

# CNR-DS2100 Pro Series

Linux-embedded Standalone NVR



## 5 CH CNR-DS2105 Pro

| Video Recording          |                                    |
|--------------------------|------------------------------------|
| CH No.                   | Up to 5ch                          |
| Local Display Monitoring |                                    |
| Modes                    | 1, 4, 5+1, full screen, sequential |

## 9 CH CNR-DS2109 Pro

| Video Recording          |   |
|--------------------------|---|
| CH No.                   | Up to 9ch                               |
| Local Display Monitoring |   |
| Modes                    | 1, 4, 8,9, 5+1, full screen, sequential |

## 12 CH CNR-DS2112 Pro

| Video Recording          |   |
|--------------------------|---|
| CH No.                   | Up to 12ch  |
| Local Display Monitoring |   |
| Modes                    | 1, 4, 8, 9,10,12, 5+1/12+1, full screen, sequential |

## 16 CH CNR-DS2116 Pro

| Video Recording          |  |
|--------------------------|--|
| CH No.                   | Up to 16ch   |
| Local Display Monitoring |  |
| Modes                    | 1, 4, 8, 9,10,12,16, 5+1/12+1, full screen, sequential |

## 20 CH CNR-DS2120 Pro

| Video Recording          |  |
|--------------------------|--|
| CH No.                   | Up to 20ch   |
| Local Display Monitoring |  |
| Modes                    | 1, 4, 8, 9,10,12,16, 20, 5+1/12+1, full screen, sequential |

## 25 CH CNR-DS2125 Pro

| Video Recording          |  |
|--------------------------|--|
| CH No.                   | Up to 25ch   |
| Local Display Monitoring |  |
| Modes                    | 1, 4, 8, 9, 10, 12,16, 20, 25, 5+1/12+1, full screen, sequential |

## 32 CH CNR-DS2132 Pro

| Video Recording          |  |
|--------------------------|--|
| CH No.                   | Up to 32ch   |
| Local Display Monitoring |  |
| Modes                    | 1, 4, 8, 9, 10, 12,16, 20, 25, 5+1/12+1, full screen, sequential |

## 36 CH CNR-DS2136 Pro

| Video Recording          |  |
|--------------------------|--|
| CH No.                   | Up to 36ch   |
| Local Display Monitoring |  |
| Modes                    | 1, 4, 8, 9, 10, 12,16, 20, 25, 5+1/12+1, full screen, sequential |

## Main Features

- Real-time Liveview Local Display
  - Dual Display via HDMI/DVI
- Real-time Remote Browser Monitoring
  - Up to 36CH of single server
  - Liveview Display Modes: 1,4,8,9,10,12,16,20,25,30,36, 46, 49, 5+1/12+1, full screen and sequential mode
  - Built-in Mini-CMS server (up to 144CH)
  - Various Web Browsers in Windows OS
  - Quick Navigation with Dynamic E-Map
  - Multi-window Operation
- Excellent Megapixel Real-time Video Recording
  - 2 Megapixel Recording Resolution
  - Support 60FPS Camera Recording and Monitoring on Local Display and Remote Browser
- Multi-channel Playback on Remote Browser
  - Maximum 16-channel playback simultaneously
  - Event Instant Playback on Liveview and E-Map
  - Smart Search
- Monitoring everywhere via iOS and Android mobile device
- Multi-volume Storage Management with DIGIARRAY
- Up to 36TB Storage Capacity (6TB per HDD) (NVR:12TB + DIGIARRAY Storage Expansion Units: 24TB)
- Diverse Backup Methods
  - Export Files from Remote and Local Playback
  - Instant Export while Playback on Remote
  - One Touch USB Backup
  - Remote Backup to NAS
  - Cloud Backup to Dropbox
  - Export File with Free-Installation Video Player
- Powerful Event and Action Management
  - Detection of Device Connection Lost, External Events and Camera Motion/ IVA
  - Notification via Liveview Pop-out Window, Email, SMS, Buzzer and External Devices
- Advanced and Reliable Security System
  - Reliable Linux Security System
  - NVR Failover and System Monitoring
  - Detailed Complete log Information
  - Flexible User Privilege Management



Compatible Network Camera Brands and Partners

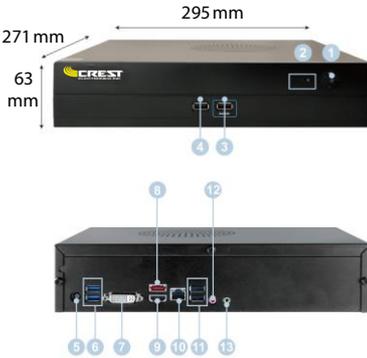


# Technical Specifications

| System                 |   |
|------------------------|---|
| Operating System       | Linux-embedded  |
| HDD Tray               | 2 (Internal)  |
| Maximum Capacity       | Up to 12TB (2.5"/3.5" SATA HDD x 2)   |
| LAN Port <sup>2</sup>  | Gigabit x 1   |
| USB Connector          | USB3.0 x 2 (Rear), USB2.0 x 4 (Front x 2, Rear x 2)   |
| Video Output Connector | HDMI x1, DVI-I x1 (For Dual Display)  |
| Disk Management        | Linear(JBOD), RAID0, RAID1  |
| Operating Temperature  | 0~40°C  |
| Operating Humidity     | 0~95% R.H.  |
| Power Supply           | External power adaptor, 120W<br>Input :19VDC, 6.31A   |
| Power consumption      | 42~55 W<br>(with 2 x 1TB HDD installed and in RAID1 building process)   |
| H/W Dimensions         | 63.2(H) x 295(W) x 271 (D) mm<br>2.49(H) x 11.61(W) x 10.67(D) inch   |
| User Interfaces        | (1) Remote Web Browsers:<br>Microsoft® Internet Explorer/ Chrome /Firefox /Opera / Safari in Windows (32-bit)<br>(2) Local display monitoring<br>(3) Mobile App: Android and iOS  |
| Supported Languages    | Croatian, Czech, Dansk, Deutsch, Dutch, English, Finnish, French, Indonesia, Italian, Japanese, Korean, Hungarian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish, Tradition Chinese, Simplified Chinese, Vietnamese |

| Liveview  |   |
|---|---|
| Liveview Control  | PTZ panel, PTZ Patrol, Auto Focus, Digital zoom in/out, Audio, Snapshot, Auto/Manual stream change, Event instant playback, Two way audio <sup>7</sup> , Panomorph <sup>8</sup> |
| E-Map <sup>3</sup>  | Multi-layer Maps, Pop-out Event Window, Event instant playback  |
| Mini-CMS Server Monitoring <sup>3</sup>                       | Up to 144 channels from multiple NVR sites  |
| Liveview Optimization   | Smart dual stream auto switch   |
| H/W Decode Local Display Max. FPS in Single Page <sup>4</sup> | Full HD 200FPS/ HD 300FPS/ D1 750FPS (H.264)  |

| Recording                            |   |
|--------------------------------------|---|
| Recording Modes                      | No recording, Event recording, Schedule recording, Always recording, Audio recording by event, Pre-event and Post-event recording |
| HDD Capacity Automatic Recycle       | (1) Max. days<br>(2) Total capacity percentage  |
| File format                          | AVI   |
| Video Format                         | H.264 · MPEG4 · MJPEG   |
| Max. Network Throughput <sup>5</sup> | 360Mbps   |

| Appearance  |  |
|---|--|
|  <p>271 mm<br/>295 mm<br/>63 mm</p> | <ol style="list-style-type: none"> <li>1. Power button</li> <li>2. LED indicators: HDD</li> <li>3. USB 2.0 x 1 (Support auto video backup)</li> <li>4. USB 2.0 x 1</li> <li>5. Power connector</li> <li>6. USB 3.0 x 2</li> <li>7. DVI-I</li> <li>8. eSATA x 1 (reserved)</li> <li>9. HDMI x 1</li> <li>10. Gigabit LAN x 1</li> <li>11. USB 2.0 x 2</li> <li>12. Audio mic input (reserved)</li> <li>13. Audio output (reserved)</li> </ol> |

| Playback                            |   |
|-------------------------------------|---|
| Multi-channel Playback <sup>6</sup> | Maximum 16-channel simultaneously   |
| Recording Types                     | Normal, Event, Video clip, Recovery and Time overlap  |
| Search Modes                        | Date, time, channel and recording type  |
| Smart Search                        | Motion detection, Foreign object detection, Missing object detection, Camera tampering detection, Lose focus  |
| Playback Control                    | Rewind, Slow motion, Fast forward, Frame by Frame Playback, Panomorph <sup>8</sup> , Snapshot   |
| Backup Methods                      | Export Files from Remote and Local Playback, One Touch USB Backup, Remote backup to NAS, Cloud backup, Instant export while playback videos on remote |
| Video Player                        | Installation-free NVRPlayer   |

| Event & Action Management |   |
|---------------------------|---|
| Event Types               | Camera connection lost, NVR connection lost, Motion detection, Camera digital input and External event (HTTP in), Recording error   |
| Action Types              | Alert sound, Event log notification, Video pop-out window, Highlight video window, Event recording, E-mail notification, Video clip/ snapshot via E-mail, User defined action, Buzzer alarm, SMS, Go to PTZ preset point, External I/O box, Camera digital output |

| Security Management     |  |
|-------------------------|--|
| User Privilege          | Administrator, Power user and User   |
| System Log Information  | Hardware log, System log, Event log, File access log, Current user log and Historical user log |
| NVR Failover            | Monitor up to 4 NVRs in default (Option up to 16 NVRs)   |
| IP Range Access Control | White/Black List to permit or prohibit specific IP address                                     |
| Timeout Setting         | Set up auto timeout period   |
| Advanced Security       | Video Watermark and Password on exported video file  |

| Network Service  |  |
|------------------|--|
| Protocol         | HTTP · HTTP · TCP/IP · DHCP · DNS · DDNS · UPnP · FTP · NTP · SMTP |
| File Sharing     | Windows networking · FTP service                                   |
| Built-in Servers | Built-in DHCP/NTP Server   |

| Remote Web Browser PC Requirements |  |
|------------------------------------|--|
| OS (32 and 64-bit)                 | Windows Vista / 7 / 8  |
| CPU                                | < 16CH: Intel Dual Core CPU 3.0GHz or above<br>≥ 16CH: Intel i5/i7 CPU 3.3GHz or above |
| Memory                             | < 16CH: DDR3 4G or above<br>≥ 16CH: DDR3 8G or above                                   |

\* All designs and specifications are subject to change without prior notice.

Note1. The standard system is shipped without HDD.

Note2. User is advised to connect cameras and NVR with gigabit switch

Note3. E-Map and Built-in Mini-CMS Server Monitoring is not supported on local display.

Note4. The max. resolution on liveview and playback of local display supports up to Full HD. Remote web browser's max. resolution is the same as recording.

Note5. Maximum network throughput is varied in different environment.

Note6. Multi-channel playback on remote web browsers is supported up to 16 channels and multi-channel playback on local display is supported up to 4 channels.

Note7. Camera is needed to support two-way audio and integrated with NVR. On local site, it is necessary to prepare a USB type external audio sound adapter for connecting speaker/microphone to NVR.

Note8. NVR supports dewarping display image of ACTI, AXIS, VIVOTEK, Immersion Panomorph and fisheye cameras.



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