

DS-16300-RM Pro+ Series

Linux-embedded Standalone NVR

















DS-16316-RM Pro+

Video Recording Up to 16ch CH No.

DS-16332-RM Pro+

Video Recording Up to 32ch CH No.

DS-16349-RM Pro+

Video Recordina CH No. Up to 49ch DS-16320-RM Pro+

Video Recording Up to 20ch CH No.

36 DS-16336-RM Pro+

Video Recording CH No. Up to 36ch

DS-16356-RM Pro+

Video Recording		
CH No.	Up to 56ch	

DS-16325-RM Pro+

Video Recording CH No. Up to 25ch

DS-16342-RM Pro+

Video Recording CH No. Up to 42ch

DS-16364-RM Pro+ Video Recordina CH No. Up to 64ch

Key Features

■ Real-time Liveview 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 Panomorph IP Cameras

Liveview Instant Playback

■ Real-time Remote Monitoring

• Built-in Mini-CMS server (up to 256CH)

Quick Navigation with Dynamic E-Map

• Liveview Instant Playback

Region of Interest (ROI)

YouTube/Facebook Live: Live Streaming Broadcast

- Up to 384TB Storage Capacity (Up to 16TB per HDD (NVR: 256TB+ DIGIARRAY Storage Expansion Units: 128TB)
 - Connect up to 5 iSCSI Servers for Storage Expansion
 - Two User-defined Storage Volume Modes: Multi-RAID Storage Volume & Single HDD Storage Volume
- 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
- 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
- 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



Compatible Network Camera Brands and Partners

Technical Specifications

System	
CPU	Intel High Speed CPU
Operating System	Linux-embedded
HDD Tray	16 (Swappable)
Maximum Capacity ¹	Up to 256TB (2.5"/3.5" SATA HDD x 16)
LAN Port ²	Gigabit x 2
USB Connector	USB2.0 × 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
Operating Temperature	0~40°C
Operating Humidity	0~95% R.H.
Power Supply	Input: 100-240V AC, 50/ 60Hz, Output: 600W
Max. Storage Volume	Up to 16 volume (Global Hot Spare)
Power consumption	178 W (with 16 x 500GB HDD installed and in RAID 5 building process)
Certification	CE, FCC, BSMI, VCCI
H/W Dimensions	133.4(H) x 430(W) x 551.5(D) mm 5.25(H) x 16.92(W) x 21.71(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, <u>Dual display</u> to monitor more cameras on two monitors, <u>Target display</u> to focus on key areas during video playback, <u>eMap display</u> to monitor cameras with a detailed map information
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, 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	450Mbps
Video Format ⁸	H.265, H.264, MPEG4, MJPEG, MxPEG, Axis Zipstream(H.264)
File format	AVI
HDD Capacity Automatic	(1) Max. days of each camera
Recycle	(2) Total capacity percentage
	No recording, Event recording, Schedule
Recording Modes	recording, Always recording, Audio recording
	by event, Pre-event and Post-event recording

Appearance





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1. LED indicators: LAN1, LAN2, eSATA, HDD1 ~ HDD16 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. HDD5	10. HDD6 11. HDD7 12. HDD8 13. HDD9 14. HDD10 15. HDD11 16. HDD12 17. HDD13 18. HDD14 19. HDD15 20. HDD16	21. Gigabit LAN x 2 22. USB 2.0 x 4 23. eSATA x 2 24. VGA output 25. HDMI output 26. DI/DO (4 in 2 out) 27. Reset button 28. Power connector 29. Power switch

^{*} 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,, 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 (4) 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 Managemer	ıt erile
User Privilege	Administrator, Power user and User
Advanced User	Random password sent by Email, Account
Management	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
NVK Fallovel	(Option up to 16 NVRs)
Access Control Device	Manage up to 4 access control devices in
Management	default (Option up to 16 devices)
External Modbus Analog	Connect up to 4 Modbus A/IO-D/IO boxes
I/O-Digital I/O Box	in default (Option up to 16 boxes)
IP Range Access	White/Black List to permit or prohibit
Control	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 7 / 8/ 10
CPU	≥16CH: Intel i5/i7 CPU 3.3GHz or above
Memory	≥ 16CH: DDR3 8G or above

Memory

| ≥ 16 CH: DDR3 8G or above
Note	The standard system is shipped without HDD.
Note	Suer is advised to connect cameras and DIGIEVER NVR with gigabit switch.
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Note	Suer is advised in dini-CMS Server Monitoring is not supported on local display.
Note	Nutli-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.
Note	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.
Note	DIGIEVER NVR supports dewarping display image of ACTI, AXIS, VIVOTEK,
ImmerVision Panomorph and fisheye cameras.	
Note	DIGIEVER NVR supports H.264, MPEG4, MJPEG, MxPEG format for local display.