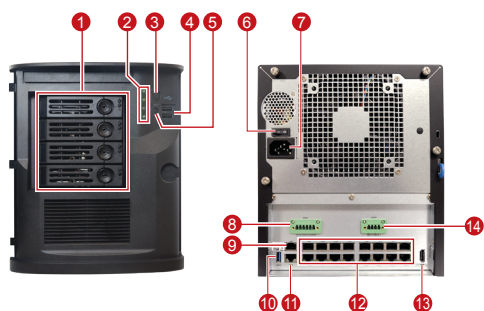# ENR-321P

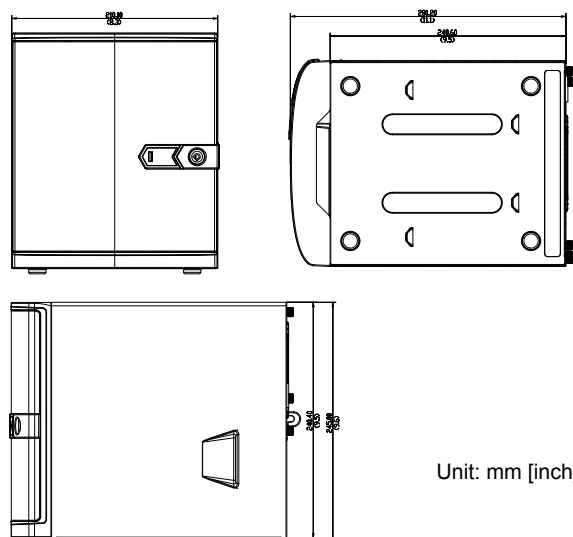**32-Channel 4-Bay Tower Standalone NVR with 16-Port PoE Connectors**

- 4-bay Desktop
- Manage up to 32 cameras or video devices
- Recording up to 32 channels
- Live view up to 32 channels
- Support dewarping function with ACTi fisheye view technology
- Synchronized playback up to 16 channels (local) and 32 channels (remote)
- Export video with RAW and AVI formats
- Event trigger, response and notification
- Mobile Client, Web Client
- 32-channel free license included
- 16 PoE RJ-45 Network Ports

PHOTO INDICATION

❶ Hard Disk Bay	❽ Digital Input / Output	
❷ LED Indicators	❾ LAN Port	
❸ Power Button	❿ USB 3.0 Port	
❹ USB 2.0 Ports (2)	⓫ WAN Port	
❺ Reset Button	⓬ PoE Ports (16)	
❻ Main Switch	⓭ HDMI Port	
❼ Power Input Connector	⓮ Audio Input / Output	

DIMENSION DIAGRAM

Unit: mm [inch]

SOLUTION ARCHITECTURE

Standalone NVR

Camera Site

Network → Standalone NVR / Local display / Security Officer → Network → Remote Access / Web Client / Remote User
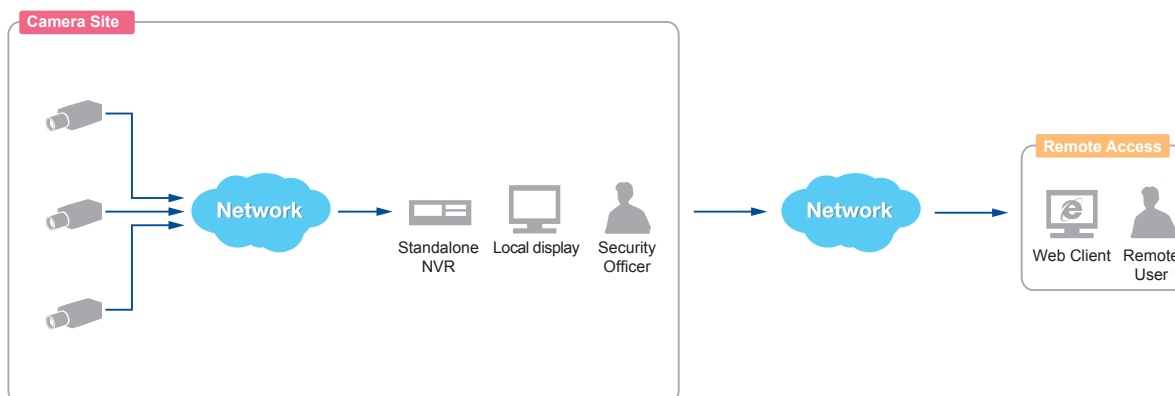
Remote User: Administrator / Supervisor / Manager / Security Officer

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ENR-321P

▐ PRODUCT SPECIFICATION

ENR-321P	
• General	
Full Name	ACTi Standalone Network Video Recorder ENR-321P
Maximum Number of Clients	1 local, 2 remote clients (IE, CMS2, VMS workstation) and 1 mobile client (iOS or Android)
Maximum Number of Video Device	32
Maximum Number of Access Control, Parking Management System, and Network I/O Device	32
Maximum Number of POS Device	32
Video Compression	H.265, H.264, MJPEG
Audio Compression	G.711 (U-Law, A-Law), PCM
Maximum Camera Resolution	12 MP
Maximum Local Display Resolution	2 MP (1920 x 1080)
Fisheye Mode*	Original / Dewarping / Panorama / Double Panorama / Panorama Focus / Quad
• Live View	
Display Layout Mode	Dynamic Layouts (Max 32 channels), Channels could be utilized by end user with e-Map* / Extended devices
Integration View	Metadata overlap on video (Position / Dwell time / Font and Color / Motion event alarm), e-Map* / event and thumbnail overlay display
Synchronize Playback	Quick switch between playback and live view of each channel, Playback recording in one channel while others are still on live streaming
Device Manager	Camera setup / search / add (ACTi, ONVIF), Associate POS, AC, Network DIO, PMS device with camera, Firmware management*, Local storage management
Layout Tour (Auto Patrol)	Automatic switch between different display layouts
Digital Zoom	Zoom in / out digitally by mouse scroll wheel or by zoom control buttons
Event status	Display status for network / record / motion / DI / video loss upon every video region
Two-Way Audio	Yes
• PTZ	
Control	Continuouse Pan, Tilt and Zoom with speed control; Focus mode setting (Auto/ Manual)
Zoom	Zoom in/out optically or digitally by control buttons
Preset Points and Tours	Add, Go to, Delete, Replace
Number of Preset Points	Unlimited (Depends on the number of camera's preset points)
Operation	Joystick, Virtual Joystick, Mouse
Support Protocol	ACTi or ONVIF
• Recording	
Recording Source	**Video:** Dual streams of camera; **Audio:** Audio in from camera or local audio device
Scheduled Recording	Record video with user defined schedule (regular and specific schedule), Auto recycling by video ageing and user settings (reserved days: 1~999)
Event Recording	Record video when event is triggered
Pre-Event Recording	Record video before event occurs: 10 seconds
Post-Event Recording	User-defined time period to record after event occurs, maximum buffer is 3600 seconds
Manual Recording	Instant recording upon mouse click
Maximum Recording Frame Rate	Max 960 fps total
Maximum Recording Throughput	300 Mbps
• Storage	
Interface	Serial ATA
Maximum HDD Capacity	10 TB x 4
HDD Bay	4, 3.5" HDD
External Storage	Samba, NFS, iSCSI, USB flash drive
• Search & Playback	
Video Search	By event, recording thumbnail and bookmark
Playback Control	Play forward and backward with speeds: x2, x4, x8, x16, x1/2, x1/4, x1/8, Pause
Synchronized Playback	**Local:** Up to 16 channels / **Remote:** Up to 32 channels
Maximum Playback Frame Rate	**Local:** 16 channels at 30 fps / **Remote:** 32 channels at 60 fps
Manual Snapshot	Create snapshot from playback for export; Channel or Full-screen snapshot
Video Clipping Length	Crop a short video clip from long recording file and save it as an independent file; Video clip length: Local 1 ~ 30 mins / Remote 1 ~ 1440 mins
Video Export	RAW, AVI; One or All channel view, Text overlap on video, Metadata on video (POS, AC, Network DIO, PMS)
• Event Management	
Event Trigger	**Sysetm event:** storage access error, No recording device found, system boot up*, S.M.A.R.T test failed. **Camera event:** motion/ sound detection, video loss/ recorvery, event from ACTi Analytics camera, External device through digital input
Event Response	Play Alert Beep, Activate External Device through Digital Output, E-mail Notification with Snapshots and Messages, Start and Stop Recording, Push Notification, Enlarge video loss*, Go to PTZ preset point
Event Handling scheduler	Regular (weekly calender in 24 hours; 20 minutes per unit) and specific scheduler
• System	
Firmware Upgrade	Auto check from website*, USB or Network storage, Manual and schedule upgrade*
Configuration Backup and Restore	System / camera* configuration backup and restore via USB and network storage, Password protection
Permission Control	Multi-group / users, live view / playback / setup / remote level permission
Operating System	Embedded Linux
System Status Monitor	Real time status and message on screen
Language	English, Multi-language support

* To be available through future firmware upgrade

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ENR-321P

• Remote Access

PC Web Browser	Microsoft Internet Explorer (IE 10 / 11) with live view, PTZ, playback, event management, setup
PC Client Program	User interface program* (ACTi VMS workstation) with live view, PTZ*, playback, e-Map*, event management, setup
Mobile Client Program	Mobile device application (ACTi Mobile client) supports live view, PTZ control, event or time based search and playback; Supported devices: iPhone, iPad, iPod Touch and Andriod device

• Hardware

CPU	Hi3536
RAM	4 GB; 8 x DDR3 1800MHz 512MB
Dimensions (W x H x D)	210.1 mm x 245 mm x 281.2 mm (8.3" x 9.6" x 11.1")
Weight	7143 g (15.75 lb)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10% ~ 85% RH
Power Source / Consumption	AC 100~240 V / Max 280 W
Approvals	CE (EN 55032 Class B, EN 55024), FCC (Part15 Subpart B Class B); Adapter: CE, FCC, UL, PSE, EFFICIANCY LEVEL VI
USB	1 x USB 3.0, 2 x USB 2.0
Ethernet Port	1 x WAN port, 1 x LAN port with RJ-45 connector
Power Over Ethernet (PoE) Port	16
Power Budget	180 W (Max 30 W per port)
Audio	1 x Audio-in, 1 x Audio-out; Terminal Block
Digital Input/Output	2 x Digital input, 2 x Digital output; Terminal Block
Display Interface	1 x HDMI

• Integration

Unified Solution		Fully compatible with ACTi Cameras, Video Encoders, Central Management System*, TV Wall Server*, Intelligent video surveillance software
Open Platform Solution		Support ONVIF compliant devices
Device Integration	POS (Point of Sales)	NCR-Aloha, pcAmerica-Cash Register Express, NEC/ NEC, Standard/ Standard, POSNET/ KASY and DRUKARKI, Import the RAW data from COM port
	PMS (Parking Manageremt Station)	Sunpark
	Network DIO	Advantech Adam 60xx I/O Modbus TCP Module
	AC (Access Control)	R11C-30, R12CP-30, R11-20, Q950, Q951

To be available through future firmware upgrade

■ ACCESSORY OPTIONS

PJSK-0100		Apem 100-500-BLK-RF Joystick
PSTR-0400		PROWARE EN-2126JS6T-SQX 2U 12-Bay NAS RAID Storage Device
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