DIGIEVER

MN-2100 UHD Series

Linux-embedded Industrial-grade Wide-range Temperature
All-in-one Fanless Mobile NVR

Up to **16** CH

-40°C~70°C / -40°F~158°F

Linux | intel inside | NDAA Compliant | TAA COMPLIANT | MADE IN TAIWAN | E13

ONVIF® | G S T | 4K UHD H/W DECODE | 4K UHD DISPLAY | H.265 SUPPORT | DG DECODE

Key Features

◆ 4-Port PoE 802.3af/at & 1G Ethernet Port

◆ 2 x HDMI & 1 x VGA for Local Display (Liveview/Playback/Settings)

◆ 2-bay Storage with JBOD, RAID 0/1

◆ Superb 4K UHD Hardware Decode & Support 4K UHD/Full HD/XGA Display

◆ Time-lapse Recording: Flexible Capture Plans/Multi-Channel Playback/Video Export

◆ 5G/4G/GPS Support (Optional Solution)

-40~70°C Wide Temperature	HDMI/VGA Local Display	SSD 4TB Up to 4 TB	4 PoE Ports	4K UHD H/W DECODE	H.265 /H.264 MJPEG/MxPEG	Remote Backup	USB Backup	PTZ Control	Video Encryption	Water Mark	60FPS Cameras Support	Time-lapse Recording	Quick Configuration
Auto NTP Synchronize	NVR Recovery	Built-in Relay Server	Two-way Audio	Time-divided Search	User Privilege Management	WhiteList BlackList	Failover	E-mail Notification	SMS	Go to Preset Point	External I/O Box	External Event	User-Defined Action

Compatible Network Camera Brands and Partners

AXIS COMMUNICATIONS | ACTi Connecting Vision | afidus | AIPHONE | Air Live | AirLinks 101 | A-MTK | APPRO | Arecont Vision | AVTECH | avigilon | BAISHENG | BASLER | belkin | BGT | BlueEyes | BOSCH | Brickcom

BUFFALO | Canon | Cantonk | carina | certis | centrix | CP PLUS | CNB | D-Link | alhua | DIVIO | DYNACOLOR | ELMO | eoc | ETROVISION | EverFocus | FLIR | FORENIX

Genie | GEN SECURITY | GeoVision | GIGAMEDIA | GRUNDIG | Hertone | Honeywell | Hanwha Techwin America | HDPRO | HI SHARP | HIKVISION | HITACHI Inspire the Next | HTRON SYSTEMS INC. | hiQview | HUNT | HUVIRON | i-PRO | iCANTEK

IDIS | iMega | Infinova | intelbras | IQ inVision | lveda | level one | LG | LILIN | Linear. | LINKSYS | MESSOA | micae | Milesight | MOBOTIX | MITSUBISHI | MIKAMI

NEXCOM | NoVus | ONCAM GRANDEYE | ONLY | optimus | JOVISION | JVC | KAANSKY | PLANET | PROBE | PROMELIT | PROTHRON | QUATRE-PLAN | QIHAN | RISK CAPTUR | SAMSUNG

SANYO | SECUBEST | SecuRex | SHANY | SHARP | SONY | SPRO | SpezVision | Panasonic | Pinetron | PIXORD | TAKEX | TANTOS | TESCOM | TVT | TOSHIBA | topview | TOPICA

TOA | TriClouds | UDP | VIDEOTEC | vidu | viseo | VIVOTEK | WatchNET | KenonVision | SUNELL | Surveon | YOKO | YUDOR | ZAVIO | 3S

Technical Alliance | AXIS ADP Program | intel inside | ONVIF | Seagate | WD | asustor | www.digiever.com

Video
Backup

Playback

Integration

Event
Notification

Monitoring

Management

Smart
Analysis

Recording

Multifunctional All-In-One DIGIEVER NVR

■ Superb 4K Hardware Decode and 4K Local Display
- Support up to 12 MP (4K UHD) IP Camera
- Dewarp Full HD Panomorph IP Cameras
- Liveview Display Modes:
  1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 16 & 5+1/12+1-channel & Sequential and Full screen
- Marvelous PC-less Solution:
  Dual Display, Mirror Display, Target Display, eMap Display
- Liveview Instant Playback
- Two-way Audio via Built-in Line-out
- Moving speed adjustment for ONVIF PTZ camera
- Auto-mute Mode for Idle Cursor

■ Real-time Remote Monitoring
- Liveview Display Modes:
  1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 16, 20, 25, 30, 32, 36, 42, 49, 56, 64, 5+1/12+1-channel & Sequential, Full Screen Mode
- 5+1/12+1-channel Focus Sequential Display Mode for diverse businesses needs
- 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
- Moving speed adjustment for ONVIF PTZ camera
- YouTube/Facebook Live: Live Streaming Broadcast
- Web Liveview: Convenient Liveview Solution for World-wide Viewer without Extra Software Requirement

■ Megapixel Real-time Video Recording
- Up to 8TB Storage Capacity (4TB per HDD)
- S.M.A.R.T HDD Health Monitoring
- Up to 12 Megapixel Recording Resolution
- Support 120 FPS Camera Recording
- Camera Group Recording:
  Assign Video Keeping Days for Each Camera
- Event Smart Recording for Always Recording
- Time-lapse Recording: Flexible Capture Pans (Recording Duration/Capture Interval), Playback with OSD and Video Export
- Schedule Snapshot:
  Automatic Snapshot of All Selected Cameras

■ Powerful Event and Action Management
- Detection of Device Connection Lost, External Events and Camera Motion/IVA
- Notification via Liveview Pop-out Window, Email, SMS, and External Devices
- Configuration-Free Alarm Notification for HDD Error/Failed
- Chain Event to Have Accurate Event Notification
- Intuitive Event & Action Summary

■ Monitor Everywhere via iOS and Android Mobile Device

■ Multi-channel Playback
- Maximum 16-channel Playback Simultaneously
- Remote Multi-NVR Playback & Smart Search
- Event Instant Playback on Liveview and E-Map
- Bookmark: Mark Incident Moment for Quick Tracking
- 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
- Export Video with OSD Displayed
- Seamless Playback of Exported Files without Requiring Video Player Installation

■ Advanced and Reliable Security System
- Stable and Secure Linux-embedded System
- Two User-defined Storage Volume Modes:
  Multi-RAID Storage Volume & Single HDD Storage Volume
- Hot Swappable HDD Design
- 5 Steps Quick Configuration
- White/Black List for IP Range
- Detailed Log Information
- 4 Smart Access Ways:
  Anonymous Access, Reboot Auto Access, Timeout Auto Access, and Active Directory (AD) Access
- Flexible User Privilege Management
- NVR Failover and System Monitoring
- Login Security Lock: Secure and Protect System Security after 5-consecutive Login Errors
- 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
- NVR Edge Backup
- Become NVR Backup Server: Schedule/Manual
- 3 External Devices for Video Backup (Schedule/Manual):
  USB Device, NAS and FTP server
- Intelligent Schedule Backup with Resume Backup Technology and Delay Warning to Secure Backup Efficiency and Completion
- Instant Export while Playback on Remote
- Export Files from Remote and Local Playback
- Event Backup to External FTP: Video Clip & Snapshot

■ Comprehensive Compatible Ability
- Support H.265/H.264/MJPEG/M-PEG4/MxPEG
- Support 150+ Brands and 9000+ IP Cameras
- Support ONVIF Profile G/S/T, Generic RTSP & MJPEG
- Support Uninterruptible Power Supply (UPS)
- 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

Technical Specifications

System

CPU	Intel® High Performance CPU	**Operating System**	Linux-embedded
System Memory	4GB DDR3L memory	**Operating Temperature**	-40°C ~ 70°C/ -40°F ~ 158°F
HDD Tray (15mm height)[1]	Removable HDD tray design 2 x 2.5" SATA III SSD / HDD	**Operating Humidity**	10% ~ 95% RH (Non-Condensing)
Maximum Capacity[1]	Up to 8TB (2 x 4TB SSD)	**Power Consumption**	35W (with 2 SSDs installed, w/o PoE)
Max. Storage Volume	Up to 2 volumes (Global Hot Spare)	**Certification**	CE, FCC, UKCA, E13
Disk Management	Linear (JBOD), RAID 0/1	**H/W Dimensions (without stand)**	66.5 (H) x 260 (W) x 196 (D) mm 2.61 (H) x 10.23 (W) x 7.72 (D) inch
Operation User Interfaces	(1) Local display monitoring/playback/setting (2) Remote Client with login shortcut (3) Web Liveview (4) Mobile App: Android and iOS	**Supported Languages**	Bulgarian, Croatian, Czech, Dansk, Deutsch, Dutch, English, Finnish, French, Indonesian, Italian, Japanese, Korean, Hebrew, Hungarian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish, Traditional Chinese, Simplified Chinese, Vietnamese

Input/Output connector

LAN Port[2]	1 x RJ45 10/100/1000 Mbps 4 x PoE 802.3af/at (max.60W)	**GPIO**	4-in, 4-out (w/isolation), optional: DIO cable
USB Connector	1 x USB 3.2 Gen 1x1 (5V/0.9A) 2 x USB 2.0 (for keyboard, mouse connection)	**GPS Module**	Built-in GPS receiver module on board (GNSS) (with 4G or 5G optional module)
Video Output[5]	2 x HDMI 1.4b, 1 x VGA	**G-sensor**	3-axis, 10-bit resolution (reserved)
Audio Output	2 x line-out (reserved)	**Serial I/O**	Function reserved
Power Input	3-pin Terminal Block for 9V~48V DC	**Power Ignition Module**	Supported
Others	4 x SMA antenna hole (with optional module), 2 x SIM card socket (with optional module), 1 x SD card socket (reserved)		

Optional Module

5G Kit	Mini-PCIe module, external antenna conducting wire and external antenna	**Wi-Fi Kit**	Wi-Fi mini-PCIe module, Wi-Fi external antenna conducting wire and Wi-Fi external antenna
4G Kit	Mini-PCIe module, external antenna conducting wire and external antenna	**GPIO cable**	For DI/DO connector
Power Adapter	Supported for indoor usage (AC100~240V)		

Liveview

H/W Decode Max. Resolution per Channel	Resolution up to 8MP (4K UHD) (H.265 & H.264)
H.265 & H.264 H/W Decode Max. FPS in Single Page	(1) In 3840 x 2160 (4K UHD) display: 30 FPS, Full HD: 60 FPS, HD: 270 FPS, D1: 540 FPS (2) In 1920 x 108 (Full HD) display: 4K (8MP): 60 FPS, Full HD: 240 FPS, HD: 540 FPS, D1: 810 FPS
Two-screen Display	(1) Mirror display: monitor the same cameras at two sites (2) Dual display: monitor more cameras on two monitors (3) Target display: focus on key areas during video playback (4) eMap display: 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, Modbus I/O device event management, switch event map to the top layer
Mini-CMS Server Monitoring[3]	Up to 256 channels from multiple NVR sites
Liveview Optimization	User-defined dual stream auto switch
Web Liveview	Support 1/4/9/12/16-CH, Format: MJPEG + NVR Stream 2

Recording

Max. Recording Performance[4]	150 Mbps	**File format**	AVI, Unique NVR AVI
Video Format[8]	H.265, H.264, MPEG4, MJPEG, MxPEG, Axis Zipstream	**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, Time-lapse recording		

Playback

Multi-channel Playback[5]	Max. 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), TimeLapse, USB device (local)	**Search Modes**	Date, time, channel and recording type
Smart Search[3]	Motion detection, Foreign object detection, Missing object detection, Camera tampering detection, Lose focus	**Playback Control**	Rewind, Slow motion, Fast forward, Backward/Forward playback, Advanced setting for Backward/Forward button, Panomorph[7], Snapshot, ROI, Customized watermark, Bookmark, Data search
Backup Solutions	Export Files on remote and local playback, USB backup (FAT32 & NTFS), Become NVR backup server, Local backup to USB device, Remote backup to NAS and FTP server, NVR edge backup, Instant export while playback videos on remote, Event backup to external FTP		
Backup Methods	(1) Manual (2) Schedule: support automatic, schedule upload timing, resume backup and backup delay warning		
Video Player	(1) Installation-free NVRPlayer with multi-channel playback (default player): unique AVI (2) PC media player, such as Windows Media Player, VLC: common AVI		

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, Loitering detection, Tampering detection, Intrusion detection, Advanced motion detection, Foreign/Missing object detection, Low FPS, Camera digital input (2) <u>NVR Events:</u> NVR connection lost, UPS low power warning, Storage Threshold warning, Abnormal shutdown, Time sync failed, External event (HTTP-in), Built-in Digital Input (3) <u>Storage Event:</u> RAID Degraded/ Rebuilding/ Failed (4) <u>NVR Hardware Events:</u> CPU temperature 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, 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), Built-in Digital output
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, 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**	60~3600 seconds
Advanced Security	Video watermark and password on exported video file, Login security lock (after 5-consecutive login errors for 300 seconds).		

Network Service

Protocol	HTTP, TCP/IP, DHCP, DNS, DDNS, UPnP, FTP, NTP, SMTP, IPv6 (for NVR)	**File Sharing**	Windows networking, FTP service
Two LAN Port Applications	Share IP, Separated IP, Load balance	**Built-in Servers**	Built-in DHCP/NTP server

Remote Web Browser PC Requirements

Operating System	Windows® 10/11	**CPU**	Intel® i7 CPU or above
Browsers in Windows OS	Microsoft® Edge, Chrome, Firefox, Opera	**Memory**	16G or above

Note1 : The standard system is shipped without HDD. For more details about HDD compatibility, please visit DIGIEVER websites.
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 recording performance is varied in different environment.
Note5 : With local display, connection with HDMI 1/HDMI 2 is Screen 1, connection with VGA is Screen 2.
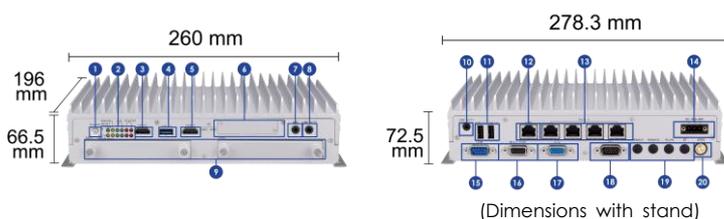Note6 : Camera is needed to support two-way audio/corridor mode and integrated with DIGIEVER NVR. On local site, it is necessary to prepare a USB type external audio sound adapter for connecting speaker/microphone to NVR.
Note7 : DIGIEVER NVR supports dewarping display image of ACTi, AXIS, VIVOTEK, ImmerVision Panomorph and fisheye cameras.
Note8 : DIGIEVER NVR supports H.264, MPEG4, MJPEG, MxPEGI format for local display.

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

Hardware Appearance

260 mm
196 mm
66.5 mm

278.3 mm
72.5 mm
(Dimensions with stand)

1. Power button
2. LED indicators
3. HMDI 2 (HDMI 1.4b)
4. USB 3.2 Gen1x1
5. HDMI 1 (HDMI 1.4b)
6. SD card, SIM1/2 socket (with cover)
7. MIC (reserved)
8. Line out (reserved)
9. 2 x 2.5" removable HDD Tray
10. Line out (reserved)
11. 2 x USB 2.0
12. 1 x Gigabit Ethernet
13. 4 x PoE port
14. Power input (9~48V DC)
15. 1 x COM port (reserved)
16. 1 x Multi-port (reserved)
17. 1 x VGA
18. 1 x Connector for DIO
19. 4 x Antenna port
20. 1 x GNSS