BNR-300

100-Channel Tower Standalone NVR

- 4-bay Tower Standalone NVR
- Maximum Number of Video Devices: 100 (Free License: 32)
- Multi-Browser Support for Lite Web Client
- System Monitoring and Notifications
- Workstation, Web Client, Mobile Client
- Event trigger, response and notification
- Intel Pentium Gold G7400, 16GB

▶ Specifications

Device

Product Type	Standalone NVR
Maximum Resolution	Support all ACTi cameras in all resolutions
Maximum Number of Video Devices	100
Maximum Number of Clients	Local: 1, Remote: 4

Hardware

CPU	Intel Pentium Gold G7400
RAM	16GB, DDR4, 3200MT/s

License

License required	Yes
Free License	32 (32 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	16ch (Max. 3Mbps at 1920x1080)
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	No

Map

e-Map	Yes
Google Map	No
Layout	Area maps with camera icons, small live view windows, hyperlinked
Setup	e-Map image upload, camera positioning, vision angle and pointed direction of camera, view positioning, source positioning
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.264
Built-in Analytics	Visual Tracking

Audio

Audio Type	2-way, Line-in, Line-out

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	1 x Ethernet (1000 Base-T), RJ-45 connector
Maximum Outgoing Throughput	384 Mbps
Security	Support Trusted Platform Module 2.0 (TPM 2.0)

Recording

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Event Speed-up Recording	Yes
Dual Stream Management	Yes

Maximum Recording Throughput	384 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	up to 225 layout grids**
Recording Search	Search video recordings by time, events, channels, bookmarks 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
Embedded Media Player	Yes, supports up to 64 channels view

Event

Video Push	No
Event Trigger	[NVR]: Disk full, Disk not found, Disk is available, S.M.A.R.T. Failure and Normal, Schedule service start and stop, Time Backward, 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 loss and recovery, Disk Write Failure and Available
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

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
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 Operating System	Windows 10 IoT
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	6-Port USB 2.0, 3-Port USB 3.0, 1-Port USB Type C
Language	Multi-Language

Integration

Unified Solution	Fully compatible with ACTi cameras and encoders
CMS Support	No

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 Business)
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	No

Storage

Supported Storage Technology	NAS, SAN
System Drive	M.2 SSD, 250GB
Storage Bay	SATA, Max. 4 Disk(s) (without storage disks)
HDD Size	3.5"
Maximum Recording Capacity	22TB x4
RAID Level	Software RAID 0, 1, 5, 10

Interface

Audio Interface	1/1, 3.5mm Phone Jack
Expansion Slots Available	2 x PCIe 4.0 (x1) 1 x PCIe 4.0 (x16)
Local Display Interface	HDMI x 1, VGA x 1, Display Port x 1

General

Power Source	AC 100-240V
Power Supply	400W
Weight	5210g (11.49lb)
Dimensions	(W x H x D): 190mm x 426mm x 491.5mm (7.48" x 16.77" x 19.35")
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
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.

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• For product and mounting accessory information, visit: www.acti.com/products and www.acti.com/mountingselector
• All specifications are subject to change without notice.

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▶ 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
PHDD-2I00		WD Ultrastar 20TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache
PHDD-2J00		WD Ultrastar 22TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache
PHDD-4K10		500G M.2 SSD Solid State Drive Win11 for BNR-300

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