



## Data Centre Solutions

## Network Video Recorder

### Description

This product is a lightweight intelligent network hard disk recorder with high standard video access performance and strong video decoding ability. In addition to conventional functions such as local multi screen real-time preview display, video storage, and video playback, the product also support high-resolution and various forms of front-end camera access. At the same time, it also support various intelligent applications such as facial recognition, perimeter prevention, and intelligent motion detection. The device is stable and reliable, with rich applications, convenient operation, and strong performance, and can be widely used in various scenarios..



### Features

- **Perimeter prevention**  
Support trip wire intrusion; Supporting rules such as regional intrusion, the system can perform secondary recognition of targets, automatically filter false alarms caused by animals, fallen leaves, and strong lights, and improve alarm accuracy.
- **Facial recognition**  
Dahua facial recognition technology extracts feature values from captured faces and compares them with the feature values in the face database.
- **Intelligent dynamic inspection**  
Dahua Intelligent Dynamic Detection Technology uses intelligent algorithms to classify targets in the image, effectively filtering motion detection alarms caused by non focused targets, and achieving accurate and effective alarm events.

### Core Technical Parameters

- Support web and local GUI interface operations
- Support up to 64 channels of network video access, with network performance of 384Mbps access, 384Mbps storage, and 384Mbps forwarding
- Support intelligent 2 channels operation 32M@25 FPS; 2 channels 24M@25 FPS; 4 channels 16 MP@30 FPS; 5 channels 12 MP@30 FPS; 8 channels 8 MP@30 FPS; 12 channels, 5 MP@30 FPS; 16 channels 4 MP@30 FPS; 32 channels 1080p@30 FPS decoding. Or open intelligent 1 channel 32 MP@25 FPS; 24 channels MP@25 FPS; 2 channels 16 MP@30 FPS; 4 channels 12 MP@30 FPS; 6 channels 8 MP@30 FPS; 8 channels 5 MP@30 FPS; 12 channels 4 MP@30 FPS; 24 channels 1080p@30 FPS decoding. Support up to 16 video playback channels
- Support 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF IPC resolution access
- Support pre-intelligent: facial detection comparison, perimeter prevention, video structuring, general behavior analysis, three-dimensional behavior analysis, crowd distribution, number statistics, heat map, license plate recognition, intelligent motion detection
- Support 2 channels intelligent facial detection comparison; Or intelligent perimeter prevention after 4 channels; Or intelligent dynamic inspection after 8 channels
- Support up to 10 facial libraries, with a total of 300000 facial images
- Support 16 built-in SATA interfaces, with a maximum capacity of

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20T per disk. It can be configured as a single disk and supports various data protection modes such as Raid0, Raid1, Raid5, Raid6, Raid10, JBOD, etc

- Support N+M cluster management function. In case of host failure, the backup machine can replace the faulty host to continue recording. After the fault is restored, the backup machine can transmit the stored recording back to the faulty host
- Support the expansion of storage function through iSCSIs, support the docking of IP SAN devices through iSCSIs, and enables storage expansion
- Support electronic pan tilt, extracting multiple areas of interest from the panoramic image into individual detail images. When people or vehicles pass through the area, the corresponding detail images are displayed along with the target tracking
- Support active registration services, front-end cameras can be added to devices through active registration
- Support active client registration function, where devices can be added to the platform through active registration
- Support 16 channel alarm inputs and 8 channel alarm outputs, including 1 channel 12V1A ctrl output
- Support 4 USB interfaces (2 front USB 2.0 interfaces and 2 rear USB 3.0 interfaces)
- Support 2 Gigabit Ethernet ports, support the access of IPC devices with 2 different IP addresses, support setting multiple network ports to the same IP address, and achieves data link redundancy
- Support 2 channel VGA outputs and 2 channel HDMI outputs. Same source mode: VGA1 and VGA2 support up to 1080P display, while HDMI1 and HDMI2 support up to 4K display; Heterogeneous mode: VGA1 and HDMI1 are homologous outputs, VGA2 and HDMI2 are homologous outputs, VGA1 and VGA2 support up to 1080P display, HDMI1 and HDMI2 support up to 4K display
- Can connect third-party cameras and mainstream brand cameras that support ONVIF and RTSP protocols
- Support Smart H.265/H.265/Smart H.264/H.264, support one click addition of IPC and automatic switching to H.265
- Support IPv4, IPv6, HTTP, UPnP, NTP, RTSP, SADP, SNMP, PPPoE, DNS, FTP, ONVIF 22.12 network protocols
- Support Dahua cloud connectivity function, support cloud connectivity APP remote monitoring, preview, playback
- Support storage methods such as hard drives, external USB storage devices, and DVD burning, as well as USB drives, eSATA, and DVD burning backup
- Support slice playback function, dividing the recorded video into several segments for multi-channel simultaneous playback
- Support real-time playback function, playback of specified channel recordings in the preview screen
- Support pull-out hard disk hot-swappable chassis
- Support disk group management function to achieve targeted storage of video recordings
- Support quota management function to allocate different recording days for storage according to channels
- Support voice intercom between the client, WEB, and NVR, as well as

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between NVR and network cameras; Voice intercom between NVR and network camera

- Support the function of continuous transmission after network interruption, which can transmit the recordings from the SD card to the NVR during the period when the front-end camera is disconnected from the network
- Support remote management of IPC function, remote upgrade of front-end IPC, remote modification of IPC coding configuration, and other operations
- Support remote zero channel preview function, which can display multiple connected video images and multiple frames on one video image
- Support corridor mode function, support IPC screen rotation of 90 ° or 270 ° to form 9:16 corridor mode
- Support preview channel drag and save, custom layout (dual, triple, and quad gun access)
- Support the integration of 3+1 panoramic cameras, Hubble, Tianque, Watcher and other multi camera accessories
- Support SmartIPC access, trip line intrusion, area intrusion, scene changes, motion detection, facial detection, item leaving and moving, can provide alarms/linkage/upload, and also support intelligent motion detection, crowd distribution, heat map, person count, license plate detection (support checkpoint ITC, ball machine), and intelligent tracking ball
- Support the integration of thermal imaging cameras. When triggering alarms such as fire detection, cold spot detection, hotspot detection, temperature measurement detection, temperature difference detection, phone detection, smoking detection, smoke detection, etc., it can be linked to record, capture and save images, pop up alarm screens, sound warnings, upload to the center, send emails, trigger alarm outputs, and retrieve alarm images by channel, time, and type
- Support fisheye correction function, and support concatenation correction function for connected fisheye videos in preview and playback modes on both local and web ends
- Support up to 16 channels of precise "summary" analysis

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## Technical Parameter

| Parameter                                                     | Value                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Parameter                                              |                                                                                                                                                                                                                                                                                                                                                                                          |
| Main Processor                                                | Industrial grade micro-controller                                                                                                                                                                                                                                                                                                                                                        |
| Operating System                                              | Embedded Linux operation system                                                                                                                                                                                                                                                                                                                                                          |
| Operation Interface                                           | Web□Local GUI                                                                                                                                                                                                                                                                                                                                                                            |
| Intelligent Applications                                      |                                                                                                                                                                                                                                                                                                                                                                                          |
| Post Intelligent Analysis                                     | Support post intelligent facial detection, facial recognition, perimeter prevention, and SMD                                                                                                                                                                                                                                                                                             |
| Pre-Intelligent Analysis                                      | Support pre intelligent facial detection, portrait detection, facial recognition, perimeter prevention, video structuring (people, vehicles, non motor vehicles), SMD, three-dimensional behavior analysis, crowd distribution, population statistics, license plate recognition, heat maps, vehicle density                                                                             |
| Accurate Retrieval (Summary) Performance                      | Support up to 16 channels, with 1 event per second per channel                                                                                                                                                                                                                                                                                                                           |
| Perimeter Prevention                                          |                                                                                                                                                                                                                                                                                                                                                                                          |
| Perimeter Prevention                                          | Front intelligence: support 2. Rear intelligence: support people and vehicles (does not support attributes), support setting zone intrusion and trip line intrusion rules, with a maximum of 10 rules; Support linked video recording, linked pan tilt, default capture (full view), local and external alarm output, voice, beep, and log recording                                     |
| Intelligent Performance After Perimeter (number of channels)  | 4 channels, drawing 10 regular lines for each channels                                                                                                                                                                                                                                                                                                                                   |
| Intelligent Performance Before Perimeter (number of channels) | 16 channels                                                                                                                                                                                                                                                                                                                                                                              |
| Intelligent Preview (perimeter)                               | 1. Detection rule box: Support configuring rule boxes. 2 Intelligent panel: display object category (person, vehicle), event type, event triggering time, and cutout; Unsupported attribute 3. Statis-tics: separately count the number of people and vehicles; Display up to 50 historical captured im-ages and support 10 second recording before and after associated playback events |
| Intelligent Review (perimeter)                                | 1. Search criteria: Retrieve images by channel, time, event type, and target type. 2 Function: Support the association of retrieval results with 10 second video recordings before and after playback events, and exports Excel, videos, and images (cutout, panorama) 3 Capture library capacity: 300000                                                                                |
| Face Detection                                                |                                                                                                                                                                                                                                                                                                                                                                                          |
| Face Detection                                                | 1. Front intelligence: support 2. Post intelligence: support setting detection areas, support linked recording, capturing (panoramic and facial images), local external alarm output, IPC external alarm output, voice, buzzing, and log recording                                                                                                                                       |
| Facial Attributes                                             | Gender, age group, glasses, facial expressions, masks, beard                                                                                                                                                                                                                                                                                                                             |

|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intelligent Performance After Facial Detection (1080P) (number of channels) | 2 channels, single path can simultaneously detect up to 12 faces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Intelligent Performance Before Face Detection (number of channels)          | 16 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intelligent Preview (face detection)                                        | 1. Support displaying detection boxes 2 Smart panel: display event type, event triggering time, and facial capture 3 Facial count statistics: Count the number of facial images taken within 24 hours, displaying up to 50 historical captured images. Support 10 second video recording before and after related playback events, and support quick addition to the list library. 4. Support panel filtering                                                                                                                                                                                                                                                                 |
| Intelligent Replay (face detection)                                         | 1. Search criteria: Retrieve images through chan-nel, time, and facial attributes. 2 Image search: Retrieve images through facial database/external images, set similarity (50-100%), support second-ary filtering through attributes, group search re-sults by date, sort and view the top 1000 images based on similarity, support uploading 30 images to a single client, and query 8 images at once Function: Support 10 second video recording before and after playback of retrieval results, support quick addition of captured images to the face da-tabase, and support exporting retrieval results to Excel, videos, and images Historical library capacity: 300000 |
| Search For Images With Pictures                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Search Historical Databases With Images                                     | 1. Retrieve images by setting similarity (50-100%) through facial databases/external images, and support secondary filtering through attributes. 2. Support searching results by date grouping, sorting by similarity to view the top 1000 images Support uploading 30 images to a single client and querying 8 images at once Support for 10 second video recording before and after associated playback events, export, and quick addition to the list library                                                                                                                                                                                                              |
| Face Recognition                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Facial Database Management                                                  | 1. Import method: Import single/batch facial images through USB flash drive, PCAPP, and browser, with a modeling speed of 60 images per second. 2 Support copying single/multiple facial images to other facial databases 3 Facial information: name, gender, birthday, province, city, ID type, ID number; Custom 4. Image requirements: JPG format, 4M per image, pixel range 100 * 100~3840 * 2160                                                                                                                                                                                                                                                                         |
| Facial Database Capacity                                                    | A maximum of 20 face libraries with 20000 images. Each facial information includes: name, gender, birthday, region, address, ID type, ID number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| Face Recognition                                                              | 1. Recognition mode: front-end face detection+front-end face comparison; Front end face detection+rear-end face comparison; rear-end face detection+rear-end face comparison 2 Front intel-ligence: Support 3 Post intelligence: support functional configuration: ordinary/stranger style; Support the deployment of multiple facial libraries and setting similarity thresholds sepa-rately; When the similarity reaches/ does not reach the (stranger) threshold, an alarm prompt will be given in the client software; Support linked vid-eo recording, capture (full view), local external alarm output, IPC external alarm output, voice, beep, log recording, preset points, Email |
| Intelligent Performance After Facial Recognition (1080P) (Number Of Channels) | 1. Front end face detection+rear-end face comparison support 16 channels, with 16 faces per second in image streams. 2. rear-end face detection+rear-end face comparison support 2 channels, with 12 faces per second in video streams                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Intelligent Performance Before Facial Recognition (number of channels)        | 16 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Intelligent Preview (facial recognition)                                      | 1. Support displaying detection boxes 2. Intelligent panel: display event type, event triggering time, facial capture, similarity, and list library name 3. Count the number of recognized facial images within 24 hours, display up to 50 historical captured images, support associated playback of 10 second recordings before and after events, and quickly add them to the list library. 4. Support panel filtering                                                                                                                                                                                                                                                                  |
| Intelligent Replay (facial recognition)                                       | 1. Search criteria: Retrieve images through channel, time, facial attributes, similarity, and recognition mode (stranger/normal mode). 2 Function: Support 10 second video recording before and after playback of retrieval results, support quick addition of captured images to facial database, support exporting retrieval results to Excel, videos, and images Historical library capacity: 300000                                                                                                                                                                                                                                                                                   |
| Behavior analysis                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| General Behavior Analysis                                                     | 1. Front intelligence: support 16 channels. 2 Post intelligent: not supported 3 Supported configurations: linked recording, linked pan tilt, default capture (full view), local external alarm output, voice, beep, log recording                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Intelligent Preview (General Behavior Analysis)                               | Overlay regular lines and detection boxes on the channel video screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Intelligent Replay (universal behavior analysis)                              | 1. Search criteria: Retrieve images by channel, type, start time, and end time. 2 Function: Support 10 second video recording before and after playback of retrieval results, and support exporting retrieval results to Excel, videos, and images Historical library capacity: 300000                                                                                                                                                                                                                                                                                                                                                                                                    |
| Intelligent Motion Inspection                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Intelligent Performance After Intelligent Dynamic Inspection                  | 8 channels, capable of triggering motion detection alarms for people and vehicles, effectively filtering out false alarms caused by leaves, rainwater, and brightness changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intelligent Performance Before Intelligent Dynamic Inspection | 16 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Intelligent Preview (intelligent motion detection)            | Only stack detection boxes for people and vehicles on the channel video screen                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Intelligent Review (intelligent motion detection)             | 1. Search criteria: Retrieve dynamic inspection events through channels, types: people and vehicles, start and end times. 2 Function: Support video playback related to motion detection events, support backup of retrieval results Historical library capacity: 100000                                                                                                                                                                                                                                    |
| Structured Video                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Structured Pre Intelligent Performance (number of channels)   | 8 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Human Detection                                               | 1. Front intelligence: support 2. Post intelligence: do not support setting detection area, target size, default linked recording, logging, capture, not configurable                                                                                                                                                                                                                                                                                                                                       |
| Human Body Attributes                                         | Top color, top type, bottom color, bottom type, hat, bag, age, gender, umbrella                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Intelligent Preview (human detection)                         | 1. Detection rule box: support opening and closing. 2 Smart panel: display event type, event triggering time, human body capture, facial capture 3 Statistics: Counts the number of human body images in 24 hours, displaying up to 50 historical captured images. Support double clicking on the associated playback event before and after 10 seconds of recording, exporting, and quickly adding facial images to the list library Panel filtering: support filtering based on panel type and attributes |
| Intelligent Review (human detection)                          | 1. Search criteria: Retrieve images by channel, time, and human body attributes (9). 2 Function: Support quickly adding facial images from the human body panel to the list library, associating search results with 10 second recordings before and after playback events, and supporting export of search results to Excel, videos, and images                                                                                                                                                            |
| Motor Vehicle inspection                                      | 1. Front intelligence: support 2. Post intelligence: does not support setting detection area, target size, default linked recording, logging, capture, not configurable                                                                                                                                                                                                                                                                                                                                     |
| Motor Vehicle attributes                                      | License plate, license plate color, body, model, logo, phone number, seat belt, interior decoration, vehicle location                                                                                                                                                                                                                                                                                                                                                                                       |
| Intelligent Preview (motor vehicle detection)                 | 1. Detection rule box: support opening and closing. 2 Intelligent panel: display event type, event triggering time, vehicle body cutout, license plate cutout 3 Statistics: Count the number of human body images taken within 24 hours, displaying up to 50 historical captured images. Support double clicking on associated playback events and recording 10 seconds before and after, exporting 4 Panel filtering: support filtering based on panel type and attributes                                 |
| Intelligent Review (motor vehicle detection)                  | 1. Search criteria: Retrieve images by channel, time, and motor vehicle attributes (9). 2 Function: Support 10 second video recording before and after playback of retrieval results, exporting Excel, videos, and images (cutout, panorama)                                                                                                                                                                                                                                                                |

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| Non Motor Vehicle Inspection                           | 1. Front intelligence: support 2. Post intelligence: do not support setting detection area, target size, default linked recording, logging, capture, not configurable                                                                                                                                                                                                                                                                                            |
| Non Motor Vehicle Attributes                           | Model, color, number of people, helmet                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Intelligent Preview (non motor vehicle)                | 1. Detection rule box: support opening and closing. 2. Intelligent panel: display event type, event triggering time, and vehicle body cutout 3. Statistics: Counts the number of human body images taken within 24 hours, displaying up to 50 historical captured images. Support double clicking on associated playback events and recording 10 seconds before and after, exporting 4. Panel filtering: support filtering based on panel type and attributes    |
| Intelligent Review (non motor vehicle)                 | 1. Search criteria: Retrieve images by channel, time, and non motor vehicle attributes (4). 2. Function: Support 10 second video recording before and after playback of retrieval results, exporting Excel, videos, and images (cutout, panorama)                                                                                                                                                                                                                |
| Vehicle Identification                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Vehicle Identification                                 | Front intelligence: supported Rear intelligence: not supported                                                                                                                                                                                                                                                                                                                                                                                                   |
| License Plate Comparison                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| License Plate Comparison                               | Support for front intelligent license plate recognition and rear intelligent license plate comparison function configuration: When the detected license plate number is consistent with the license plate library (blacklist/whitelist), the client software will provide an alarm prompt, linked video recording, capture (full view), local external alarm output, IPC external alarm output, access control, voice, beep, log recording, preset points, Email |
| License Plate comparison Performance (number of lanes) | 8 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| License Plate Library Management                       | 1. Import method: Fill in the license plate information by exporting the Excel template, import the license plate, and add it individually. 2. License plate information: country or region, license plate number, name, logo, driver's license, car color, license plate color, mobile phone, email, address                                                                                                                                                    |
| License Plate Storage Capacity                         | 1. 20000 license plate numbers 2. Support whitelist, blacklist                                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio And Video Parameters                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number Of Access Channels                              | 64 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Network Bandwidth                                      | Not turning on intelligence: 384Mbps access, 384Mbps storage, 384Mbps forwarding. Turning on intelligence: 200Mbps access, 200Mbps storage, 200Mbps forwarding                                                                                                                                                                                                                                                                                                   |
| Resolution Ratio                                       | 32MP; 24MP; 16MP; 12MP; 8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 960p; 720p; D1; CIF                                                                                                                                                                                                                                                                                                                                                                                      |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decodability                | No intelligent 2 channels operation 32M@25fps; 2 channels 24M@25fps; 4 channels 16 MP@30fps; 5 channels 12 MP@30fps; 8 channels 8 MP@30fps; 12 channels 5 MP@30fps; 16 channels 4 MP@30fps; 32 channels 1080p@30 FPS decoding. Or open intelligent 1 channel 32 MP@25fps ; 1 channel 24MP@25fps ; 2 channels 16 MP@30fps ; 4 channels 12 MP@30fps ; 6 channels 8 MP@30fps ; 8 channels 5 MP@30fps ; 12 channels 4 MP@30fps ; 24 channel 1080p@30 FPS decoding. |
| Video Output                | 2 channels VGA output, 2 channels HDMI output, including HDMI1 and HDMI2 heterogeneous output, VGA1 and HDMI 1 homologous output, VGA2 and HDMI2 homologous output, supporting 4K display                                                                                                                                                                                                                                                                      |
| Split Screen                | Main screen: 1/4/8/9/16/25/36/64 Auxiliary screen: 1/4/8/9/16                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tripartite Camera Access    | ONVIF, RTSP, Panasonic, Sony, Axis, Arecon, Pelco, Canon, Hanhua, GB/T28181, GB/T35114 Class A                                                                                                                                                                                                                                                                                                                                                                 |
| Compression Standard        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Video Compression Standards | Smart H.265; H.265; Smart H.264; H.264; MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Audio Compression           | PCM/G711A/G711U/G726/AAC                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Internet                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Network Protocol            | HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS, SMTP, UPnP, DDNS, SNMP, alarm center, IP Search (supporting Dahua network cameras, DVR, NVS, etc.), multicast, P2P, active registration, and iSCSI                                                                                                                                                                                                                                                 |
| Mobile Access               | cloud connectivity APP                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Access Standards            | ONVIF 22.12(Profile T; Profile S; Profile G) CGIP SDK GB28181 GB/T35114 class A                                                                                                                                                                                                                                                                                                                                                                                |
| Browser                     | Google, Firefox, Safari, Edge, IE                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Network Mode                | Support network port binding modes such as multiple access mode, load balancing, and fault tolerance                                                                                                                                                                                                                                                                                                                                                           |
| Replay Theater              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Multiplex Playback          | Support up to 16 playback channels                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Recording Method            | Regular recording, dynamic detection recording, intelligent recording, alarm recording                                                                                                                                                                                                                                                                                                                                                                         |
| Backup Method               | Support USB and network backup                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Playback Method             | Instant playback, regular playback, event playback, tag playback, intelligent playback                                                                                                                                                                                                                                                                                                                                                                         |
| Storage                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disk Pack                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RAID                        | RAID0/1/5/6/10                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hard Disk Hot-Swapping      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alarm                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Normal Alarm                | Support motion detection, video occlusion, video loss, PIR alarm, IPC external alarm, scene change                                                                                                                                                                                                                                                                                                                                                             |
| Abnormal Alarm              | Support front-end device disconnection, storage errors, full storage, IP conflicts, MAC conflicts, login locking, network security anomalies, and fan anomalies                                                                                                                                                                                                                                                                                                |

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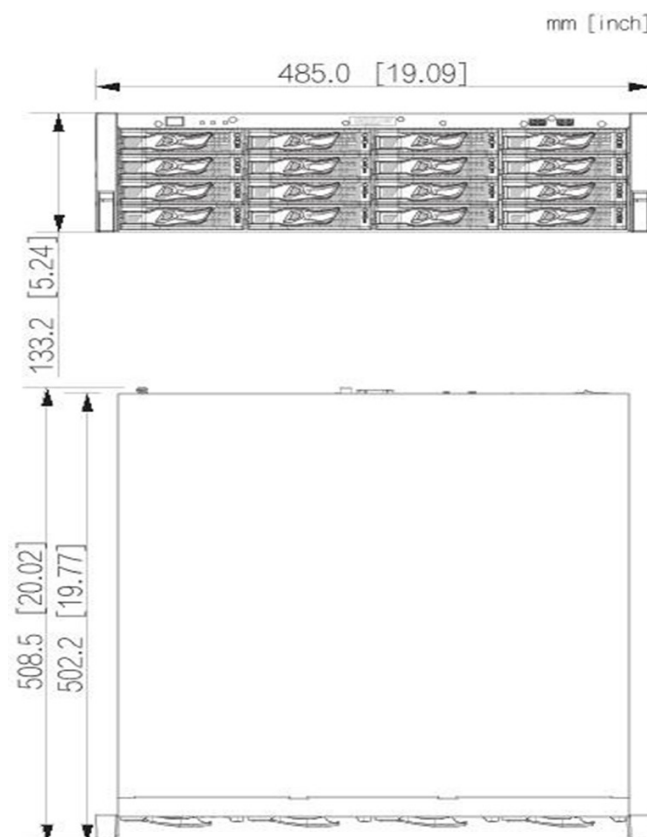
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| Intelligent Alarm     | Support facial detection, portrait detection, facial recognition, perimeter prevention, SMD alarm, video structuring, person count, three-dimensional analysis, crowd distribution, license plate recognition, vehicle density, heat map |
| Alarm Linkage         | Video recording, capture, IPC external alarm output, buzzing, logging, preset points, email                                                                                                                                              |
| External Interface    |                                                                                                                                                                                                                                          |
| Audio Input           | 1 channel, RCA interface                                                                                                                                                                                                                 |
| Audio Output          | 2 channels□RCA interface                                                                                                                                                                                                                 |
| Alarm Input           | 16 channels                                                                                                                                                                                                                              |
| Alarm Output          | 8 channels, including 1 channel with 12VIA ctrl output                                                                                                                                                                                   |
| Hard Disk Interface   | 16 SATA, with a maximum capacity of 20T per disk.                                                                                                                                                                                        |
| eSATA Interface       | 1                                                                                                                                                                                                                                        |
| RS-232 Interface      | 1                                                                                                                                                                                                                                        |
| RS-485 Interface      | 2(1 half duplex serial AB interface, 1 full duplex serial interface)                                                                                                                                                                     |
| USB Interface         | 4(2 front USB 2.0 interfaces, 2 rear USB 3.0 interfaces)                                                                                                                                                                                 |
| HDMI Interface        | 2                                                                                                                                                                                                                                        |
| VGA Interface         | 2                                                                                                                                                                                                                                        |
| Network Interface     | 2(10/100/1000 Mbps Ethernet ports, RJ-45)                                                                                                                                                                                                |
| General Parameters    |                                                                                                                                                                                                                                          |
| Power Supply Mode     | AC100V~240V, 50~60Hz                                                                                                                                                                                                                     |
| Consumption           | <15W (excluding hard drive, unloaded)                                                                                                                                                                                                    |
| Net Weight            | 11.50kg                                                                                                                                                                                                                                  |
| Gross Weight          | 16.40kg                                                                                                                                                                                                                                  |
| Product Size          | 485.0mm × 502.2mm × 133.2mm (Width x depth x height)                                                                                                                                                                                     |
| Package Size          | 619.0mm × 589.0mm × 290.0mm (Width x depth x height)                                                                                                                                                                                     |
| Operation Temperature | -10°C~+55°C                                                                                                                                                                                                                              |
| Storage Temperature   | -20°C~+60°C                                                                                                                                                                                                                              |
| Working Humidity      | 10%~90%                                                                                                                                                                                                                                  |
| Working Altitude      | 3000m                                                                                                                                                                                                                                    |
| Installation Method   | Desktop installation                                                                                                                                                                                                                     |

## External dimensions



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