CREST
ELECTRONICS INC

Video Security Since 1974

CNR-DS1100 Pro Series

Linux-embedded Standalone NVR

Full HD H/W DECODE

intel inside

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5 CH — CNR-DS1105 Pro

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

9 CH — CNR-DS1109 Pro

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

12 CH — CNR-DS1112 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-DS1116 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-DS1120 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-DS1125 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-DS1132 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-DS1136 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

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Main Features

- **Real-time Liveview Local Display**
  - Dual Display via HDMI/VGA
- **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 30TB Storage Capacity (Up to 6TB per HDD)**
  (NVR: 6TB + 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

Linux Embedded | HDMI/DVI Local Display | Mini-CMS Server | 6 TB | Multi-volume RAID1 + RAID5 + RAID10 | MJPEG MPEG-4 H.264 | Remote Backup | USB Backup | Dropbox | PTZ Control | Video Encryption | Water Mark | iPhone/Android | 60FPS Cameras H./W Decode Support | Quick Configuration 5 Steps

Auto NTP Synchronize | NVR Recovery | Various Web Browsers | E-Map | Smart Search | User Privilege Management | White List Black List | Failover | E-Mail Notification | SMS | Go to Preset Point | External I/O Box | Buzzer Alarm | External Event HTTP in | User-Defined Action HTTP out

Compatible Network Camera Brands and Partners

ACTi | Afidus | Air Live | AirLink101 | A-MTK | APPRO | Arecont Vision | AVTECH | avigilon | AXIS | BASLER | belkin | BlueEyes | BOSCH | Brickcom | BUFFALO | Canon | certis | centrix | CP PLUS | CNB | D-Link

dahua | DIVIO | DYNACOLOR | ELMO | ETROVISION | Genie | GeoVision | GIGAMEDIA | GRUNDIG | HDPRO | HIKVISION | hiQview | HUNT | HUVIRON | iCanTek | IDIS | JVC | KAASKY | level one | LG

LILIN | Linear | LINKSYS | iMega | intelbras | MESSOA | MOBOTIX | NEXCOM | optimus | Panasonic | PLANET | PROBE | PROMBUT | QIHAN | RIV | SAMSUNG | SANYO | SECUBEST | SecuRex | SHANY | SONY

SpezVision | SPRO | STAR-NET | SUNELL | Surveon | TAKEX | TANTOS | TESCOM | TOPICA | TriClouds | UDP | viseo | VIVOTEK | YOKO | YUDOR | ZAVIO | 3S

Technical Alliance: asustor | AXIS ADP Program | intel inside | Onvif | Seagate | WD

Technical Specifications

System

Operating System	Linux-embedded
CPU	Intel Dual Core CPU
HDD Tray	1 (Internal)
Maximum Capacity	Up to 6TB (2.5"/3.5" SATA HDD x 1)
LAN Port[2]	Gigabit x 1
USB Connector	USB3.0 × 2 (Rear), USB2.0 × 4 (Front x 2, Rear x 2)
Video Output Connector	HDMI x1, DVI-I x1 (For Dual Display)
Disk Management	Single
Operating Temperature	0~40℃
Operating Humidity	0~95% R.H.
Power Supply	External power adaptor, 90W Input :19VDC, 4.74A
Power consumption	38.5W~45W (with 1 x 1TB HDD installed and in Single building process)
H/W Dimensions	59(H) x 237(W) x 192(D) mm 2.3(H) x 9.33(W) x 7.56(D) inch
User Interfaces	(1) Remote Web Browsers: Microsoft® Internet Explorer/ Chrome /Firefox /Opera / Safari in Windows (32-bit) (2) Local display monitoring (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[6], Panomorph[7]
E-Map[3]	Multi-layer maps, Pop-out event window, Event instant playback
Mini-CMS Server Monitoring[3]	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[4]	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 (2) Total capacity percentage
File format	AVI
Video Format	H.264、MPEG4、MJPEG
Max. Network Throughput[5]	360Mbps

Playback

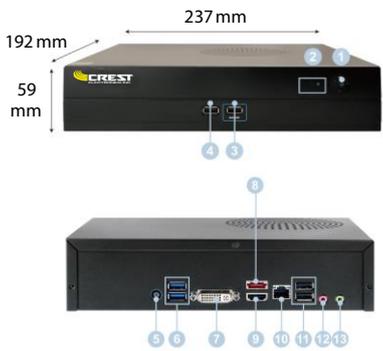|	
Multi-channel Playback[6]	Maximum 16-channel simultaneously
Recording Types	Normal, Event, Video clip, Recovery and Time overlap
Search Modes	Date, time, channel and recording type
Smart Search	Motion detection, Foreign object detection, Missing object detection, Camera tampering detection, Lose focus
Playback Control	Rewind, Slow motion, Fast forward, Frame by Frame Playback, Panomorph[7], 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 with multi-channel playback

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、HTTPS、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 ≧16CH:Intel i5/i7 CPU 3.3GHz or above
Memory	<16CH:DDR3 4G or above ≧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. NVR supports dewarping display image of ACTi, AXIS, VIVOTEK, Immervision Panomorph and fisheye camera.

Appearance

1. Power button
2. LED indicators: HDD
3. USB 2.0 x 1 (Support auto video backup)
4. USB 2.0 x 1
5. Power connector
6. USB 3.0 x 2
7. DVI-I
8. eSATA x 1 (reserved)
9. HDMI x 1
10. Gigabit LAN x 1
11. USB 2.0 x 2
12. Audio mic input (reserved)
13. Audio output (reserved)

237 mm
192 mm
59 mm