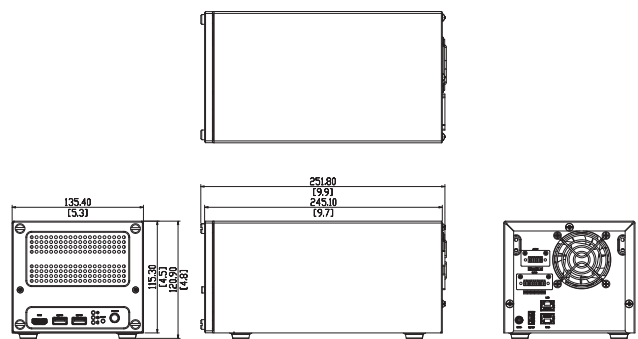# ENR-221

9-Channel 2-Bay Desktop Standalone NVR

- 2-bay Desktop
- Manage up to 9 cameras or video devices
- Recording up to 9 channels
- Live view up to 9 channels
- Support dewarping function with ACTi fisheye view technology
- Synchronized playback up to 9 channels
- Export video with RAW and AVI formats
- Event trigger, response and notification
- Mobile Client, Web Client
- 9-channel free license included

PRODUCT INDICATION
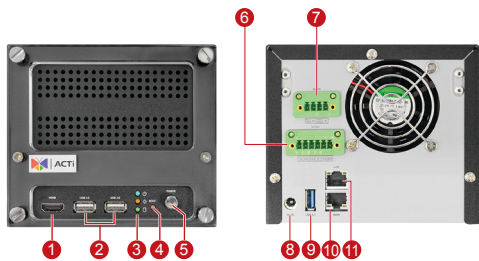
1	HDMI Port	7	Audio Input / Output
2	USB 2.0 Port	8	DC 48V Power Input
3	LED Indicators	9	USB 3.0 Port
4	Reset Button	10	WAN Port
5	Power Button	11	LAN Port
6	Digital Input / Output		

DIMENSION DIAGRAM

251.80
[9.9]
245.10
[9.7]

135.40
[5.3]

115.30
[4.5]
123.30
[4.8]

Unit: mm [inch]

SOLUTION ARCHITECTURE

Standalone NVR

Camera Site

Network

Standalone NVR

Local display

Security Officer

Network

Remote Access

Web Client
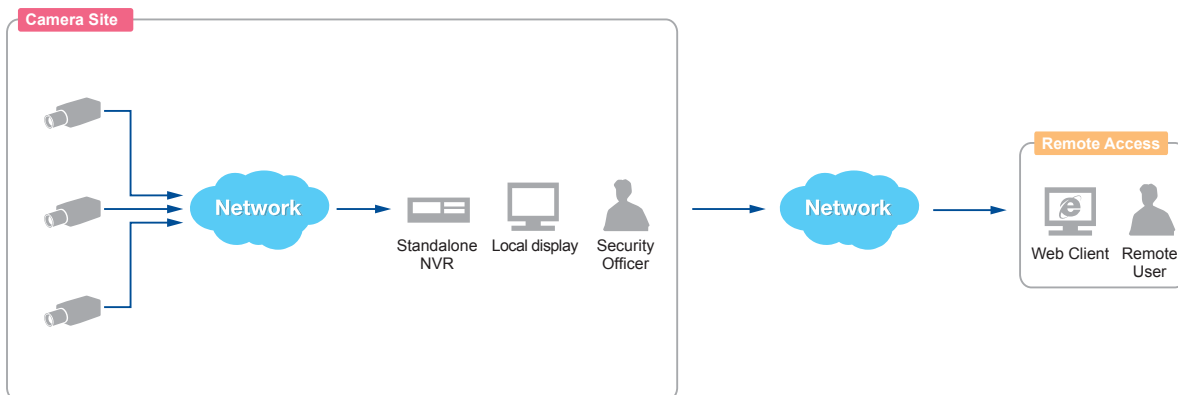
Remote User

Remote User: Administrator / Supervisor / Manager / Security Officer

ACTi
Connecting Vision

171101

ENR-221

PRODUCT SPECIFICATION

ENR-221	
• General	
Full Name	ACTi Standalone Network Video Recorder ENR-221
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	9
Maximum Number of Access Control, Parking Management System and Network I/O Device	9
Maximum Number of POS Device	9
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	1920 x 1080
Fisheye Mode	Original / Dewarping / Panorama / Double Panorama / Panorama Focus / Quad
Built-in Analytics**	Line Crossing, Enter Area, Missing Object, Unattended Object, Tamper, Support up to 2 channels (Additional Licenses required)
• Live View	
Display Layout Mode	Dynamic Layouts, Channels could be utilized by end user with e-Map/Google-Map/Extended devices
Integration View	Metadata overlap on video (Position/ Dwell time/ Font and Color/ Motion event alarm), e-Map/ Google-map with device/ 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; Associate POS, AC, Network DIO, PMS device with camera; Firmware management; Local storage management; Virtual camera of imported video
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, and the maximum buffer is 3600 seconds
Manual Recording	Instant recording upon mouse click
Maximum Recording Frame Rate	270 fps total
Maximum Recording Throughput	300 Mbps
• Storage	
Interface	Serial ATA
Maximum HDD Capacity	10 TB x 2
HDD Bay	2 Bay, 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	Up to 9 channels
Maximum Playback Frame Rate	9 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: Local1-30mins; Remote 10-1440mins
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	**System event**: storage access error/ missing, user account/ device shedule expired, system boot up, Event action fail, **Camera event**: motion/ sound detection, video loss/ recorvery, event from ACTi Analytics camera **Server event**: ACTi IVS/ALPR/RAS server event
Event Response	Play alert beep; Activate external device through digital output; E-mail notification with snapshots and messages; Pop-up instant live view channel; Sart and stop recording; 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, liveview/playback/setup/remote level permission
Operating System	Embedded Linux
System Status Monitor	Real time status and message on screen
Language	English, Multi-language support (export/ update/ restore)

** Functionality will be available in future firmware update

www.acti.com

ACTi
Connecting Vision

ENR-221

• 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)	135 mm x 120 mm x 252 mm (5.3" x 4.5" x 9.9")
Weight	1.58 kg (3.5 lb)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10% ~ 85% RH
Power Source / Consumption	DC 48V / 1.3Amp
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	2, RJ-45 connector
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, encoders, mobile client (iOS, Android) PC client program
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)	HID VertX 1000

ACCESSORY OPTIONS

PPBX-0009		Power Adapter AC 100~240V (56V Output)
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