DIGIEVER

DIGIEVER NVR

TOTAL SOLUTIONS

Linux-embedded
IP Video
Surveillance
Solutions

4K UHD H/W DECODE

64CH REAL-TIME

NETWORK THROUGHPUT 650 Mbps

EMPOWER YOUR VISION

Compatible Network Camera Brands and Partners

AXIS COMMUNICATIONS, ACTi Connecting Vision, fidus, AIPHONE, Air Live, AirLink 101, A-MTK, APPRO, Arecont Vision, AVTECH, avigilon, BASLER, belkin, BlueEyes, BOSCH, Brickcom, BUFFALO, Canon, certis, centrix, CP PLUS enhancing vision, CNB Technology Inc., D-Link, alhua Technology, DIVIO, DYNACOLOR, ELMO, ETROVISION, EverFocus, FLIR, Genie, GEN SECURITY, GeoVision, GIGAMEDIA, GRUNDIG, HDPRO, HIKVISION, hiQview, HUNI, HUVIRON, iCAN TEK, IDIS, iMege, Infinova, intelbras, JVC, KAANISKY, level one, LG, LILIN, Linear, LINKSYS, MESSOA, MOBOTIX, micae, NEXCOM, optimus, Panasonic, PIXORD, PLANET, PROBE, PROMELIT, PROVISION ISR, QUATRE-PLAN, QIHAN, RIVA, SAMSUNG, SANYO, SECUBEST, SecuRex, SHANY, SONY, SpezVision, SPRO, STAR-NET, SUNELL, Surveon, TAKEX, TANTOS, TESCOM, TVT, TOPICA, TOA, TriClouds, TITANUS, UDP Technology, VIDigi, viseo, VIVOTEK, YOKO, XeronVision, YUPOR, ZAVIO, ZNV, 3S

Compatible UPS Brands

APC, CyberPower, OMRON, VISION

Compatible Access Control Brands

HID, HUNDURE

Technical Alliance

AXIS ADP Program, asustor, InnoVision Enabler, intel inside, Seagate, ONVIF, WD

Linux-embedded IP Video Surveillance Solutions

- Linux-embedded Standalone DIGIEVER NVR Server
- Central Management Software DIGIEVER CMS
- Linux-embedded Wide-range Temperature Mobile NVR
- Linux-embedded Hardware Decode Video Wall Decoder
- Storage Expansion Box DIGIARRAY
- Industrial Layer 2+ Full Management PoE Switch
- Mobile Surveillance App DIGIMobile V2

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All-in-one Standalone NVR Solutions

Real-time Local Display

- 4K UHD hardware decode performance
- Up to 64CH realtime local display
- Dual display to monitor different liveview screens on two monitors

Two LAN Port Applications

Flexibly deploy your network environment:
- Separated IP : Maximize network efficiency and bandwidth stability
- Load Balance: Share two internet traffics into one faster connection

Storage Expansion Box

- Multi-volume storage management
- Hardware RAID with HDD Hot-swap design
- Expand up to 40TB with 4HDDs per DIGIARRAY

Remote Monitoring

All-in-one Standalone NVR Solutions

- Built-in NVR server
- Built-in Mini-CMS server
- Built-in failover server
- Built-in NVR relay server
- Integrated access control server
- Integrated Modbus A/IO-D/IO box server
- Integrated IP Video Door Intercom Server
- Built-in NVR backup server
- Built-in DHCP server
- Built-in NTP server
- Built-in SNMP client

Video Wall Decoder

- 4K UHD hardware decode performance
- Up to 64CH realtime local display
- Dual display to monitor different liveview screens on two monitors

Mini-CMS Server Monitoring

- Up to 256 channels
- Simultaneously monitor other remote NVR sites

Central PoE Switch Management

- Complete PoE port information
- Easily restart IP cameras

Integrated IP Video Door Intercom Server

- Centrally control multiple sites of door stations
- Always recording: Record the video captured from door station
- Event recording: Record when someone press call button

NVR Failover Server

- Check NVR and HDD status every minute
- Monitor up to 4 NVR recording servers in default (Option up to 16 NVRs)
- Failover: Take over failed NVR for monitor and recording
- Failback: NVR restores its original video recording and monitoring function

CMS / Video Wall

- Up to 1024 channels via CMS-Client
- Up to 64 channels per monitor via CMS-Matrix
- 5 levels of user privilege management to set up security for users in a variety of ways

Integrated Modbus A/IO-D/IO Box Server

Integrated Access Control Server

- Control up to 4 access control devices in default (Option up to 16 devices)
- Centrally manage card information
- Quick data filter and export access log from card reader

SNMP Client

- Intelligentl NVR check system
- Notify users of NVR situation: Recording error, UPS low power, hardware events ,etc

Remote Backup

- Backup important surveillance videos to NAS
- Detail backup history list for security control

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Real-time Liveview Local Display

- 4K UHD hardware decode performance
- Support 4K UHD (8 megapixel) IP cameras
- Display up to 64CH real-time video per page
- Marvelous PC-less solution: Dual / Mirror display
- Instant playback on liveview
- Smart dual stream auto switch
- Support ImmerVision panamorph dewarp
- Dewarp up to 5MP Panomorph IP cameras
- Support 60FPS camera recording and monitoring
- Two-way audio via USB type sound adapter

Real-time Remote Monitoring

- Support up to 10 megapixel IP cameras
- Support 60FPS camera recording and monitoring
- Remote monitor and playback via independent application on Window OS
- Support ImmerVision panamorph dewarp
- Support Region of Interest (ROI)
- Mini-CMS server monitoring: Connect 256 channels
- Multi-layer dynamic E-map (Pop-out event window, event log history, event instant playback)
- Instant playback on liveview
- Smart dual stream auto switch
- Multi-window operation

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Intuitive Multi-channel Playback

- Maximum 16-channel simultaneous playback*
- Multi-NVR playback*
- Time-divided search
- Smart search to quickly find key video*
- Playback speed control to shorten video tracking time
- Export file with playlist and portable NVRPlayer
- Digital watermark check via NVRCheck

Multi-NVR Playback

Remotely playback up to 16-channel of recorded videos from multiple DIGIEVER NVRs to easily track the path of moving objects in different locations.

Smart Search

Without setup in advance, you can quickly find out key videos at the specific moment in five detection modes.

Time-divided Search

Based on display mode (2x2, 3x3, 3x4), DIGIEVER NVR will divide a video into many snapshots and display the first frame of that period of time on each channel to save your time to find key video or snapshot.

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Excellent Video Recording

- Up to 10 Megapixel recording resolution
- Support ONVIF, generic RTSP & MJPEG to connect IP cameras
- Various recording modes
- Diverse video compression formats: H.264, MPEG-4, MJPEG, MxPEG
- Smart threshold & auto recycle storage management
- Camera group recording: Assign video keeping days for each camera by categorizing cameras in groups
- Dual-stream recording: Recording in high resolution or lower resolution
- Flexible video formats: Play in NVRPlayer or in general player

Comprehensive Compatible Capability

Various Recording Modes

Camera Group Recording

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Powerful Event and Action Management

- Up to 21 event types and 19 action types
- Four main event types for instant event notification
- Chain event to reduce the rate of false alarm

Events

Actions

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Diverse Backup Methods

- Export files with password on playback page
- Instant export while playback videos
- One touch USB backup
- DIGIEVER NVR as Backup Server
- Remote backup to NAS
- Edge Backup: Save vital camera's video to another NVR
- Event Backup to External FTP: Video clip & snapshot
- Windows Networking and FTP service

- Freely define backup schedule of each camera
- Intuitively playback video on backup server

Superior Hardware Design

- Intel high speed quad core CPU
- High network throughput for high megapixel recording
- Up to 10TB storage capacity per hard disk drive
- Built-in advanced RAID configuration with hot swap design
- S.M.A.R.T HDD Health Monitoring
- Built-in DI/DO of 4-in 2-out
- Automatic recovery from power outage
- Integrated with UPS device for effective UPS management
- Storage extension via eSATA port
- Password protection for power button shutdown (admin/ power user)

UPS Device Supported for Power Outage

DIGIEVER NVR

All-in-one Standalone Linux-embedded
4K Hardware Decode Network Video Recorder

Advanced and Reliable Security System

- Stable and secure Linux-embedded system
- NVR failover and system monitoring
- Integrated with access control device*
- Integrated with A/IO-D/IO box*
- Built-in NVR relay server
- Integrated with IP video door intercom system*
- Detail log information
- User privilege management
- Flexible permission and prohibition of IP range

Complete Log Record for Trouble Shooting

NVR Failover and System Monitoring

* Note1: DIGIEVER NVR supports HID (V2000) and HUNDURE (RAC-960 and RAC-970) access control device for now.
*Note2: DIGIEVER NVR supports Advantech (ADAM-6024) Modbus A/IO-D/IO box for now.
*Note3: DIGIEVER NVR supports Aiphone IX series for now.

Smart and Simple Operation

- The same user interface on local and remote
- Support 25+ language versions
- Trouble free installation in 5 Steps
- Multi-window operation
- Intelligent EZ Search of NVR
- Easy to use by USB mouse and keyboard

The Same User Interface on Local and Remote

Multi-window Operation

DIGIEVER CMS

Large-scale Central Management Software

DIGIEVER Central Management System (DIGIEVER CMS) is a central management system to centrally manage different sites of DIGIEVER NVRs. Composed of two intelligent video software, CMS-Client and CMS-Matrix, DIGIEVER CMS can manage large-scale surveillance efficiently and effectively.

CMS-Client (Central Management Software)

- Manage up to 1024 channels via NVR
- Monitor up to 64 channels per page
- Multi-task monitoring on multi-monitor
  - Multi-layer dynamic E-map navigation
  - Multi-channel playback and smart search
  - Manage and configure video wall

CMS-Matrix (Video Wall Software)

- Ideal for control room monitoring
- User-defined display mode
- Flexible monitor scalability based on the numbers of display card

DIGIEVER CMS

Large-scale Central Management Software

Intuitive Liveview Monitoring

- Manage up to 1024 channels via NVR
- Monitor up to 64 channels per page
- User-defined display mode
- Camera image rotation for corridor mode
- Camera group management for sequential monitoring
- Camera group playback
- Smart stream optimization to save bandwidth
- Instant playback on event panel

Image Roation

Camera Group Playback

Multi-layer Dynamic E-map

- Multi-layer map tree
- User-defined icons
- Camera icon status notification
- Video pop-out windows (up to 10 windows at a time)
- E-map thumbnail links to access to related maps

E-map Thumbnail Links

DIGIEVER CMS

Large-scale Central Management Software

Intuitive Multi-channel Playback

- Maximum 16-channel simultaneous playback
- Multi-NVR playback
- Time-divided search
- Smart search to quickly find key video
- Playback speed control to shorten video tracking time
- Export file with portable NVRPlayer
- Digital watermark check via NVRCheck

Flexible System Configuration

- Auto NVR detection
- Flexible license upgrade
- Powerful event and action management:
  Up to 7 NVR event types and 6 action types
- User privilege management:
  5 levels with user-defined authority
- Detail log information for security control and trouble shooting
- Save/ load configuration to speed up surveillance deployment
- Support 10+ language versions

Build Video Wall with CMS-Matrix

- Multi-monitor liveview monitoring
- User-defined display mode
- Assign different layouts to diverse monitors
- Support sequential mode
- Preview video wall setting on CMS-Client for remote configuration
- Flexible monitor scalability based on the numbers of display card
- Restore point: save monitor and layout settings
- Support ImmerVision panamorph dewarp

Mobile NVR

MN-2100 Pro+ and MN-1100 Pro+ Series
The World's First Linux-embedded Wide-range Temperature 4K Hardware Decode Mobile NVR

Excellent Display Performance

- Up to 36 channels real-time local display
- Support 4K UHD (8M) IP cameras
- Up to 300Mbps network throughput
- Marvelous PC-less solution: Dual/ Mirror display
- Support 60FPS and ImmerVision panomorph cameras

Superb Hardware Design

- Wide-range temperature (-20 ~ 70°C / -4 ~ 158°F) for tough environments
- Up to 2TB storage capacity per HDD
- Built-in 4 LAN ports with optional PoE power module
- Support optional Wi-Fi/4G and GPS/G-sensor

High Integration Ability

- Fleet management via DIGIEVER CMS
- Support third party VMS integration via DIGIEVER SDK

Video Wall Decoder

VD Series
The World's First Linux-embedded 4K Hardware Decode Video Decoder

Superb 4K UHD Local Display

- Support 8 megapixel (4K UHD) IP camera
- Up to 64CH real-time liveview performance
- Marvelous PC-less solution: Dual/ Mirror display
- Dual-stream optimization for better video quality
- Support 60FPS and ImmerVision panomorph dewarp

User-friendly Design

- Trouble-free installation in 4 steps
- Quickly add NVR and camera via UPnP search
- Save/ Load configuration file via USB dongle and PC
- PC-less operation with USB type keyboard and mouse
- Convenient remote controller (Optional)

Multi-channel Playback

- 4-channel simultaneous playback from DIGIEVER NVRs
- Playback speed control to shorten video tracking time
- Intuitive Thumbnail preview

Comprehensive Compatible Capability

- Support over 120 brands and more than 5500 IP cameras
- Support ONVIF/ Generic RTSP & MJPEG

Various Applications

DIGIARRAY

DA-4000E
Storage Expansion Box for DIGIEVER NVR

Robust Scalability up to 40TB

- Up to 10TB storage capacity per hard disk drive

Multi-volume Storage Management

- No impact on NVR performance when extending storage size
- Flexibly configure different RAID types on NVR and DIGIARRAY

Easy Expansion via eSATA Interface

- Fast and efficient video transmission: SATA III 6Gbps transmission speed
- Quickly connect to DIGIEVER NVR

Easy Deployment with Plug-and-Play Design

- Hot swap design in case of HDD failure
- Storage portable design to move all HDDS to another DIGIARRAY

Rock-solid Hardware RAID

- Safe, reliable and high speed
- Various hardware RAID types: JBOD(Linear), RAID 0,1,5,10
- Quick RAID setting

Robust Scalability up to 40TB

One DIGIARRAY can expand up to 40TB storage capacity with 4 hard disk trays. Each hard disk tray supports up to 10TB capacity. In addition, one DIGIEVER NVR can be connected up to 2 DIGIARRAY units and 8 HDDs in total.

DIGIEVER PoE Switch

FM Series/ WS Series
Industrial Layer 2+ Full Management/ Web Smart Gigabit PoE Switch with Advanced Surveillance Functions

Industrial Layer 2+ Full Management PoE Switch

- Spanning Tree (STP/ RSTP/ MSTP)
- QoS (CoS/ Rate Limitation/ Priority Queue)
- Snooping (IGMP/ IPv6 MLD)
- SNMP (v1/ v2c/ v3)
- Up to 4K of VLAN group numbers
- Storm Control (Broadcast/ Multi-cast/ Unknown Unicast)
- Sampled Flow
- IEEE 802.3ad -Link Aggregation Control
- IEEE 802.3x Flow Control
- Authorization on Radius/ TACACS+

Reliable and Easy-to-use Surveillance Ability

- Support QoS to prioritize video streaming in network traffic
- Ultra-high backplane capacity for data transmission
- Remotely restart network devices from PoE port management
- Up to 30W per port to power PTZ cameras
- Create large numbers of VLANs for network efficiency
- Built-in SFP cages with optional SFP transceivers for large-scale surveillance environment
- Generate network topology diagram to easily organize the network architecture
- Support dual firmware image to ensure stable operation

Professional PoE Port Management

- High scalability with diverse selection of PoE ports: 8, 16 and 24
- Up to 250W high PoE power budget
- IEEE 802.3 af/at standard compatible
- Adjustable voltage PoE (Max. 30W per port)
- Support power device detection for easy deployment
- Enable/Disable PoE port separately

Central Switch Management on DIGIEVER NVR

- Compatible to DIGIEVER NVR with simple installation
- Intuitive web-based configuration: Quickly search and name switches on DIGIEVER NVR
- Configure switch's IP address and restart switch on DIGIEVER NVR
- Intuitive configuration to monitor PoE power consumption
- On/off PoE port to restart PoE network devices from NVR
- Complete port overview to display camera's IP address

DIGIMobile V2

Monitoring Everywhere via iOS & Android Mobile Device

Liveview

- View videos from multiple phones at the same time
- ImmerVision panomorph dewarp in single-mode
- Dual stream auto switch
- Compression format: H.264
- Display mode: 1/4/6 and sequential mode
- Support PTZ control, pinch to zoom and audio

Playback

- Quick playback methods: Event playback and continuous playback
- Playback speed control: Fast forward and slow motion
- Frame by frame playback and rewind
- Support pinch to zoom and audio
- Time bar control

Advanced Features

- Quickly add NVR in LAN via EZ Search
- Directly control NVR liveview on local display
- Quick event sorting method
- Multi-languages support
- Event push notification
- Instant event notification
- Quick monitoring from favorites

Event Log

Remote Control

Favorites

ImmerVision Panomorph Dewarp

Push Notification

DIGIEVER NVR Pro+ IV & V Comparison

DIGIEVER NVR	DS-16500-RM Pro+ series	DS-16400-RM Pro+ series	DS-8400-SRM Pro+ series
Model Name	DS-16564/56/49/42-RM Pro+	DS-16464/56/49/42-RM Pro+	DS-8464/8456/8449/8442-SRM Pro+
CPU	Intel Quad Core Extreme Speed CPU	Intel Quad Core High Speed CPU	Intel Quad Core High Speed CPU
Supported Channel	Up to 64/56/49/42	Up to 64/56/49/42	Up to 64/56/49/42
Operation System	Linux-embedded		
Maximum Network Throughput	650Mbps	550Mbps	550Mbps
Support Local Display	Yes (HDMI/ VGA)		
Max Resolution Support on Local Display	Up to 8 Megapixel (4K UHD)/channel		
Max. Channel Supported on Local Display	Up to 64 channels/ page		
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)		
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)		
Storage Capacity per HDD	Up to 10TB (2.5"/3.5" HDD)		Up to 8TB (2.5"/3.5" HDD)
Storage Expansion Units (DIGIARRAY)	2 Units		
HDD Tray	24 (NVR:16 + DIGIARRAY Storage Expansion: 8)		16 (NVR:8 + DIGIARRAY Storage Expansion: 8)
Maximum Capacity[3]	Up to 240TB (NVR:160TB + DIGIARRAY Storage Expansion: 80TB)		Up to 144TB (NVR:64TB + DIGIARRAY Storage Expansion: 80TB)
Disk Configuration	Linear(JBOD), RAID 0/1/5/6/10		
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out		
Network Port[4]	Gigabit x 2		
USB Backup	Yes		
USB Connector	Front:USB2.0x1(For USB Backup) / Rear: USB2.0x4		Front:USB3.0x1(For USB Backup) / Rear: USB2.0x4
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		88.1(H) x 481(W) x 554(D) mm 3.46(H) x 18.9(W) x 21.8(D) inch

DIGIEVER NVR Pro+ III Comparison

DIGIEVER NVR	DS-16300-RM Pro+ series	DS-8300-SRM Pro+ series	DS-4300-RM Pro+ series	DS-4300 Pro+ series
Model Name	DS-16364/16356/16349/16342/16336/ 16332/16325/16320/16316-RM Pro+	DS-8364/8356/8349/8342-SRM Pro+	DS-4364/4356/4349/4342/ 4336/4332-RM Pro+	DS-4364/4356/4349/4342/ 4336/4332 Pro+
CPU	Intel High Speed CPU			
Supported Channel	Up to 64/56/49/42/36/32/25/20/16	Up to 64/56/49/42	Up to 64/56/49/42/36/32	Up to 64/56/49/42/36/32
Operation System	Linux-embedded			
Maximum Network Throughput	450Mbps			
Support Local Display	Yes (HDMI/ VGA)			
Max Resolution Support on Local Display	Up to 8 Megapixel (4K UHD)/channel			
Max. Channel Supported on Local Display	Up to 64 channels/ page			
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)			
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)			
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)			
Storage Capacity per HDD	Up to 10TB (2.5"/3.5" HDD)	Up to 8TB (2.5"/3.5" HDD)		
Storage Expansion Units (DIGIARRAY)	2 Units			
HDD Tray	24 (NVR:16 + DIGIARRAY Storage Expansion: 8)	16 (NVR:8 + DIGIARRAY Storage Expansion: 8)	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)	
Maximum Capacity[3]	Up to 240TB (NVR:160TB + DIGIARRAY Storage Expansion: 80TB)	Up to 144TB (NVR:64TB + DIGIARRAY Storage Expansion: 80TB)	Up to 112TB (NVR:32TB + DIGIARRAY Storage Expansion: 80TB)	
Disk Configuration	Linear(JBOD), RAID 0/1/5/6/10		Linear(JBOD), RAID 0/1/5/6/10	
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out			
Network Port[4]	Gigabit x 2			
USB Backup	Yes			
USB Connector	Front:USB2.0x1(For USB Backup) / Rear: USB2.0x4	Front:USB3.0x1(For USB Backup) / Rear: USB2.0x4	Front:USB3.0x1(For USB Backup) / Rear: USB2.0x4	Front:USB2.0x2(One for USB Backup)/Rear: USB2.0x4
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	88.1(H) x 481(W) x 554(D) mm 3.46(H) x 18.9(W) x 21.8(D) inch	44.1(H) x 481(W) x 661.65(D) mm 1.73(H) x 18.9(W) x 26(D) inch	184.94(H) x 205.3(W) x 245.8(D) mm 7.28(H) x 8.08(W) x 9.68(D) inch

Note 1. H/W decode local display max. FPS in single page is based on camera's compression format H.264.
Note 2. Built-in mini-CMS server monitoring is not supported on local display interface.
Note 3. The standard system is shipped without HDD.
Note 4. User is advised to connect cameras and DIGIEVER NVR with gigabit switch.

DIGIEVER NVR Pro+ Comparison

DIGIEVER NVR	DS-8200-SRM Pro+ series	DS-4200-RM Pro+ series
Model Name	DS-8264/8256/8249/8242/8236/8232/8225/ 8220/8216/8212/8209-SRM Pro+	DS-4264/4256/4249/4242/4236/4232/4225/ 4220/4216/4212/4209-RM Pro+
CPU	Intel High Performance CPU	
Supported Channel	Up to 64/56/49/42/36/32/25/20/16/12/9	Up to 64/56/49/42/36/32/25/20/16/12/9
Operation System	Linux-embedded	
Maximum Network Throughput	400Mbps	
Support Local Display	Yes (HDMI/ VGA)	
Max Resolution Support on Local Display	Up to 8 Megapixel(4K UHD)/ channel	
Max. Channel Supported on Local Display	Up to 64 channels/ page	
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)	
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)	
Storage Capacity per HDD	Up to 8TB (2.5"/3.5" HDD)	
Storage Expansion Units (DIGIARRAY)	2 Units	
HDD Tray	16 (NVR:8 + DIGIARRAY Storage Expansion: 8)	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)
Maximum Capacity[3]	Up to 144 TB (NVR:64TB + DIGIARRAY Storage Expansion: 80TB)	Up to 112TB (NVR:32TB + DIGIARRAY Storage Expansion: 80TB)
Disk Configuration	Linear(JBOD), RAID 0/1/5/6/10	Linear(JBOD), RAID 0/1/5/6/10
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out	
Network Port[4]	Gigabit x 2	
USB Backup	Yes	
USB Connector	Front:USB3.0x1(For USB Backup) / Rear: USB2.0x4	
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	44.1(H) x 481(W) x 661.65(D) mm 1.73(H) x 18.9(W) x 26(D) inch

DIGIEVER NVR	DS-4200 Pro+ series	DS-2100 Pro+ series	DS-1100 Pro+ series
Model Name	DS-4264/4256/4249/4242/4236/4232/4225/ 4220/4216/4212/4209/4205 Pro+	DS-2164/2156/2149/2142/2136/2132/2125/ 2120/2116/2112/2109/2105 Pro+	DS-1164/1156/1149/1142/1136/1132/1125/ 1120/1116/1112/1109/1105 Pro+
CPU	Intel High Performance CPU		
Supported Channel	Up to 64/56/49/42/36/32/25/20/16/12/9/5	Up to 64/56/49/42/36/32/25/20/16/12/9/5	Up to 64/56/49/42/36/32/25/20/16/12/9/5
Operation System	Linux-embedded		
Maximum Network Throughput	400Mbps		
Support Local Display	Yes (HDMI/ VGA)	Yes (HDMI/ DVI-I)	
Max Resolution Support on Local Display	Up to 8 Megapixel (4K UHD)/ channel		
Max. Channel Supported on Local Display	Up to 64 channels/ page		
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)		
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)		
Storage Capacity per HDD	Up to 6TB (2.5"/3.5" HDD)		
Storage Expansion Units (DIGIARRAY)	2 Units	1 Unit	
HDD Tray	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)	6 (NVR:2 + DIGIARRAY Storage Expansion: 4)	5 (NVR:1 + DIGIARRAY Storage Expansion: 4)
Maximum Capacity[3]	Up to 112TB (NVR:32TB + DIGIARRAY Storage Expansion: 80TB)	Up to 56TB (NVR:16TB + DIGIARRAY Storage Expansion: 40TB)	Up to 48TB (NVR:8TB + DIGIARRAY Storage Expansion: 40TB)
Disk Configuration	Linear(JBOD), RAID 0/1/5/6/10	Linear(JBOD), RAID 0/1	Single
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out	-	
Network Port[4]	Gigabit x 2	Gigabit x 1	
USB Backup	Yes		
USB Connector	Front:USB2.0x2(One for USB Backup)/Rear: USB2.0x4	Front:USB2.0x2 (One for USB Backup) / Rear: 3.0x2 and USB2.0x2	
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	63.2(H) x 295(W) x 271(D) mm 2.49(H) x 11.61(W) x 10.67(D) inch	58.5(H) x 237(W) x 192(D) mm 2.3(H) x 9.33(W) x 7.56(D) inch

DIGIEVER NVR Lite Series

DIGIEVER NVR	DS-4000 series	DS-2000 series
Model Name	DS-4016/4012/4009/4005	DS-2016/2012/2009/2005
CPU	RISC	RISC
Supported Channel	Up to 16/12/9/5	Up to 16/12/9/5
Operation System	Linux-embedded	
Maximum Network Throughput	150Mbps	
Support Local Display	-	
Max Resolution Support on Local Display	-	
Max. Channel Supported on Local Display	-	
H/W Decode Local Display Max. FPS in Single Page[1]	-	
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)	
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)	
Storage Capacity per HDD	Up to 3TB (2.5"/3.5" HDD)	Up to 5TB (2.5"/3.5" HDD)
Storage Expansion Units (DIGIARRAY)	2 Units	
HDD Tray	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)	10 (NVR:2 + DIGIARRAY Storage Expansion: 8)
Maximum Capacity[3]	Up to 92 TB (NVR:12TB + DIGIARRAY Storage Expansion: 80TB)	Up to 90 TB (NVR:10TB + DIGIARRAY Storage Expansion: 80TB)
Disk Configuration	Linear(JBOD), RAID 0/1/5/6	Linear(JBOD), RAID 0/1
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out	
Network Port[4]	Gigabit x 1	
USB Backup	Yes	
USB Connector	Front: USB 2.0 x 1 (For USB BACKUP) / Rear: USB2.0 x 2	
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	164.94(H) x 114.97(W) x 246.1(D) mm 6.49(H) x 4.53(W) x 9.69(D) inch

DIGIEVER NVR Bundle Series

DIGIEVER NVR	DSB-12300 Pro+ series	DSB-12200 Pro+ series	DSB-8300 Pro+ series	DSB-8200 Pro+ series
Model Name	DSB-12364/12356/12349/12342/12336/12332 Pro+	DSB-12264/12256/12249/12242/12236/12232/12225/12220/12216Pro+	DSB-8364/8356/8349/8342/8336/8332 Pro+	DSB-8264/8256/8249/8242/8236/8232/8225/8220/8216/8212/8209 Pro+
CPU	Intel High Speed CPU	Intel High Performance CPU	Intel High Speed CPU	Intel High Performance CPU
Supported Channel	Up to 64/56/49/42/36/32	Up to 64/56/49/42/36/32/25/20/16	Up to 64/56/49/42/36/32	Up to 64/56/49/42/36/32/25/20/16/12/9
Operation System	Linux-embedded			
Maximum Network Throughput	450Mbps	400Mbps	450Mbps	400Mbps
Support Local Display	Yes (HDMI/ VGA)			
Max Resolution Support on Local Display	Up to 8 Megapixel (4K UHD) /channel			
Max. Channel Supported on Local Display	Up to 64 channels / page			
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS	Resolution up to 8MP(4K UHD)/ 4MP:360FPS/ Full HD:900FPS/ HD:1200FPS/ D1:1600FPS (H.264)	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)			
Built-in mini-CMS Server Monitoring[2]	Yes (Up to 256 channels)			
Storage Capacity per HDD	Up to 8TB			
Storage Expansion Units (DIGIARRAY)	2 Units (Bundle with NVR)			
HDD Tray	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)	12 (NVR:4 + DIGIARRAY Storage Expansion: 8)	8 (NVR:4 + DIGIARRAY Storage Expansion: 4)	8 (NVR:4 + DIGIARRAY Storage Expansion: 4)
Maximum Capacity[3]	Up to 112TB (NVR:32TB + DIGIARRAY Storage Expansion: 80TB)	Up to 112TB (NVR:32TB + DIGIARRAY Storage Expansion: 80TB)	Up to 72TB (NVR:32TB + DIGIARRAY Storage Expansion: 40TB)	Up to 72TB (NVR:32TB + DIGIARRAY Storage Expansion: 40TB)
Disk Configuration	Linear(JBOD), RAID 0/1/5/6/10			
Built-in DI/DO(Digital Input/Digital Output)	4-in, 2-out			
Network Port[4]	Gigabit x 2			
USB Backup	Yes			
USB Connector	Front: USB2.0x2 (One for USB Backup) Rear: USB2.0x4	Front: USB2.0x2 (One for USB Backup) Rear: USB2.0x4	Front: USB2.0x2 (One for USB Backup) Rear: USB2.0x4	Front: USB2.0x2 (One for USB Backup) Rear: USB2.0x4
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	184.94(H) x 205.3(W) x 245.8(D) mm 7.28(H) x 8.08(W) x 9.68(D) inch	184.94(H) x 205.3(W) x 245.8(D) mm 7.28(H) x 8.08(W) x 9.68(D) inch	184.94(H) x 205.3(W) x 245.8(D) mm 7.28(H) x 8.08(W) x 9.68(D) inch

CMS-Client (Central Management Software)

Liveview	
Max. Channels	Manage up to 1,024 channels with multiple DIGIEVER NVRs, and display up to 64-channel liveview* on single liveview page for any important channel
User Privilege Management	Up to 5 privilege levels for different accounts: administrator, power user, user, operator and guest
Multi-account Management	Create account association between CMS and NVRs. One CMS account can directly access NVR servers
Customized Display Mode	1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8, full screen, user-defined
Advanced Image Rotation	Allow users to easily rotate liveview channel to 90°, 180°, or 270° degree
Immervision Panomorph	Select suitable camera position (Ceiling, Ground, Wall) and display Mode (PTZ, Quad, Parameter) for liveview monitoring
Smart Stream Optimization	Automatically adjust streaming quality, according to the different liveview display modes, to perform the best liveview quality
Group Management	Add favorite camera to customized group to display sequentially and to execute group playback
Highlight Video Window	Immediately highlight video channel with red frame to indicate event situation
Event Log History	A detail list of event history to check event information
Event Log Instant Playback	Quickly view event video via clicking play button on event panel
Device Name Search	Quickly find managed NVR and camera by entering keyword
Save/Load Configuration	Export configuration file on PC and load it to other PC to speed up CMS deployment
E-Map	
Multi-layer Dynamic Maps	Build up multi-layered interactive maps to quickly locate trouble zones in a comprehensive overview.
Intuitive E-map Indicator	Change camera icon to desired type and direction
Multiple Image Formats Support	Upload maps in BMP, GIF, JPEG and PNG formats with no limitation of image size
Video Pop-out Window	Instant notification by a pop-out video window, including Camera Motion, Camera Digital Input, and NVR Digital Input event
E-map thumbnail links	Quickly access to other related maps to locate camera detail location from different aspects of maps
Camera Location Search	Direct users to E-map layer and pop out a video to let users check camera current situation by double-clicking the camera on device panel
Playback	
Multi-channel Playback	Maximum 16-channel simultaneous playback
Search Methods	Search by date, time and recording type(normal, event, video clip, recovery, time overlap)
Playback Control	Rewind, slow motion, fast forward and frame by frame playback
Smart Search	Five quick search modes: Motion Detection, Foreign Object Detection, Missing Object Detection, Loss Focus, and Camera Tampering Detection. Double click on smart search result to start playing the video
Dewarping Methods	Support Immervision panomorph and various de-warping methods
Video Export and Snapshot	Export video files and take snapshots to save any videos found in investigation
Video Wall Configuration (with CMS-Matrix)**	
Multi-Monitor Settings	Display monitor identification number on each monitor allowing users to assign suitable layout for diverse surveillance purposes
Flexible User-defined Layout	Create various styles of layout through user-defined layout tool
Sequential Setting	Enable sequential mode to display several layouts
Video Wall Setting Preview	Remotely preview video wall on CMS-Clients to speed up the video wall configuration
Dual-Stream Support	Manually choose stream 1 or stream 2 for each channel to save bandwidth
Restore Point	Restore previous monitor/layout setting when accidentally unplugged monitor's video output

CMS-Matrix (Video Wall Software)

Flexible Monitors Scalability	Depend on display cards installed on PC
Monitor Availability	Execute command from CMS-Client to control the availability of monitors
Monitor Identification	Execute command from CMS-Client to display monitor identification number on screen
Save Current Monitor/Layout Settings	Restore to previous monitor setting when reconnected to a monitor or be restarted
Highlight Video Window	Highlight liveview video window in red frame
Recording Status	Update recording status on video wall

*For more than 64 CH liveview at the same time, it is suggested to use CMS-Matrix as liveview video wall.
**CMS-Matrix is optional.

DIGIEVER Mobile NVR Specifications

DIGIEVER Mobile NVR	MN-2100 Pro+ series	MN-1100 Pro+ series
Model Name	MN-2136/2132/2125/2120/2116/2112/2109/2105 Pro+	MN-1136/1132/1125/1120/1116/1112/1109/1105 Pro+
CPU	Intel High Performance CPU	Intel High Performance CPU
Memory	2GB (up to 8GB)	2GB (up to 8GB)
Supported Channel	Up to 36/32/32/25/20/16/12/9/5	Up to 36/32/32/25/20/16/12/9/5
Operation System	Linux-embedded	Linux-embedded
Maximum Network Throughput	300Mbps	300Mbps
Support Local Display	Yes (HDMI/ VGA)	
Max Resolution Support on Local Display	Up to 8 Megapixel (4K UHD) / channel	
Max Channel Supported on Local Display	Up to 36 channels/ page	
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:120FPS/ Full HD:300FPS/ HD:600FPS/ D1:900FPS (H.264)	
Video Format	H.264, MPEG-4, MJPEG, MxPEG (Depending on camera models)	
Storage Capacity per HDD	Up to 2TB (SSD/ 2.5" HDD)	
HDD Tray	2	1
Maximum Capacity[2]	Up to 4TB	Up to 2TB
Disk Configuration	Linear(JBOD), RAID 0/1	Linear(JBOD)
Built-in DI/DO(Digital Input/Digital Output)	4-in, 4-out	
Network Port[3]	Gigabit x 4	
USB Backup	Yes	
Optional Module	4G/ Wi-Fi/ GPS/ PoE/ Anti-vibration kit for 2.5" HDD/ Adaptor (AC 100V~240V)	
Power Ignition Module	Yes	
USB Connector	Front: USB2.0x4	Front: USB2.0x 4
Operating Temperature	-20 ~70°C / -4 ~158°F	-20 ~70°C / -4 ~158°F
H/W Dimensions	77.3(H) x 273.8(W) x 188(D) mm 3.04(H) x 10.78(W) x 7.4(D) inch	64.8(H) x 273.8(W) x 188(D) mm 2.55(H) x 10.78(W) x 7.4(D) inch

Note 1. H/W decode local display max. FPS in single page is based on camera's compression format H.264.
Note 2. The standard system is shipped without HDD.
Note 3. User is advised to connect cameras and DIGIEVER NVR with gigabit switch.

DIGIARRAY Specifications

DIGIARRAY DA Series	DA-4000E
HDD Tray	4 (Swappable)
Hot Swap	Yes
Storage Capacity per HDD	Up to 10TB
Maximum Capacity	Up to 40TB (2.5"/ 3.5" SATA HDD x 4)
Disk Management	Linear(JBOD), RAID0, RAID1, RAID5, RAID10
RAID Algorithm	Hardware RAID
LED Indicator	eSATA, HDD1, HDD2, HDD3, HDD4
Port	eSATA
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

Decoder Specifications

Video Wall Decoder VD Series	VD-0000 Series
Model Name	VD-0064/0049/0036/0025
Supported Channel Model	Up to 64/49/36/25
Display Modes	1/3/4/5/8/9/10/12/16/20/25/30/36/42/49/56/64 & 5+1/12+1-channel & sequential and full screen
Video output connector	HDMI/ DVI-I
H/W Decode Max Resolution	Resolution up to 8MP (4K Ultra HD) per channel
H/W Decode Local Display Max. FPS in Single Page[1]	Resolution up to 8MP(4K UHD)/ 4MP:200FPS/ Full HD:480FPS/ HD:720FPS/ D1:1000FPS
Video Compression Format	H.264, MPEG4, MJPEG, MxPEG
CPU	Intel High Performance CPU
Directly Connect to Camera	Yes. Support Integrated Cameras, ONVIF and Generic RTSP/ MJPEG
USB Connector	USB Connector : USB3.0 x 2, USB2.0x4 (For keyboard &mouse and USB dongle)
Audio	Yes
LAN Port[2]	Gigabit x1
Remote Controller	Yes (Optional)
H/W Dimensions	237(H) x 58.5(W) x 192(D) mm 9.33(H) x 2.3 (W) x 7.56(D) inch

Note 1. H/W decode local display max. FPS in single page is based on camera's compression format H.264.
Note 2. User is advised to connect cameras and DIGIEVER NVR with gigabit switch.

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

DIGIEVER PoE Switch	SW-2421FM-250	SW-1621FM-250	SW-0821FM-120	SW-2440WS-250	SW-1640WS-250	SW-0820WS-120
Ports						
10/100/1000M RJ45 POE Ports	24	16	8	24	16	8
10/100/1000M RJ45 Uplink Port (Exclusive)	2	2	2	0	0	1
100/1000Base-X SFP Uplink Port	2	2	2	4	4	1
10/100/1000M RJ45 Uplink Port (Inclusive)	0	0	0	4 (Port1-4)	4 (Port1-4)	0
Command Line Port	1	1	1	0	0	0
Performance						
Backplane Capacity	52Gbps	36Gbps	20Gbps	48Gbps	32Gbps	20Gbps
Forwarding Rate	38.68Mpps	26.78Mpps	14.88Mpps	35.71Mpps	23.81Mpps	14.88Mpps
PoE						
IEEE 802.3 af/at Standard Compatible	o	o	o	o	o	o
Number of PoE Port	24	16	8	24	16	8
Max. Power Budget (PoE ports)	250W	250W	120W	250W	250W	120W
Max. PoE Output Power per Port (Adjustable)	30W	30W	30W	30W	30W	30W
Power Device(PD) Auto Detection	o	o	o	o	o	o
Enable/Disable PoE per Port	o	o	o	o	o	o
Overloading Protection	o	o	o	o	o	o
Priority Setting per Port	o	o	o	-	-	-
Power Level Setting per Port	o	o	o	-	-	-
Layer 2+ Features						
Auto-negotiation	o	o	o	o	o	o
Auto MDI/MDIX	o	o	o	o	o	o
Flow Control (802.3x in full-duplex and Back-Pressure in half-duplex)	o	o	o	o	o	o
Spanning Tree	IEEE 802.1D (STP), IEEE 802.1W(RSTP), IEEE802.1S (MSTP)			IEEE 802.1D (STP), IEEE 802.1W (RSTP)		-
Link Aggregation (Static Trunking)	o	o	o	o	o	o
Max. LACP Link Aggregation Group	13	9	5	8	8	8
Max. Port per Link Aggregation Group	8	8	8	8	8	8
IGMP Snooping (IPv4 Multi-cast v1/v2/v3)	o	o	o	o	o	o
IPv6 MLD Snooping (IPv6 Multi-cast v1/v2)	o	o	o	-	-	-
VLAN Group (Port-based)	4095	4095	4095	16	16	16
VLAN Group (Tag-based)	4095	4095	4095	16	16	16
Protocol-based VLAN	o	o	o	-	-	-
Voice VLAN	o	o	o	-	-	-
Multicast VLAN Registration (MVR)	o	o	o	-	-	-
QoS						
CoS (via IP DSCP and IEEE 802.1p)	o	o	o	o	o	o
Number of Priority Queue	9	8	8	-	-	-
Rate Limiting (Ingress, Egress, Per Port)	o	o	o	-	-	-
Priority Queue Scheduling (WRR, DSCP & Class of Service)	o	o	o	-	-	-
Security						
IEEE 802.1x	o	o	o	-	-	-
SSL	o	o	o	-	-	-
SSH	o	o	o	-	-	-
Port Security	o	o	o	-	-	-
IP Source Guard	o	o	o	-	-	-
RADIUS/TACACS+	o	o	o	-	-	-
Storm Control	o	o	o	o	o	o
Loop Detection	o	o	o	o	o	o
Web-based						
Web-based Management	o	o	o	o	o	o
Firmware Upgrade via HTTP	o	o	o	o	o	o
Configuration Download/Upload	o	o	o	o	o	o
Ping	o	o	o	o	o	o
LLDP (Link Layer Discovery Protocol)	o	o	o	o	o	o
Port Mirroring	o	o	o	o	o	o
Dual Firmware Images	o	o	o	-	-	-
NTP	o	o	o	-	-	-
SNMP (v1/v2c/v3)	o	o	o	-	-	-
RMON (Remote Network Monitoring)	o	o	o	-	-	-
DHCP	o	o	o	-	-	-
UPnP	o	o	o	-	-	-
S-Flow (Sampled Flow)	o	o	o	-	-	-
Hardware						
Dimensions (H*W*D)	44 x 440 × 331 mm 1.73 x 17.32 x 13.03 inch	44 x 330 x 210 mm 1.73 x 12.99 x 8.27inch	44 x 440 × 331 mm 1.73 x 17.32 x 13.03 inch			44 × 266× 161 mm 1.73 x 10.47 x 6.33 inch