (AC)
Weight	11400g (25.132lb)
Dimensions	Rack Space: 2U (W x H x D): 482.6mm x 88mm x 560mm (19" x 3.464" x 22.047")

Mount Type	Rackmount rails(19", 26")
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10% - 85% RH
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 http://www.acti.com/support/warranty

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

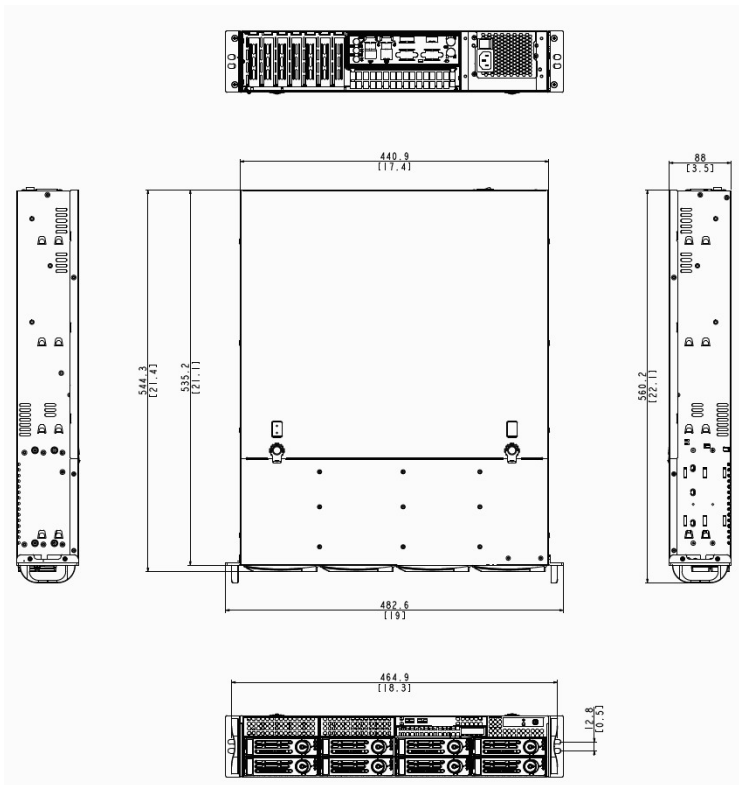


► Photo Indication



- 1 USB 2.0 Ports
- 2 Power LED
- 3 Power Button
- 4 Storage Disks
- 5 Power Connector
- 6 Serial Port
- 7 VGA Port
- 8 Ethernet Port
- 9 Audio Ports
- 10 Power Switch
- 11 HDMI Port
- 12 Display Port
- 13 eSATA Port
- 14 USB 3.0 Port


► Dimension Diagram



Unit: mm [inch]


▶ Related Products


Mounting Accessories - Standalone NVR Mount


PMAX-1200  19" Rackmount Rails for for GNR-320, GNR-410, INR-406, INR-407, INR-410, INR-460


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


PHDD-3C12  mSATA 128G System drive with Windows 10 and NVR software for GNR-410

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)