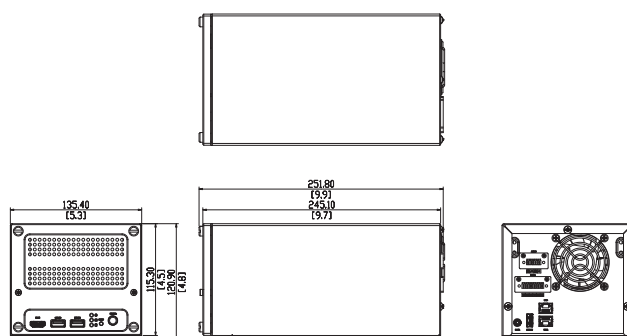# ENR-221

## 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
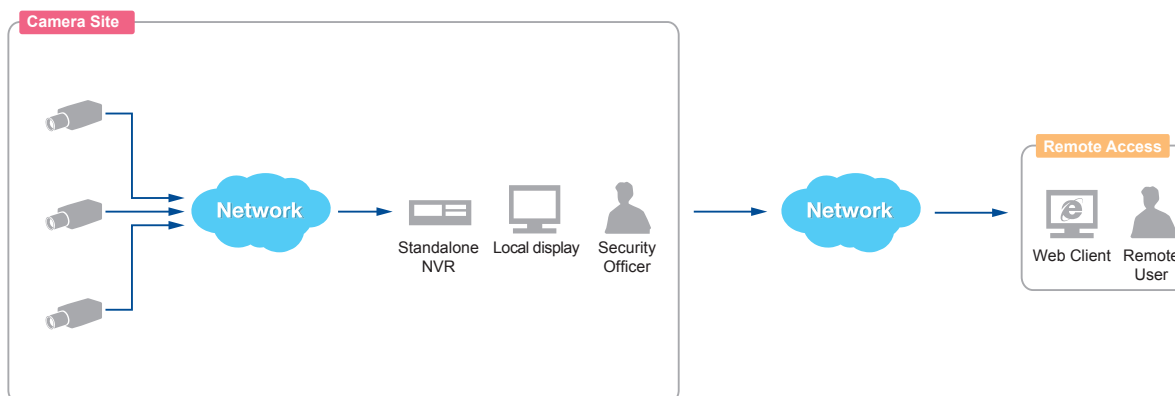- Mobile Client, Web Client
- 9-channel free license included

## DIMENSION DIAGRAM

135.40
[5.3]

251.80
[9.9]
245.10
[9.7]

115.30
[4.5]
120.90
[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

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170623

# ENR-221

## PRODUCT SPECIFICATION

| ENR-221 | |
|---|---|
| **• General** | |
| Full Name | ACTi Standalone Network Video Recorder ENR-221 |
| Maximum Number of Clients | 1 local, 2 remote client (IE, CMS2, VMS workstation) and 1 mobile client (iOS or Android) |
| Maximum Number of Video Device | 9 |
| Maximum Number of Device (AC/ PMS/ Network DIO) | 9 |
| Maximum Number of POS Device | 1 |
| Video Compression | H.265, H.264, MJPEG-4, MJPEG |
| Audio Compression | G.711 (U-Law, A-Law), G.726, PCM |
| 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** | |
| Maximum Camera Resolution | Local: up to 8MP; Remote: up to12MP |
| 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 camea 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 |
| Multi-Stream Management | Live view of stream 1, stream 2 or stream 3 |
| 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 preset points |
| Number of Preset Points | Unlimited (Depends on the number of camera's preset points) |
| Operation | Joystick, Virtual Joystick, Mouse |
| Support Protocal | ACTi or ONVIF |
| **• Recording** | |
| Recording Source | **Video**: Dual streams of camera; **Audio**: Aduio in from camera or local audio device |
| Maximum Camera Resolution | 12MP |
| Scheduled Recording | Record video with user defined schedule (regular and specific schedule); Auto recycling by video ageing and user settings (reserved days: 1~999) |
| Pre-Event Recording | Record video before event occurs, and the maximum buffer is 10 seconds |
| Post-Event Recording | User-defined time period to record after event occurs, and the maximum buffer is 3600 seconds |
| Event Speed-up Recording | Record I frame only in normal status, and record full frames when the alarm event is triggered |
| Manual Recording | Instant recording upon mouse click |
| Maximum Recording Frame Rate | Total 270 fps |
| Maximum Recording Throughput | 300 Mbps |
| **• Storage** | |
| Interface | Serial ATA |
| Maximum HDD Capacity | 2 x 10 TB |
| HDD Bay | 2 Bay, 3,5"HDD |
| External Storage | Samba, NFS, iSCSI, USB flash drive |
| **• Search & Playback** | |
| Video Search | Search video recordings by time, channel or 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 Cropping | Crop a short video clip from long recording file and save it as an independent file; Video clip length: Local1-30mins; Remote 10-60mins |
| 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) |

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# ENR-221

| | ENR-221 |
|---|---|
| **• Remote Access** | |
| PC Web Browser | Microsoft Internet Explorer (IE 10/ 11)<br>with live view, PTZ, playback, event management, setup |
| PC Client Program | User interface program (ACTi VMS workstation)<br>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;<br>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) | 270.6mm*71.3mm*239mm (10.65" x 2.81" x 9.41") |
| Weight | TBC |
| 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);<br>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; WLAN |
| 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 (Force pixel to 1080p) |
| **• Integration** | |
| Unified Solution | Fully compatible with ACTi cameras, encoders, central management system, TV wall and 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) | HID VertX 1000 |