

CNR-DS2000 Series

Linux-embedded Standalone NVR



5 CH CNR-DS2005

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

9 CH CNR-DS2009

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

12 CH CNR-DS2012

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

16 CH CNR-DS2016

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

20 CH CNR-DS2020

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

25 CH CNR-DS2025

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

32 CH CNR-DS2032

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

Main Features

- Real-time Remote Browser Monitoring
 - Up to 32CH 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
- Excellent Megapixel Real-time Video Recording
 - 2 Megapixel Recording Resolution
 - Support 60FPS Camera Recording and Monitoring
- Multi-channel Playback on Remote Browser
 - Maximum 16-channel playback simultaneously
 - Event Instant Playback on Liveview and E-Map
 - Smart Search
- Trouble-free Installation in 5 Steps
- Monitoring everywhere via iOS and Android mobile device
- Multi-volume Storage Management with DIGIARRAY
 - Up to 58TB Storage Capacity (5TB per HDD) (NVR:10TB + DIGIARRAY Storage Expansion Units: 48TB)
- 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
 - Detailed Complete log Information
 - Flexible User Privilege Management
- Diverse Backup Methods
 - Export Files from Remote Playback
 - One Touch USB Backup
 - Remote Backup to NAS
 - Cloud Backup to Dropbox
 - Export File with Free-Installation Video Player



Compatible Network Camera Brands and Partners



Technical Alliance asustor, AXIS ADP Program, intel inside, OnVIF, Seagate, IWD

Technical Specifications

System	
Operating System	Linux-embedded
CPU	RISC
HDD Tray	2 (Swappable)
Maximum Capacity	Up to 10TB (2.5"/3.5" SATA HDD x 2)
LAN Port ²	Gigabit x 1
USB Connector	USB2.0 x 3 (Front x 1, Rear x 2)
GPIO	4-in, 2-out
Disk Management	Single, JBOD, RAID0, RAID1
Operating Temperature	0~40°C
Operating Humidity	0~95% R.H.
Security Design	K-Lock security slot for theft prevention
Power Supply	External power adaptor, 60W Input: 19VDC, 3.42A
Power consumption	15.9~20.8 W (with 2 x 500GB HDD installed and in RAID 1 building process)
H/W Dimensions	246.1(D) x 114.97(W) x 164.94(H) mm 9.69(D) x 4.53(W) x 6.49(H) inch
User Interfaces	(1) Remote Web Browsers: Microsoft® Internet Explorer/ Chrome /Firefox /Opera / Safari in Windows (32-bit) (2) 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 ⁷ , Panomorph ⁸
E-Map	Multi-layer Maps, Pop-out Event Window, Event instant playback
Mini-CMS Server Monitoring	Up to 144 channels from multiple NVR sites
Liveview Optimization	Smart dual stream auto switch

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 ³	150Mbps

Appearance	
	<ol style="list-style-type: none"> LED indicators: LAN, eSATA, HDD1, HDD2 Power button USB BACKUP button (For auto video backup) USB 2.0 x 1 (Support auto video backup) HDD1 HDD2
	<ol style="list-style-type: none"> Gigabit LAN x 1 10. USB 2.0 x 2 eSATA x 2 (reserved) 10. DI/DO (4 in 2 out) Reset button Power connector K-lock security slot

Playback	
Multi-channel Playback	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 ⁴ , 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, 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
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 (10/100/1000).

Note3. Maximum network throughput is varied in different environment.

Note4. NVR supports dewarping display image of ACTI, AXIS, VIVOTEK, Immersion Panomorph and fisheye cameras.



3706 Alliance Drive, Greensboro, NC 27407
1-888-50-CREST
CrestElectronics.com