DIGIEVER

DS-4000 Series

Linux-embedded Standalone NVR

Linux | H.265 SUPPORT

DS-4005 (5 CH)

Video Recording

CH No.	Up to 5ch

Remote Monitoring

Modes	1, 2, 3, 4, 5, 5+1, full screen, sequential

DS-4009 (9 CH)

Video Recording

CH No.	Up to 9ch

Remote Monitoring

Modes	1, 2, 3, 4, 5, 8, 9, 5+1, full screen, sequential

DS-4012 (12 CH)

Video Recording

CH No.	Up to 12ch

Remote Monitoring

Modes	1, 2, 3, 4, 5, 8, 9, 10, 12, 5+1/12+1, full screen, sequential

DS-4016 (16 CH)

Video Recording

CH No.	Up to 16ch

Remote Monitoring

Modes	1, 2, 3, 4, 5, 8, 9, 10, 12, 16, 5+1/12+1, full screen, sequential

Key Features

- **Real-time Remote Monitoring**
  - Built-in Mini-CMS Server (up to 256CH)
  - Quick Navigation with Dynamic E-Map
  - Liveview Instant Playback
  - Multi-window Operation
  - Region of Interest (ROI):
    Monitor 5 or 7 Regional Images from One High-resolution Camera
- **Excellent Megapixel Real-time Video Recording**
  - Up to 12 Megapixel Recording Resolution
  - Camera Group Recording:
    Assign Video Keeping Days for Each Camera
  - Support 120FPS Camera Recording and Monitoring
- **Multi-channel Playback**
  - Maximum 16-channel playback simultaneously
  - Event Instant Playback on Liveview and E-Map
  - Remote Multi-NVR Playback
  - Time-divided Search: Quickly Find the Key Frame to Export Related Video and Snapshot
  - Event Search: Explore Event Data in A Smarter and More Efficient Way
  - Smart Search
  - Export Video with Watermark
- **Up to 92TB Storage Capacity (3TB per HDD)**
  (NVR:12TB + DIGIARRAY Storage Expansion Units: 80TB)
- **Multi-RAID Configuration for Future HDD Expansion**
- **Multi-volume Storage Management with DIGIARRAY**

- **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
  - Event & Action Summary
- **Advanced and Reliable Security System**
  - Reliable Linux Security System
  - Integrated Access Control Server
  - Integrated Modbus Analog I/O-Digital I/O Box Server
  - Manage and Configure DIGIEVER PoE Switches on NVR
  - Detail Log Information
  - Integrated IP Video Door Intercom Server
  - Flexible User Privilege Management
- **Diverse Backup Methods**
  - Export Files from Remote Playback
  - One Touch USB Backup
  - Become NVR Backup Server
  - Local Backup to DIGIARRAY: Schedule/Manual
  - Remote Backup to NAS: Schedule/Manual
  - NVR Edge Backup
  - Event Backup to External FTP: Video Clip & Snapshot
  - Export File with Free-Installation Video Player
- **S.M.A.R.T HDD Health Monitoring**
- **Trouble-free Installation in 5 Steps**
- **Monitor Everywhere via iOS and Android Mobile Device**

Linux Embedded | 3TB | Multi-volume RAID 0,1,5,6,RAID10 | Megapixel Recording | Mini-CMS Server | JBOD RAID 0,1,5 | H.265 H.264 MJPEG MxPEG | Hot Swap | USB Backup | Local Backup to DIGIARRAY | NVR Backup Server | Video Encryption | Water Mark | iPhone/Android | Quick Configuration 5 Steps

Auto NTP Synchronize | NVR Recovery | E-Map | Multi-channel Playback | Time-divided Search | Smart Search | User Privilege Management | White List Black List | SMS | E-Mail Notification | Build-in DI/DO | Go to Preset Point A→B | External I/O Box | External Event HTTP in | User-Defined Action HTTP out

Compatible Network Camera Brands and Partners

AXIS | ACTi | ifidus | AIPHONE | Air Live | AviLink | A MTK | APPRO | Arecont Vision | AVTECH | AVIGILON | BASLER | belkin | BBT | BlueEyes | BOSCH | Brickcom | BUFFALO | Canon | certis | centrix | CP PLUS | CNB | D-Link | alhua | DIVIO | DYNACOLOR

ELMO | ETROVISION | EverFocus | FLIR | Genie | GeoVision | GIGAMEDIA | GRUNDIG | Hanwha | HDPRO | HIKVISION | HITACHI | hiQview | HUNT | iCanTek | IDIS | iMega | Infinova | intelbras | JVC | KAANSKY | LG | LILIN | Linear

LINKSYS | MESSOA | micae | Milesight | MITSUBISHI | NEXCOM | NOVUS | ONLY | optimus | Panasonic | PIXORD | PLANET | PROBE | PROMISE | QIHAN | QUATTRO MAX | SAMSUNG | SANYO | SECUBEST | SecuRex | SHANY | SHARP | SONY

SpaceVision | SPRO | SUNELL | Surveon | TAKEX | TANTOS | TESCOM | TVT | TOSHIBA | TOPICA | TriClouds | UDP | VISEE | VIVOTEK | YOKO | XeronVision | VUPOS | ZAVIO | ZNV | 3S

Technical Alliance

AXIS ADP Program | intel inside | Onvif | Seagate | WD | asuster

Technical Specifications

System

Operating System	Linux-embedded
CPU	RISC
HDD Tray	4 (Swappable)
Maximum Capacity[1]	Up to 12TB (2.5"/3.5" SATA HDD x 4)
LAN Port[2]	Gigabit x 1
USB Connector	USB2.0 × 3 (Front x 1, Rear x 2)
GPIO	4-in, 2-out
Disk Management	Single, JBOD, RAID0, RAID1, RAID5
Multi-RAID Number	Up to 2 volume
Operating Temperature	0~40℃
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	Operation: 25.5~28.4W (with 4 x 500GB HDD installed and in RAID 5 building process)
Certification	CE, FCC, BSMI, VCCI and C-TICK
H/W Dimensions	184.94(H) x 205.3(W) x 245.8(D) mm 7.28(H) x 8.08(W) x 9.68(D) inch
User Interfaces	(1) Remote Client (2) Mobile App: Android and iOS
Supported Languages	Bulgarian, 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, Instant playback, ROI, Two way audio[4], Panomorph[5]
E-Map	Multi-layer Maps, Pop-out Event Window, Event instant playback
Mini-CMS Server Monitoring	Up to 256 channels from multiple NVR sites
Liveview Optimization	Smart dual stream auto switch

Recording

Max. Network Throughput[5]	150Mbps
File format	AVI
Video Format	H.265, H.264, MPEG4, MJPEG, MxPEG, Axis Zipstream(H.264)
HDD Capacity Automatic Recycle	(1) Max. days of each camera (2) Total capacity percentage
Recording Modes	No recording, Event recording, Schedule recording, Always recording, Audio recording by event, Pre-event and Post-event recording, Manual recording

Appearance

246mm

185 mm

205mm

1. LED indicators: LAN, eSATA, HDD1, HDD2, HDD3, HDD4
2. Power button
3. USB BACKUP button (For auto video backup)
4. USB 2.0 x 1 (Support auto video backup)
5. HDD1
6. HDD2
7. HDD3
8. HDD4
9. Gigabit LAN x 1
10. USB 2.0 x 2
11. eSATA x 2 (reserved)
12. DI/DO (4 in 2 out)
13. Reset button
14. Power connector
15. K-lock security slot

Playback

Multi-channel Playback	Maximum 16-channel simultaneously
Multi-NVR Playback	Remotely playback recording videos up to 16-channel from multiple DIGIEVER NVRs
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, ROI, Customized watermark
Backup Methods	Export Files on remote and local playback, One touch USB backup, Become NVR backup server, Local backup to DIGIARRAY, Remote backup to NAS, NVR edge backup, Instant export while playback videos on remote, Event backup to external FTP
Video Player	Installation-free NVRPlayer with multi-channel playback

Event & Action Management

Event Types	(1) Camera Events:
	   Connection lost, Connection lost delay, Motion detection, Audio detection, Cross-line detection, Digital input
	(2) NVR Events:
	   NVR connection lost, UPS low power warning, Storage Threshold warning, Abnormal shutdown, External event (HTTP in), Built-in digital input
	(3) Storage Event:
	   RAID Degraded/ Rebuilding/ Failed
	(4) NVR Hardware Events:
	   CPU temperature warning, CPU fan warning, System fan warning, HDD error warning, HDD fail warning

Action Types	Alert sound, Event log history, Video pop-out window, Highlight video window, Event recording, E-Mail notification, Video clip/ snapshot via E-Mail, SMS, Buzzer alarm, Go to pre-set point, Camera digital output, External IO box, User-defined action (HTTP out), Backup to external FTP, Stack light, Network horn speaker, Built-in digital output
Chain Event	Precise alarms when multi-events triggered within user-defined time

Security Management

User Privilege	Administrator, Power user and User
Advanced User Management	Random password sent by Email, Account expiration by assigning a specific date
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	HTTPS, HTTP, TCP/IP, DHCP, DNS, DDNS, UPnP, FTP, NTP, SMTP, IPv6 (for NVR)
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/ 10
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 DIGIEVER NVR with gigabit switch.
Note3. Maximum network throughput is varied in different environment.
Note4. Camera is needed to support two-way audio and integrated with DIGIEVER NVR.
Note5. DIGIEVER NVR supports dewarping display image of ACTi, AXIS, VIVOTEK, ImmerVision Panomorph and fisheye cameras.