

# INR-415

## 256-Channel RAID Rackmount Standalone NVR



- 12-bay 2U Rackmount Standalone NVR
- Maximum Number of Video Devices: 256 (Free License: 64)
- Hardware RAID 0, 1, 5, 6, 10, 50, 60
- Multi-Browser Support for Lite Web Client (v.3.0.16)
- System Monitoring and Notifications (v.3.0.16)
- Location-based management with e-Map & Google Map
- Workstation, Web Client, Mobile Client
- Event Trigger, Response, Notification and Snapshot to Line Messenger (v.3.0.16)
- Intel Core i7-7700, 16GB
- Non-ACTi camera support via licensed Camera Device Pack

### ► Specifications

#### Device

|  |   |
|--|---|
| Product Type   | Standalone NVR                              |
| Maximum Resolution                                       | Support all ACTi cameras in all resolutions |
| Maximum Number of Video Devices                          | 256   |
| Maximum Number of POS devices                            | 256 (requires additional license)           |
| Maximum Number of Access Control and Network I/O devices | 256 (requires additional license)           |
| Maximum Number of Clients                                | Local: 1, Remote: 5                         |

#### Hardware

|     |                    |
|-----|--------------------|
| CPU | Intel Core i7-7700 |
| RAM | 16GB               |

**License**

|                  |  |
|------------------|--|
| License required | Yes  |
| Free License     | 64 (64 channels for ACTi and 1 channel for third-party video device) |

**Live View**

|                                |   |
|--------------------------------|---|
| Display Layout Mode            | Local: 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (IE client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64 Remote (Lite web client): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote (Workstation): 1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, 81, 100, 121, 144 |
| Fisheye Dewarping              | Yes   |
| Local Live View performance    | Please check "Standalone NVR Performance Validator" ( <a href="http://www.acti.com/SANVRPerformance">http://www.acti.com/SANVRPerformance</a> )   |
| Digital Zoom                   | Yes   |
| Event Status                   | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full  |
| Instant Playback               | Instant Playback in live view window  |
| Embedded websites in Live View | Display and connect to pre-configured embedded website  |

**Map**

|            |   |
|------------|---|
| e-Map      | Yes   |
| Google Map | Yes   |
| Layout     | Area maps with camera icons, small live view windows, hyperlinked   |
| Setup      | e-Map image upload, Google maps settings and preset management, camera positioning, vision angle and pointed direction of camera, view positioning, source positioning, extended devices for Point-of-sale (POS), Access Control, Network I/O |
| PTZ Mode   | Mouse PTZ mode to control e-Map video streams   |

**PTZ**

|             |  |
|-------------|--|
| PTZ Control | PTZ Control, Speed Control, 32 preset points |
| Joystick    | USB based joystick supported                 |

**Video**

|                               |   |
|-------------------------------|---|
| Compression                   | H.265, H.264, MPEG-4, MJPEG                 |
| Hardware Accelerated Decoding | Yes (for workstation PC only), H.264, H.265 |
| Built-in Analytics            | Visual Tracking                             |

**Network**

|                            |  |
|----------------------------|--|
| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP Client, HTTP, HTTPS, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client), iSCSi |
| Ethernet Port              | 2 x Ethernet (1000 Base-T), RJ-45 connector  |

**Recording**

|                     |     |
|---------------------|-----|
| Scheduled Recording | Yes |
| Event Recording     | Yes |

|                              |          |
|------------------------------|----------|
| Manual Recording             | Yes      |
| Event Speed-up Recording     | Yes      |
| Dual Stream Management       | Yes      |
| Maximum Recording Throughput | 550 Mbps |

### Search & Playback

|                       |  |
|-----------------------|--|
| Playback Control      | Continuous forward and backward playback with speeds (1/64, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16, 32, 64, 128, 256) or frame-by-frame, pause, stop            |
| Synchronized Playback | 9 channels (Local), 64 channels (Remote)   |
| Recording Search      | Search video recordings by time, events, channels, bookmarks, notifications and listed as clickable time-based thumbnails for full-size view and snapshot download |
| Smart Search          | Smart search of recorded video by Motion Detection and Tamper  |
| Video Export          | RAW, AVI, MP4, EXE, GPU Hardware accelerated video export supported with AVI format  |
| Snapshot Export       | BMP, JPEG, PNG   |

### Event

|                |  |
|----------------|--|
| Video Push     | Support Video Push from ACTi Mobile Client devices   |
| Event Trigger  | <p>[NVR]: Disk full, Disk not found, Disk is available, S.M.A.R.T. Failure and Normal, Schedule service start and stop, Video Push start and stop, Time Backward, CPU limit exceeded for Server PC, CPU limit exceeded for NVR services, GPU Loading Detection for workstation only, Memory limit exceeded for Server PC and NVR services, Network Send/Receive Limit Exceeded for Server PC.</p> <p>[Video Device]: Video motion detection, Passive IR sensor, External device through digital input, Sound detection, Intelligent event detection, Video Push start and stop, Video loss and recovery, Disk Write Failure and Available.</p> <p>[Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status</p> |
| Event Response | Pop-up window with live video and event confirmation activation, Switch to hotspot window, Switch to customize view, Command a PTZ device to go to a preset point, Play alert sound, Activate external device through digital output, Execute system command to activate other programs, Upload video or snapshot to FTP server, E-mail notification with snapshots, Push notification, Send Snapshot to Line Messenger (v.3.0.16)   |

### Redundancy Server

|                    |   |
|--------------------|---|
| Redundancy Service | Yes, N-to-N, N+1 (With limited functions when NVR 3 server acts as Redundancy server) |
|--------------------|---|

### System

|                            |  |
|----------------------------|--|
| Permission control         | Unlimited number of users, Active Directory, Customizable permissions for user groups, Account lockout, Automatic logout after idle, Playback password protected, Password validity period, Password Expiration Notification |
| Client PC Operating System | Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Server Operating System    | Windows 10 IoT   |
| Mobile Client Program      | Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Event/time based search and playback, Supported device(s) iOS, Android device  |

|          |                                |
|----------|--------------------------------|
| USB      | 4-Port USB 2.0, 4-Port USB 3.1 |
| Language | Multi-Language                 |

## Integration

|                         |   |
|-------------------------|---|
| Unified Solution        | Fully compatible with ACTi cameras, encoders, central management system, TV wall and intelligent video surveillance software  |
| GPS Position            | Manual setting  |
| Edge Recording          | Automatically restore the lost videos from the memory card of camera to NVR server via ONVIF (Profile G) or proprietary protocol integrations after network connection recovery.  |
| ONVIF Compliant         | Yes, Profile S (contains the officially ONVIF conformant software NVR 3 Corporate)  |
| Web Browser             | IE 11 (Please verify that your computer meets the minimum system requirements for Internet Explorer from Microsoft website.), Lite web client: Microsoft Edge 80.0.361.66 (Normal mode) or newer, Google Chrome 71.0.3578 or newer, Firefox 64.0.2 or newer, Apple Safari 12.0.2 or newer |
| Third-party Integration | Point of Sale (POS), Access Control, Network I/O, Parking Management Station (PMS), (Various optional integrations requiring additional license)  |

## Storage

|                              |   |
|------------------------------|---|
| Supported Storage Technology | NAS, SAN                                      |
| System Drive                 | M.2 NVMe SSD, 250GB                           |
| Storage Bay                  | SATA, Max. 12 Disk(s) (without storage disks) |
| Removable Tray               | Yes   |
| Hot Swappable Drive          | Yes   |
| HDD Size                     | 3.5"  |
| Maximum Recording Capacity   | 22TB x12                                      |
| RAID Level                   | Hardware RAID 0, 1, 5, 6, 10, 50, 60          |

## Interface

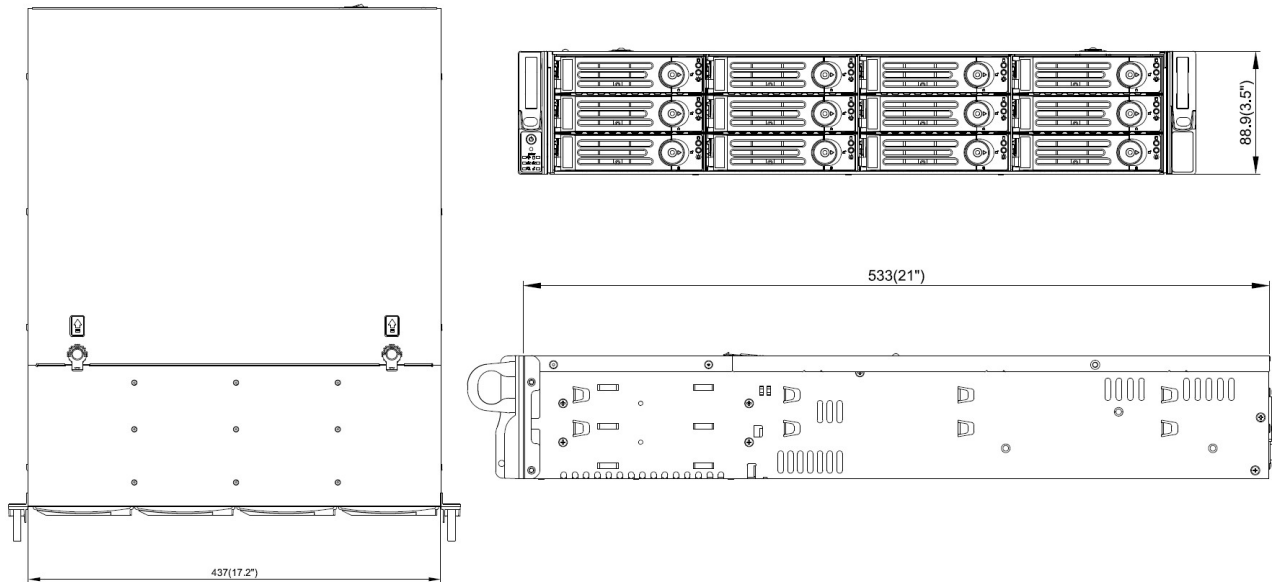
|                            |                                      |
|----------------------------|--------------------------------------|
| Serial Port                | 1 x RS-232                           |
| External Storage Interface | iSCSI                                |
| Expansion Slots Available  | 1 x PCIe 3.0 (x16) 3 x PCIe 3.0 (x1) |
| Local Access               | USB joystick, keyboard & mouse       |
| Local Display Interface    | HDMI x 1, DVI x 1, Display Port x 1  |

## General

|                       |  |
|-----------------------|--|
| Power Source          | AC 100-240V  |
| Power Supply          | 550W   |
| Weight                | 11744g (25.89lb)   |
| Dimensions            | (W x H x D): 437mm x 88.9mm x 533mm (17.2" x 3.5" x 20.98") Rack Space: 2U |
| Bundled Accessories   | Power cord, Rackmount rails  |
| Fan                   | Yes  |
| Operating Temperature | 10°C ~ 35°C (50°F ~ 95°F)  |

|                    |  |
|--------------------|--|
| Operating Humidity | 8% - 90% RH                            |
| Remote Access      | Workstation, Web Client, Mobile Client |
| Approvals          | CE Class B, FCC Class B, BSMI          |
| Color              | Silver                                 |







## ► Dimension Diagram









Unit: mm [inch]


## ► Related Products

### 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-2501 |  | HGST ULTRASTAR 7K6000 4TB 3.5" Hard Disk Drive, 7200 RPM 128MB Cache (for ENR-1xx, ENR-0x0P, ENR-22x, ENR-22xP)  |
| PHDD-2702 |  | WD Ultrastar 6TB 3.5" Hard Disk Drive, 7200 RPM 256MB Cache  |
| 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          |

**Other Accessories - Accessory Part**

|            |   |                                     |
|------------|---|-------------------------------------|
| R721-C0001 |  | Fan (for INR-406, INR-407, INR-415) |
|------------|---|-------------------------------------|