



DS-16200-RM Pro+ Series

Linux-embedded Standalone NVR



16 CH DS-16216-RM Pro+

| Video Recording | |
|--------------------------|---|
| CH No. | Up to 16ch |
| Local Display Monitoring | |
| Modes | 1, 3, 4, 5, 8, 9, 10, 12, 16, 5+1, 12+1, Full Screen, Sequential Mode |

20 CH DS-16220-RM Pro+

| Video Recording | |
|--------------------------|---|
| CH No. | Up to 20ch |
| Local Display Monitoring | |
| Modes | 1, 3, 4, 5, 8, 9, 10, 12, 16, 20, 5+1, 12+1, Full Screen, Sequential Mode |

25 CH DS-16225-RM Pro+

| Video Recording | |
|--------------------------|---|
| CH No. | Up to 25ch |
| Local Display Monitoring | |
| Modes | 1, 3, 4, 5, 8, 9, 10, 12, 16, 20, 25, 5+1, 12+1, Full Screen, Sequential Mode |

32 CH DS-16232-RM Pro+

| Video Recording | |
|--------------------------|---|
| CH No. | Up to 32ch |
| Local Display Monitoring | |
| Modes | 1, 3, 4, 5, 8, 9, 10, 12, 16, 20, 25, 30, 5+1, 12+1, Full Screen, Sequential Mode |

36 CH DS-16236-RM Pro+

| Video Recording | |
|--------------------------|---|
| CH No. | Up to 36ch |
| Local Display Monitoring | |
| Modes | 1, 3, 4, 5, 8, 9, 10, 12, 16, 20, 25, 30, 36, 5+1, 12+1, Full Screen, Sequential Mode |

Main Features

- Impressive Hardware Decode 4K Ultra HD Performance
- Real-time Liveview Local Display
 - Marvelous PC-less Solution: Dual Display or Mirror Display
- Real-time Remote Browser Monitoring
 - Various Web Browsers on Windows OS
 - Liveview Display Modes: 1,3,4,5,8,9,10,12,16,20,25,30,36, 42,49,56,64, 5+1/12+1, Full Screen and Sequential Mode
 - Built-in Mini-CMS Server (up to 256CH)
 - Quick Navigation with Dynamic E-Map
 - Multi-window Operation
- Excellent Megapixel Real-time Video Recording
 - Up to 10 Megapixel Recording Resolution
 - Support 60FPS Camera Recording and Monitoring on Local Display and Remote Browser
- Multi-channel Playback on Remote Browser
 - Maximum 16-channel Playback Simultaneously
 - Event Instant Playback on Liveview and E-Map
 - Remote Multi-NVR Playback
 - Smart Search
- Monitoring everywhere via iOS and Android Mobile Device
- Multi-volume Storage Management with DIGIARRAY
 - Up to 144TB Storage Capacity (Up to 6TB per HDD) (NVR:96TB + 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
 - NVR Failover and System Monitoring
 - Integrated Access Control Server
 - Integrated Modbus Analog I/O-Digital I/O Box Server
 - Detail Log Information
 - Flexible User Privilege Management
- Diverse Backup Methods
 - Export Files from Remote and Local Playback
 - Instant Export while Playback on Remote
 - 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




Technical Specifications

| System | |
|-------------------------------|--|
| Operating System | Linux-embedded |
| CPU | Intel High Performance CPU |
| HDD Tray | 16 (Swappable) |
| Maximum Capacity ¹ | Up to 144TB (2.5"/3.5" SATA HDD x 16) (NVR:96TB + DIGIARRAY: 48TB) |
| LAN Port ² | Gigabit x 2 |
| USB Connector | USB2.0 x 1(Front), USB2.0 x 4 (Rear) |
| GPIO | 4-in, 2-out |
| Video Output Connector | HDMI x1, VGA x1 (For Dual Display) |
| Disk Management | Linear(JBOD), RAID0/ 1/ 5/ 10 |
| Operating Temperature | 0~40°C |
| Operating Humidity | 0~95% R.H. |
| Power Supply | Input: 100-240V AC, 50/ 60Hz, Output: 600W |
| Power consumption | 178 W (with 16 x 500GB HDD installed and in RAID 5 building process) |
| Certification | CE, FCC, BSMI |
| 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 Web Browsers: Microsoft® Internet Explorer/ Firefox /Opera / Safari in Windows (32-bit) (3) 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 | |
|--|---|
| 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 200FPS/ Full HD 480FPS/ HD 720FPS/ D1 1000FPS (H.264) |
| Display Capability | Dual display to display different liveview display modes on two monitors, Mirror display to display same liveview display mode on two monitors |
| 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, Pop-out event window, Event instant playback |
| Mini-CMS Server Monitoring ³ | Up to 256 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 · Axis Zipstream(H.264) |
| Max. Network Throughput ⁴ | 400Mbps |

| Appearance | |
|--|------------------------|
|  | |
| 1. LED indicators: LAN1, LAN2, eSATA, HDD1 ~ HDD16 | 10. HDD6 |
| 2. Power button | 11. HDD7 |
| 3. USB BACKUP button (For auto video backup) | 12. HDD8 |
| 4. USB 2.0 x 1 (Support auto video backup) | 13. HDD9 |
| 5. HDD1 | 14. HDD10 |
| 6. HDD2 | 15. HDD11 |
| 7. HDD3 | 16. HDD12 |
| 8. HDD4 | 17. HDD13 |
| 9. HDD5 | 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 |

| 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 |
| 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 | (1) <u>Camera Events</u> : Connection lost, Connection lost delay, Motion detection, Audio detection, Digital input (2) <u>NVR Events</u> : NVR connection lost, Recording error, UPS low power warning, Storage Threshold warning, Abnormal shutdown, External event (HTTP in), built-in digital input (3) <u>NVR Hardware Events</u> : 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, User-defined action (HTTP out), Built-in digital output |

| 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, 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 i5/i7 CPU 3.3GHz or above |
| Memory | ≥ 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. 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 4 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.

Authorized Dealer: