

ZNR-221P

16-Channel 2-Bay 1U Rackmount Standalone NVR with 16-port PoE Connectors



- 16 channels, 16 Free Licenses
- 2 Storage Bay(s)
- Rack Space: 1U, Rackmount Standalone NVR
- Embedded Linux
- 16-Port PoE
- 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	8MP
Maximum Number of Video Devices	16
Maximum Number of Clients	Local: 1, Remote: 2
Supported Screen Resolution	HDMI: 3840x2160 (30Hz), 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz) VGA: 1920x1080 (60Hz/50Hz), 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	16

Live View

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

Local Live View performance	2ch (up to 30 fps at 4K 3840 x 2160) 4ch (up to 30 fps at 4MP) 5ch (up to 30 fps at 3MP) 8ch (up to 30 fps at 2MP 1920 x 1080) 16ch (up to 30 fps at 720p)
Digital Zoom	Yes
Event Status	Display event status upon alarm or upon connection loss or recovery between server and client

PTZ

PTZ Control	PTZ Control, Speed Control
-------------	----------------------------

Video

Compression	H.265, H.264
Text Overlay	Yes

Audio

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

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
Ethernet Port	Total ports: 17 port(s) Non-PoE: 1 port(s), Ethernet (10/100/1000 Base-T), RJ-45 connector PoE: 16 port(s), Ethernet (10/100 Base-T), RJ-45 connector
Maximum Outgoing Throughput	64 Mbps

Recording

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Maximum Recording Throughput	160 Mbps

Search & Playback

Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x/16x, pause, stop, frame-by-frame
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, Sound detection
Event Response	Play alert sound, E-mail notification with snapshots

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	1-Port USB 2.0, 1-Port USB 3.0
Language	English, Traditional Chinese, Japanese, Spanish

Integration

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. 2 Disk(s) (Options to have empty bays, one 4TB or one 8TB storage disk included)
HDD Size	3.5"
Maximum Recording Capacity	24TB x2
RAID Level	No

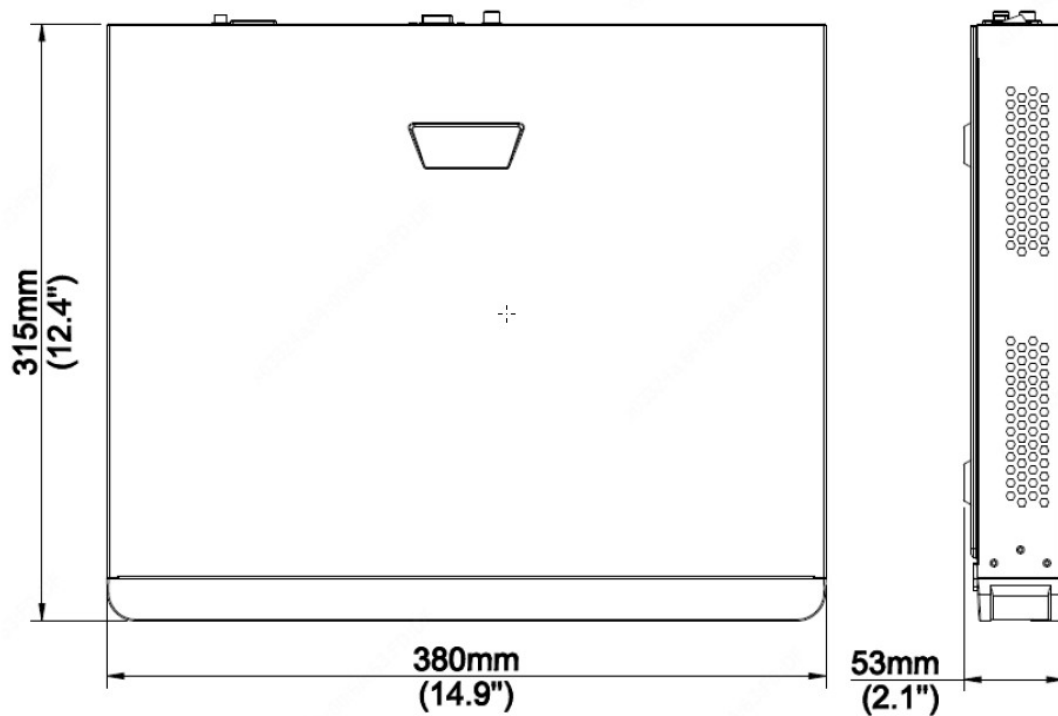
Interface

Audio Interface	1/1, RCA Jack
Digital Input/Output	4/1 (Terminal block)
Local Access	USB Mouse
Local Display Interface	HDMI x 1, VGA x 1

General

PoE Output	Maximum 30 Watts per port
PoE Power Budget	Maximum 240 W
Power Source	AC 100-240V
Power Consumption	10 W (AC, without HDD)
Weight	2600g (5.29lb)
Dimensions	(W x H x D): 380mm x 53mm x 315mm (15" x 2.1" x 12.4") Rack Space: 1U
Bundled Accessories	Power cord, USB Mouse
Fan	Yes
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	10% - 90% RH, non-condensing
Remote Access	Web Client
Approvals	CE Class B, FCC Class B, BSMI, UL Listed
Color	Black
Material	Iron
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

► Dimension Diagram



Unit: mm [inch]





► Related Products













Mounting Accessories - Standalone NVR Mount

PMAX-1204  Rack Bracket for ZNR-220P, ZNR-221P


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-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)
-----------	---	---

Other Accessories - Accessory Part

R704-X0000		SATA Power Cable (for ZNR series)
------------	---	-----------------------------------