# DIGIEVER

# DS-8500-SRM Pro+ & DS-85000-SRM Pro+ Series

## Linux-embedded Standalone NVR

**4K UHD** H/W DECODE | **128CH** RECORDING | **H.265** SUPPORT | **NETWORK THROUGHPUT 550Mbps** | Linux

intel inside

| | | | |
|---|---|---|---|
| **64 CH DS-8564-SRM Pro+** | **72 CH DS-8572-SRM Pro+** | **80 CH DS-8580-SRM Pro+** | **88 CH DS-8588-SRM Pro+** |
| Video Recording | Video Recording | Video Recording | Video Recording |
| CH No. — Up to 64ch | CH No. — Up to 72ch | CH No. — Up to 80ch | CH No. — Up to 88ch |

| | | | | |
|---|---|---|---|---|
| **96 CH DS-8596-SRM Pro+** | **104 CH DS-85104-SRM Pro+** | **112 CH DS-85112-SRM Pro+** | **120 CH DS-85120-SRM Pro+** | **128 CH DS-85128-SRM Pro+** |
| Video Recording | Video Recording | Video Recording | Video Recording | Video Recording |
| CH No. — Up to 96ch | CH No. — Up to 104ch | CH No. — Up to 112ch | CH No. — Up to 120ch | CH No. — Up to 128ch |

## Key Features

### ■ Real-time Liveview Local Display
- 64 Channels Hardware Decode Local Display
- Liveview Display Modes: 1, 2, 3, 5, 6, 8, 9, 10, 12, 16, 20, 25, 30, 32, 36, 42, 49, 56, 64, 5+1, 12+1, Full Screen, Sequential Mode
- Marvelous PC-less Solution:
  Dual Display, Mirror Display, Target Display, eMap Display
- Dewarp up to 12 MP Panomorph IP cameras
- Two-way Audio via USB Type Sound Adapter
- Liveview Instant Playback

### ■ Real-time Remote Monitoring
- 64 Channels 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
- YouTube/Facebook Live: Live Streaming Broadcast

### ■ Excellent Megapixel Real-time Video Recording
- Up to 128 Channels Real-time Recording
- Up to 12 Megapixel Recording Resolution
- Camera Group Recording:
  Assign Video Keeping Days for Each Camera
- Support 120FPS Camera Recording
- Event Smart Recording
- Schedule Snapshot:
  Automatic Snapshot of All Selected Cameras

### ■ Multi-channel Playback
- Maximum 16-channel Playback Simultaneously
- Remote Multi-NVR Playback, Smart Search & Bookmark
- Data Search: Explore Event & Meta-Data in a Smarter and More Efficient Way
- Time-divided Search: Quickly Find the Key Frame to Export Related Video and Snapshot
- Export Video with Watermark

### ■ Monitor Everywhere via iOS and Android Mobile Device

### ■ Up to 256TB Storage Capacity (Up to 16TB per HDD)
(NVR: 128TB + DIGIARRAY Storage Expansion Units: 128TB)
- Connect up to 4 iSCSI Servers for Storage Expansion
- Two User-defined Storage Volume Modes:
  Multi-RAID Storage Volume & Single HDD Storage Volume

### ■ S.M.A.R.T HDD Health Monitoring

### ■ 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
- NVR Failover and System Monitoring
- Built-in NVR Relay Server
- Built-in SNMP Server to Central Monitor NVRs' Status
- Integrated POS Terminals for Transaction Surveillance
- Integrated Access Control Server
- Integrated Modbus Analog I/O-Digital I/O Box Server
- Integrated IP Video Door Intercom Server
- Manage and Configure DIGIEVER PoE Switches on NVR
- Detail Log Information
- Flexible User Privilege Management
- 4 Smart Access Ways:
  Anonymous Access, Reboot Auto Access, Timeout Auto Access, and Active Directory (AD) Access

### ■ Diverse Backup Methods
- Become NVR Backup Server: Schedule/ Manual
- NVR Edge Backup
- One Touch USB Backup (Support FAT32 & NTFS format)
- 3 External Devices for Video Backup:
  DIGIARRAY, USB Device, NAS (Schedule/ Manual)
- Export Files from Remote and Local Playback
- Instant Export while Playback on Remote
- Export File with Free-Installation Video Player
- Event Backup to External FTP: Video Clip & Snapshot

Linux Embedded | HDMI/VGA Local Display | Mini-CMS Server | 16 TB | Multi-volume RAID 0 · RAID 5 · RAID 10 | Hot Swap | H.265 H.264 MJPEG MxPEG | JBOD RAID 0,1,5,6,10 | Network Throughput 550Mbps | USB Backup | NVR Backup Server | Video Encryption | Water Mark | iPhone/Android | 120FPS Cameras Support

Quick Configuration 5 Steps | Dual IP | NVR Recovery | Built-in Relay Server | E-Map | Smart Search | User Privilege Management | White List Black List | Failover | Two-way Audio | Build-in DI/DO | External I/O Box | E-Mail Notification | External Event HTTP in | User-Defined Action HTTP out

## Compatible Network Camera Brands and Partners
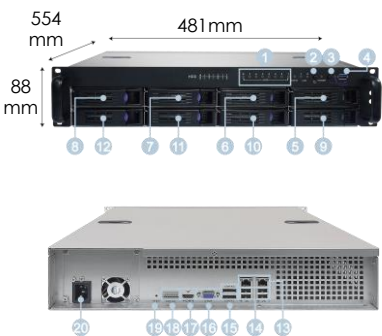
# Technical Specifications

## System

| | |
|---|---|
| CPU | Intel Quad Core High Speed CPU |
| Operating System | Linux-embedded |
| HDD Tray | 8 (Swappable) |
| Maximum Capacity[1] | Up to 128TB (2.5"/3.5" SATA HDD x 8) |
| LAN Port[2] | Gigabit x 2 |
| USB Connector | USB3.0 × 1（Front）、USB2.0 × 4（Rear） |
| GPIO | 4-in, 2-out |
| Video Output Connector | HDMI x1, VGA x1 (For two-screen display) |
| Disk Management | Linear (JBOD), RAID 0/1/5/6/10 |
| Max, Storage Volume | Up to 8 volume (Global Hot Spare) |
| Operating Temperature | 0～40℃ |
| Operating Humidity | 0~95% R.H. |
| Power Supply | Input: 100-240V AC, 50/ 60Hz, Output: 300W |
| Power consumption | 84 W (with 8 x 500GB HDD installed and in RAID 5 building process) |
| Certification | CE, FCC, BSMI, VCCI and C-TICK |
| H/W Dimensions | 88.1(H) x 481(W) x 554(D) mm  3.46(H) x 18.9(W) x 21.8(D) inch |
| User Interfaces | (1) Local display monitoring/playback/setting  (2) Remote Client with login shortcut  (3) Mobile App: Android and iOS |
| Supported Languages | Bulgarian, Croatian, Czech, Dansk, Deutsch, Dutch, English, Finnish, French, Indonesia, Italian, Japanese, Korean, Hebrew, Hungarian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish, Tradition Chinese, Simplified Chinese, Vietnamese |

## Liveview

| | |
|---|---|
| H/W Decode Max Resolution per Channel | Resolution up to 8MP (4K UHD) per channel (H.264) |
| H/W Decode Local Display Max. FPS in Single Page | 4MP 360FPS/ Full HD 900FPS/ HD 1200FPS/ D1 1600FPS (H.264) |
| Two-screen Display | Mirror display to monitor the same cameras at two sites,  Dual display to monitor more cameras on two monitors,  Target display to focus on key areas during video playback,  eMap display to monitor cameras with a detailed map information |
| Liveview Control | PTZ panel, PTZ Patrol, Auto Focus, Digital zoom in/out, Audio, OSD settings, Snapshot, Auto/Manual stream change, Instant playback, ROI, Two-way audio[6], Panomorph[7] |
| E-Map[3] | Multi-layer maps, Double-click to pop-out video window, Pop-out event window, Event instant playback |
| Mini-CMS Server Monitoring[3] | Up to 256 channels from multiple NVR sites |
| Liveview Optimization | User-defined dual stream auto switch |

## Recording

| | |
|---|---|
| Max. Network Throughput[4] | 550Mbps |
| Video Format[8] | H.265, H.264, MPEG4, MJPEG, MxPEG, Axis Zipstream(H.264) |
| File format | AVI |
| 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



554 mm
481mm
88 mm

1. LED indicators: LAN, eSATA, HDD1, HDD2, HDD3, HDD4, HDD5, HDD6, HDD7, HDD8
2. Power button
3. USB BACKUP button (For auto video backup)
4. USB 3.0 x 1 (Support auto video backup)
5. HDD1
6. HDD2
7. HDD3
8. HDD4
9. HDD5
10. HDD6
11. HDD7
12. HDD8
13. Gigabit LAN x 2
14. USB 2.0 x 4
15. eSATA x 2
16. VGA output
17. HDMI output
18. DI/DO (4 in 2 out)
19. Reset button
20. Power connector

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

## Playback

| | |
|---|---|
| Multi-channel Playback[5] | 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, Time overlap, Failover (remote), USB device (local) |
| 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, Time-divided search, Bookmark, Data search |
| Backup Methods | Export Files on remote and local playback, One touch USB backup(FAT32 & NTFS), Become NVR backup server, Local backup to DIGIARRAY and USB device, 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, Temperature detection, People counting threshold alarm, Digital input, etc.  (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  (3) NVR Hardware Events:  CPU temperature warning, CPU fan warning, System fan warning, HDD error warning, HDD fail warning, Redundant power supply failure (Optional) |
| 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, SNMP trap, External IO box, Stack light, Network horn speaker, User-defined action (HTTP out), Backup to External FTP, Built-in digital output |
| Chain Event | Precise alarms when multi-events triggered within user-defined time |

## Security Management

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|---|---|
| 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, Historical user log |
| NVR Failover | Monitor up to 4 NVRs in default (Option up to 16 NVRs) |
| Access Control Device Management | Manage up to 4 access control devices in default (Option up to 16 devices) |
| External Modbus Analog I/O-Digital I/O Box | Connect up to 4 Modbus A/IO-D/IO boxes in default (Option up to 16 boxes) |
| 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

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|---|---|
| Protocol | HTTP, TCP/IP, DHCP, DNS, DDNS, UPnP, FTP, NTP, SMTP, IPv6 (for NVR) |
| Two LAN Port Applications | Share IP, Separated IP and Load balance |
| 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 7 / 8 / 10 |
| CPU | ≧16CH: Intel i5/i7 CPU 3.3GHz or above |
| Memory | ≧16CH: DDR3 8G or above |

Note1. The standard system is shipped without HDD.
Note2. User is advised to connect cameras and DIGIEVER NVR with gigabit switch.
Note3. E-Map and Built-in Mini-CMS Server Monitoring is not supported on local display.
Note4. Maximum network throughput is varied in different environment.
Note5. Multi-channel playback on remote web browsers is supported up to 16 channels and multi-channel playback on local display is supported up to 5 channels.
Note6. Camera is needed to support two-way audio and integrated with DIGIEVER NVR. On local site, it is necessary to prepare a USB type external audio sound adapter for connecting speaker/microphone to NVR.
Note7. DIGIEVER NVR supports dewarping display image of ACTi, AXIS, VIVOTEK, ImmerVision Panomorph and fisheye cameras.
Note8. DIGIEVER NVR supports H.264, MPEG4, MJPEG, MxPEG format for local display.

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