



# DIGIEVER

## DS-4100-RM Series

4K Hardware Decode 4-bay Rack-mount Type  
H.265/H.264 Linux-embedded NVR

**9** CH **DS-4109-RM**  
Local Display Monitoring

**12** CH **DS-4112-RM**  
Local Display Monitoring

**16** CH **DS-4116-RM**  
Local Display Monitoring

**20** CH **DS-4120-RM**  
Local Display Monitoring

**25** CH **DS-4125-RM**  
Local Display Monitoring

**32** CH **DS-4132-RM**  
Local Display Monitoring



### Key Features

- ◆ Superb 4K UHD Hardware Decode
- ◆ Support Full HD or XGA Display
- ◆ Built-in RAID 0/1/5/6/10 with Hot-swappable HDD Design
- ◆ Multi-NVR & Multi-channel Simultaneous Playback



### Compatible Network Camera Brands and Partners



Technical Alliance



# Multifunctional All-In-One DIGIEVER NVR

## ■ Superb Full HD Hardware Decode & Full HD Local Display

- Support up to 8MP (4K UHD) IP Camera
- Dewarp Panomorph IP Cameras
- Liveview Display Modes: 1,2,3,4,5,8,9,10,12,16,20,25,30,36,5+1/12+1, Full Screen and Sequential Mode
- Liveview Instant Playback
- Two-way Audio via USB Type Sound Adapter

## ■ Real-time Remote Monitoring

- Liveview Display Modes: 1,2,3,4,5,8,9,10,12,16,20,25,30,36,42,49,56,64,5+1/12+1, Full Screen and Sequential Mode
- Built-in Mini-CMS Server (up to 256-channel)
- Built-in NVR Relay Server
- Liveview Instant Playback
- Multi-window Operation
- Quick Navigation with Dynamic E-Map
- Region of Interest (ROI): Monitor 5 or 7 Regional Images from One High-resolution Camera

## ■ Monitor Everywhere via iOS and Android Mobile Device

## ■ Megapixel Real-time Video Recording

- Up to 56TB Storage Capacity
- S.M.A.R.T HDD Health Monitoring
- Multi-RAID Configuration for Future HDD Expansion
- Connect up to 4 iSCSI Server to Expand Storage Space
- Up to 12 Megapixel Recording Resolution
- Support 120FPS Camera Recording and Monitoring
- Camera Group Recording: Assign Video Keeping Days for Each Camera
- Event Smart Recording for Always Recording

## ■ Multi-channel Playback

- Maximum 16-channel Playback Simultaneously
- Remote Multi-NVR Playback & Smart Search
- Event Instant Playback on Liveview and E-Map
- 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
- Export Video with Watermark

## ■ 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
- Configuration-Free Alarm Notification for HDD Error/ Failed
- Chain Event to Have Accurate Event Notification
- Intuitive Event & Action Summary

## ■ Advanced and Reliable Security System

- Stable and Secure Linux-embedded System
- Hot Swappable HDD Design
- 5 Steps Quick Configuration
- White/Black List for IP Range
- Detail Log Information
- Flexible User Privilege Management
- NVR Failover and System Monitoring
- Auto Power Resume after Power Shortage
- Built-in SNMP Server to Central Monitor NVRs' Status
- Manage and Configure DIGIEVER PoE Switches on NVR

## ■ Diverse Backup Methods

- Export Files from Remote and Local Playback
- Instant Export while Playback on Remote
- USB Backup to External USB Device/ DVD
- Become NVR Backup Server
- Remote Backup to NAS: Schedule/Manual
- NVR Edge Backup
- Event Backup to External FTP: Video Clip & Snapshot
- Export File with Free-Installation Video Player

## ■ Comprehensive Compatible Ability

- Support H.265/ H.264/ MJPEG /M-PEG4/ MxPEG
- Support 120+ Brands and 7000+ IP Cameras
- Support ONVIF Profile / Generic RTSP & MJPEG
- Support Uninterruptible Power Supply (UPS)
- Integrated Access Control Server
- Integrated Modbus Analog I/O-Digital I/O Box Server
- Integrated IP Video Door Intercom Server

# Technical Specifications

System	
CPU	Intel Quad-core CPU
Operating System	Linux-embedded
HDD Tray	4 (Swappable)
Maximum Capacity <sup>1</sup>	Up to 56TB (HDD 2.5" / 3.5" SATA II/ III or SSD x 4)
LAN Port <sup>2</sup>	Gigabit Ethernet x 4
USB Connector	USB 3.0 x 4 (Type A)
Video Output Connector	HDMI 1.4b x1
Disk Management	Linear(JBOD), RAID 0/1/5/6/10
Multi-RAID Number	Up to 2 volume (Global Hot Spare)
Operating Temperature	0~40°C (32°F~104°F)
Operating Humidity	5%~95% R.H.
Power Supply	Output: 250W Input power voltage: 100-240V AC, 50/ 60Hz
Power Consumption	13.6W~35W
Certification	FCC, CE, VCCI, BSMI, C-TICK
H/W Dimensions	44(H) x 439(W) x 51.5(D) mm 1.72(H) x 17.28(W) x 20.26(D) inch
Operation 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) (H.265 & H.264)
Hardware Decode Max. FPS in Single Page	4K (8MP):90FPS, Full HD: 360FPS, D1:480FPS, CIF:480FPS
Max. FPS in Single Channel	Up to 120FPS per CH
Liveview Control	PTZ Panel, PTZ Patrol, Auto Focus, Digital zoom in/out, Audio, Snapshot, Auto/Manual stream change, Instant playback, ROI, Two way audio <sup>6</sup> , Panomorph <sup>7</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 256 channels from multiple NVR sites
Liveview Optimization	Smart dual stream auto switch

Recording	
Max. Network Throughput <sup>4</sup>	400Mbps
Video Format	H.265, H.264, MPEG4, MJPEG, MxPEG, Axis Zipstream
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	
1. Power button and LED indicator	9. Inspection LED indicator for rear panel
2. Inspection button and LED indicator	10. Reset button
3. System status LED indicator	11. HDMI 1.4b output
4. Network LED indicator	12. USB 3.0 x 4 (Support auto video backup)
5. HDD1	13. Gigabit LAN x 4
6. HDD2	14. Console port (Reserved)
7. HDD3	15. Power connector
8. HDD4	

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

Playback	
Multi-channel Playback <sup>5</sup>	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 <sup>3</sup>	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>7</sup> , Snapshot, ROI, Customized watermark
Backup Methods	Export Files on remote and local playback, USB backup, Become NVR backup server, 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) <u>Camera Events</u> : Connection lost, Connection lost delay, Motion detection, Audio detection, Cross-line detection, Temperature detection, People counting threshold alarm (2) <u>NVR Events</u> : NVR connection lost, UPS low power warning, Storage Threshold warning, Abnormal shutdown, External event (HTTP in) (3) <u>Storage Event</u> : RAID Degraded/ Rebuilding/ Failed (4) <u>NVR Hardware Events</u> : 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, SNMP trap, External IO box, Stack light, Network horn speaker, Backup to external FTP and User-defined action (HTTP out)
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
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	
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 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

Note1. The standard system is shipped without HDD.

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

Note3. E-Map, Built-in Mini-CMS Server Monitoring and Smart Search are 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 4 channels.

Note6. Camera is needed to support two-way audio/ corridor mode 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.