

# ZNR-424

## 64-Channel 8-Bay RAID 2U Rackmount Standalone NVR

- 64 channels, 64 Free Licenses
- 8 Storage Bay(s)
- Hardware RAID (on Board) 1, 5
- Rack Space: 2U, Rackmount Standalone NVR
- Embedded Linux
- ARM-based embedded SoC
- Audio, Digital Input/Output, HDMI x 1, VGA x 1
- Web Client
- Multi-Browser Support

## Specifications

### Product Profile

Product Type	Standalone NVR
Maximum Resolution	16MP
Maximum Number of Video Devices	64
Maximum Number of Clients	Local: 1, Remote: 128
Supported Screen Resolution	HDMI: 3840x2160 (30Hz), 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz) VGA: 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz)

### Hardware

System Architecture	Embedded SoC-based (ARM platform)
CPU	ARM-based embedded SoC

### License

License required	No
Free License	64

### Live View

Display Layout Mode	1, 4, 6, 8, 9, 16, 25, 36, 64
Fisheye Dewarping	Yes (Live View, Playback)

Local Live View performance	[H.265] 2ch (up to 30 fps at 12MP) 4ch (up to 30 fps at 4K 3840 x 2160) 6ch (up to 30 fps at 5MP) 8ch (up to 30 fps at 4MP) 10ch (up to 30 fps at 3MP) 16ch (up to 30 fps at 2MP 1920 x 1080) 32ch (up to 25 fps at 960p) 36ch (up to 30 fps at 720P) 64ch (at D1) [H.264] 2ch (up to 30 fps at 12MP) 2ch (up to 30 fps at 4K 3840 x 2160) 4ch (up to 30 fps at 5MP) 6ch (up to 30 fps at 4MP) 8ch (up to 30 fps at 3MP) 14ch (up to 30 fps at 2MP 1920 x 1080) 28ch (up to 25 fps at 960p) 30ch (up to 30 fps at 720P) 64ch (at D1)
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**PTZ**

PTZ Control	PTZ Control, Speed Control
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**Video**

Compression	H.265 Adaptive Stream, H.264 Adaptive Stream
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**Audio**

Audio Type	2-way, Line-in, Line-out
Audio Compression	G.711 A-law, G.711 u-law

**Network**

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTSP, SMTP, UPnP, TLS 1.2, TLS 1.3, SNMP, IEEE 802.1X
Ethernet Port	2 x Ethernet (10/100/1000 Base-T), RJ-45 connector
Maximum Outgoing Throughput	160 Mbps
Security	TLS v1.2, TLS v1.3 encrypted communication

**Recording**

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Maximum Recording Throughput	320 Mbps

**Search & Playback**

Playback Control	Continuous forward and backward playback with speeds 0.125x/0.25x/0.5x/1x/2x/4x/8x/16x, play, pause, stop
Synchronized Playback	16 channels
Video Export	MP4
Snapshot Export	JPEG

**Event**

Event Trigger	[NVR]: Low disk space, Disk full, Disk not found, Failed to write storage, IP address conflict, Network loss. [Video Device]: Video motion detection, Tampering detection, External device through digital input, Sound detection
Event Response	E-mail notification with snapshots, Upload snapshot to FTP server

**System**

Permission control	128 Remote users, Customizable permissions for user groups
Server Operating System	Embedded Linux

Client PC Operating System	Windows 7, Windows 8, Windows 10
USB	2-Port USB 2.0, 1-Port USB 3.0
Language	English, Traditional Chinese, Japanese, Spanish

**Integration**

Edge Recording	Automatically restore the lost videos from the memory card of Z-series camera to ZNR server via proprietary protocol integrations after network connection recovery.
ONVIF Compliant	Yes, Profile S, Profile G, Profile T
Web Browser	IE 10 or newer, Google Chrome, Microsoft Edge, Firefox

**Storage**

Storage Bay	SATA, Max. 8 Disk(s) (without storage disks)
HDD Size	3.5"
Maximum Recording Capacity	24TB x8
RAID Level	Hardware RAID (on Board) 1, 5

**Interface**

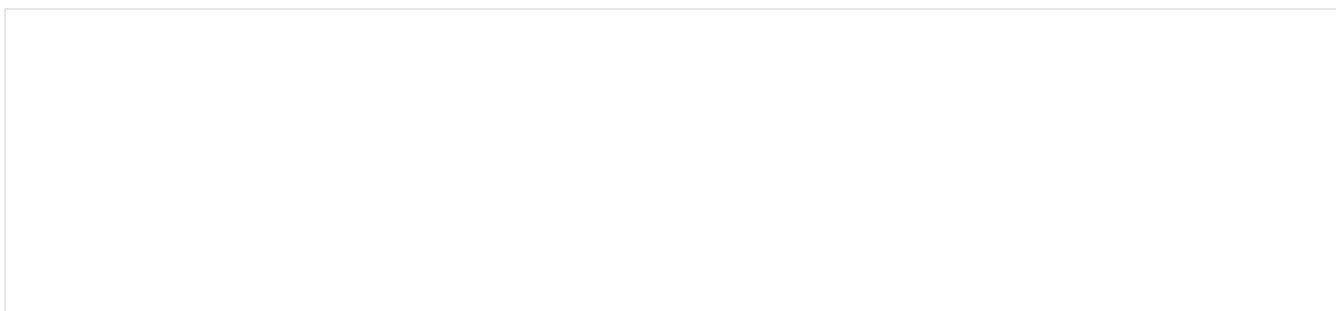
Serial Port	1 x RS-485
Audio Interface	RCA Jack
Digital Input/Output	16/4
Local Access	USB Mouse
Local Display Interface	HDMI x 1, VGA x 1

**General**

Power Source	AC 100-240V
Power Consumption	32 W (AC, without HDD)
Weight	4000g (8.80lb)
Dimensions	(W x H x D): 442mm x 89mm x 426mm (17.4" x 3.5" x 16.8") Rack Space: 2U
Bundled Accessories	Rack Bracket
Fan	Yes
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Operating Humidity	10% - 90% RH, non-condensing
Remote Access	Web Client
Approvals	CE Class B, FCC Class B, BSMI, UL Listed
Color	Black
Warranty	2 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>

\* The supported analytics functions depend on the compatible Z-series cameras.

**Dimension Diagram**



## 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-2303	WD Purple 2TB 3.5" SATA Hard Disk Drive, 5400 RPM 64 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)
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-2504	WD Purple 4TB 3.5" SATA Hard Disk Drive, 5400 RPM 128 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)
PHDD-2702	WD Ultrastar 6TB 3.5" Hard Disk Drive, 7200 RPM 256MB Cache
PHDD-2703	WD Purple 6TB 3.5" SATA Hard Disk Drive, 5400 RPM 256 MB Cache (for ZNR-126, ZNR-127, ZNR-129, ZNR-221P, ZNR-222P, ZNR-224, ZNR-423, ZNR-424, ZNR-425, ZNR-429, ZNR-431, KNR-120, KNR-121, KNR-220P, KNR-420, KNR-421)
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-2M00	WD Ultrastar 24TB 3.5" Hard Disk Drive, 7200 RPM 512MB Cache

### Network & Storage Peripherals - Extended Storage Device

PSTR-0405

QNAP TS-1232PXU-RP-4G 2U 12-Bay NAS RAID Storage Device (for All GNR, ENR, INR and ZNR Series)

### Controllers - Joystick

PJSK-0102

Joystick for PTZ Control (for ZNR Series, YVR Series, KNR Series)