

ZNR-429

Deep Learning AI 64-Channel 8-Bay RAID 2U Rackmount Standalone NVR



- 8-bay 2U Rackmount Standalone NVR
- Maximum Number of Video Devices: 64
- Hardware RAID support
- Event trigger, response and notification
- Forensic Search

► Specifications

Product Profile

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| Product Type | Standalone NVR |
| Maximum Resolution | 32MP |
| Maximum Number of Video Devices | 64 |
| Maximum Number of Clients | Local: 1, Remote: 128 |
| Supported Screen Resolution | HDMI: 3840x2160 (60Hz/30Hz), 1920x1080 (60Hz/50Hz), 1600x1200 (60Hz), 1280x1024 (60Hz), 1280x720 (60Hz), 1024x768 (60Hz) |

Hardware

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

License

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| License required | No |
| Free License | 64 |

Live View

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

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| Local Live View performance | [Smart IVA Off] 64ch (up to 30 fps at 720P) 32ch (up to 30 fps at 1080p) 20ch (up to 30 fps at 3MP) 16ch (up to 30 fps at 4MP) 12ch (up to 30 fps at 5MP) 10ch (up to 30 fps at 2MP 1920 x 1080) 8ch (up to 30 fps at 4K) 5ch (up to 30 fps at 12MP) 4ch (up to 30 fps at 16MP) 2ch (up to 30 fps at 32MP) |
| Digital Zoom | Yes |
| Event Status | Display event status upon alarm or upon connection loss or recovery between server and client |
| Instant Playback | Instant Playback in live view window |

PTZ

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|-------------|----------------------------|
| PTZ Control | PTZ Control, Speed Control |
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Video

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| Compression | H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.264 Adaptive Stream (equivalent to Zip or Smart Stream or H.264+) |
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Analytics

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| NVR Built-in Analytics | Smart Intrusion Protection (detect people, vehicles entering/ exiting area or crossing the line), Smart Motion Detection (detect when the people, vehicles or other objects move in the predefined area), Face Recognition, Face Detection, Object Metadata |
| NVR Analytics Maximum Channels | Smart Intrusion Protection: 2 channels Smart Motion Detection: 4 channels |
| NVR Object Metadata | Gender, Age, Glasses, Mask, Vehicle type, Vehicle color, Vehicle brand, Vehicle direction, License plate type, License plate color, License plate number |
| Deep Learning AI | 2.0 |
| Object Recognition Database | Face Picture Capacity: 40,000 Vehicle Picture Capacity: 25,000 |
| Maximum Snapshot Capacity | Captured Face Snapshots: 3,000,000 Captured Vehicle Snapshots: 2,000,000 Captured Object Snapshots via Smart Intrusion Protection: 2,000,000 Object Metadata Snapshots: 2,000,000 |
| Analytics from Camera | Receive analytics based events from the cameras and respond to the events: Face Detection; Smart Motion Detection (People Detection, Vehicle Detection); Smart Intrusion Protection (Intrusion Detection, Line Crossing Detection, Enter Area Detection, Exit Area Detection); People Counting (People Line Counting, People Area Counting, People Flow Counting, Crowd Detection); Object Metadata; Object Recognition; Temperature Detection (Fire Detection, Smoking Detection, Smoke Detection, Temperature Measurement); Traffic Monitoring |

Audio

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

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| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP Client, HTTP, HTTPS, DNS, DDNS, NTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, SNMP |
| Ethernet Port | 2 x Ethernet (10/100/1000 Base-T), RJ-45 connector |
| Maximum Outgoing Throughput | 384 Mbps |

Recording

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| Scheduled Recording | Yes |
| Event Recording | Yes |
| Manual Recording | Yes |

Maximum Recording Throughput | 384 Mbps

Search & Playback

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| 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 (Local), 32 channels (Remote) |
| Event Search | Search within previously recorded AI events |
| Smart Search | Set ROI and look for the people and vehicles appearing in the ROI in the past recordings (requires cameras with Smart Motion Detection feature) |
| Forensic Search | Select target object (people, vehicle) and search for the similar object through all the channels, with the eMap popping up to display event locations. |
| Metadata Search | Select attribute filters (color, gender, age, etc) and find thumbnails matching the criteria |
| Object Visual Tracking | View thumbnails generated by Forensic Search and playback by time sequence |

Event

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|----------------|---|
| Event Trigger | [NVR]: IP address conflict, Disk full, Disk not found, Disk abnormal, Low disk space, Illegal access, Recording or Snapshot abnormal, Crowd detection with three different concurrent thresholds with priority, Smart Intrusion Protection, Smart Motion Detection, Face Recognition [Video Device]: Video motion detection, Tampering detection, Defocus detection, External device through digital input, Sound detection, Video loss, Smart Intrusion Protection, Smart Motion Detection, Face Recognition, Face Detection, People Detection, Vehicle Detection, People Line Crossing Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection, Temperature Detection, Fire Detection, Smoke Detection, Missing Object Detection, Unattended Object Detection, PTZ Auto Tracking, People Counting, Crowd Detection, Automatic License Plate Recognition, Traffic Monitoring |
| Event Response | E-mail notification with snapshots, Play alert sound, Pop-up window, Activate external device through digital output |

System

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| Server Operating System | Linux |
| USB | 2-Port USB 2.0, 2-Port USB 3.0 |

Integration

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| ONVIF Compliant | Yes, Profile S, Profile G, Profile T |
| Web Browser | IE 10 or newer, Google Chrome, Microsoft Edge, Firefox |

Storage

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| Storage Bay | SATA, Max. 8 Disk(s) (without storage disks) |
| Maximum Recording Capacity | 24TB x8 |
| RAID Level | Hardware RAID (on Board) 0, 1, 5, 6, 10 |

Interface

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| Serial Port | 1 x RS-485, 1 x RS-232 |
| Audio Interface | 1/2, RCA Jack |
| Digital Input/Output | 16/10 |

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| External Storage Interface | eSATA |
| Local Display Interface | HDMI x 2, VGA x 2 |

General

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| Power Source | AC 100-240V |
| Power Consumption | 20 W (AC, without HDD) |
| Dimensions | (W x H x D): 442mm x 86mm x 432mm (17.4" x 3.4" x 17.0") Rack Space: 2U |
| Bundled Accessories | Rack Bracket |
| Fan | Yes, 1 fan(s) |
| Operating Temperature | -10°C ~ 60°C (14°F ~ 140°F) |
| Operating Humidity | 10% - 90% RH, non-condensing |
| Approvals | CE Class B, FCC Class B, BSMI |
| Color | Black |
| Warranty | 2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

▶ Related Products

Network & Storage Peripherals - Hard Disk

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|-----------|---|
| PHDD-2M00 |  |
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