

# Digital Surveillance System

DSS Pro Video Management System



- Integrates All Management Functions into One Client
- Allows Device Initialization and Management
- Live Video Playback from Edge Device
- Supports Access Control and Video Intercom Integration
- Configure Video Wall Layout and Scheme
- Offers Fisheye Camera Dewarping on Live View
- Offers Facial Recognition and Search on Live View

### **System Overview**

DSS Pro is a comprehensive and expandable Dahua VMS for flexible, scalable, reliable and powerful central management. With client-server architecture, DSS Pro provides central management, information sharing, convenient connections, and multi-service cooperation. The software provides basic functions such as user permission management, device management, alarm management, central storage, video wall and map configuration, access control features (such as personnel management), video intercom, attendance, and access control, and analytic functions such as face recognition, people counting, and object detection. It also integrates add-ons such as business intelligence and traffic. DSS Pro can be applied to many security surveillance solutions.

### **Functions**

### Compatibility

DSS Pro is compatible with all Dahua IP-enabled devices: network cameras, NVRs, DVRs, video intercom devices, and access control devices. The server is also compatible with the ONVIF protocol, so it can connect to ONVIF-enabled third-party devices.

# Fisheye Camera Support

The software features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and offers dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

### Real-time Face Recognition

The Pro performs real-time facial recognition on up to 100 channels simultaneously. The software captures and analyzes facial features to determine gender, age, expression, glasses, moustache, and mask, and then can record the faces and store the associated structured data. The server also filters incoming video to display faces that match target features.

# Access Control and Video Intercom

DSS Pro offers full support and integration for access control and video intercom products to support a complete security and surveillance system. The server monitors door status and events, manages access rights, and support advanced rules management. In addition to access controls, the server supports two-way communication between intercom and control center.

### Video Wall

Offers settings to configure all aspects of a video wall application. The application supports video wall layout, live preview, scheme configuration, and tour setup. In addition, the application supports video wall splicing and roaming.

# Management Operations

The software manages the devices and the user accounts for an entire organization. Operators can assign different camera ranges, active use periods, and business roles for each user. The server also supports different schemes for various events, including IVS, to record and view all event history information.



### **System Features**

### **Business Configuration**

### Device Management

- · Initialize Dahua devices
- Add devices via auto search, IP, IP Segment, Domain, Auto-register (for 3G, 4G, DHCP)
- Manage Dahua devices
- · Add third-party devices via ONVIF
- · Modify Dahua device IP address and password
- · Import Intercom Devices
- · Bind cameras for alarm configuration and POS transactions

### Role and User Management

- · Manage user permissions and roles for devices and control
- Assign user to defined roles
- · Assign appropriate permissions to specific users
- Restrict user access by MAC and expiration dates
- · Set user PTZ permissions
- · Lock users
- · Import domain user and assign roles to the user

#### **Event Management**

- Set alarm type: device, video channel, alarm input, IVS alarm, thermal, vehicle blocklist
- Set alarm scheme: all day, weekday, weekend, or custom template
- Set alarm priority: Low, Medium, High
- Link recordings, snapshots, live video, alarm output, PTZ actions, or e-mail

### Storage

- Set edge storage and central storage
- Extend central storage via iSCSI
- Create recording plan by time template: all day template, weekday template, weekend template, and custom template
- Backup video from edge storage devices (EVS, NVR, DVR, etc.) by schedule
- Backup video from MDVR, NVR, EVS, DVR via Wi-Fi
- Allocate disks and cameras to different groups to main disk quotas

#### Map

- Use Google online or offline maps, or raster maps
- Supports 8-level sub-map
- Configure camera, alarm input, and intelligent channel, and sub-map hot spots.

### Video Wall

- Display/Hide the screen ID
- Supports screen combinations
- Bind the decode channel with the corresponding screen

### Face Database

- Manage face libraries
- Add faces one by one or import faces in batches to the library
- Send face library to a facial recognition device and configure similarities

# Vehicle Blocklist

- Manage vehicle blocklists
- Arm and disarm vehicle blocklists
- Import and export vehicle blocklists

### Video Intercom

- Manage communication between intercom devices via SIP protocol or command center.
- Release text information to VTH, release address book to VTO
- View, delete, and freeze DSS Mobile users

### System Maintenance

### Backup and Restore

- Automatically backup system database (daily, weekly monthly)
- Manually backup system database
- Restore system database from a server or a local file

### System Dashboard

- View overview and detailed system information
- Check CPU, storage, and bandwidth running status
- View device health report for service, device, and user online information
- View event information statistics: total and processed events
- · View video and alarm channel source information

### Logs

- View system, administrator, and client logs
- Search and export logs

### Other Functions

- Supports HTTPS
- Set device time calibration
- $\bullet~$  Set log, alarm information, POS data, and Heat Map storage time

### Service Management

- Delete the sub server
- Enable/Disable the sub server
- Balance server load

### Control Client

#### Live View

- Display device tree; show/hide offline devices.
- Display device IP address or device name on the device tree
- · View real-time video
- Apply a common layout (1, 4,6, 8, 9, 13, 16, 20, 25, 36, 64) or a customized layout
- Control PT7 cameras
- Electric focus
- Set manual recording (PC or central storage)
- Take Snapshots
- Perform instant playback and digital zoom
- Apply Fisheye dewarping
- Control smart tracking for fisheye, speed dome, and panoramic cameras
- Audio talk
- Decode to a video wall
- . Turn on/off the audio in live view
- Set Region of Interest: divide one window into 4 or 6 parts, one shows whole image and others show details
- Display map in Live View and save current split as a view
- Switch to Playback mode
- Supports NKB1000 keyboard to control cameras in the Live View
- Overlay POS transaction data and set POS overlay style
- Adjust the video image and the display mode (full screen or original)

### Plavback

- Playback recording from front-end devices or from central storage
- Apply video filters: normal, motion, alarm, video loss, video tampering
- Sync play
- Reverse playback
- Supports up to 64x fast play and 1/64x slow play
- Playback frame-by-frame
- Lock or mark important recording segments for central storage
- Supports .avi, .dav, .flv, ,mp4, and .asf video output
- Decode to a video wall
- Apply Fisheye dewarping
- · Take a snapshot
- · Switch to the Live View
- Apply a common layout (1, 4,6, 8, 9, 13, 16, 20, 25, 36) or a customized layout
- Adjust the video image and the display mode (full screen or original)

### Event

- View real-time and historical alarm information
- View detailed alarm information (live video, record and pictures from related camera, alarm source location on the map)
- Acknowledge alarms
- Arm control for alarm source
- Forward alarms to relevant users
- Manually send alarm email to a relevant user
  Search by alarm source, alarm time, status, handle user, and priority
- Search alarm events and export the alarm list

### Video Wal

- Manually/Automatically decode real-time video to a video wall
- Manage video wall split
- Change the video channel stream type
- Add box, turn screen on/off, and deliver video stream to control client
- Tour the video channel in one screen
- Set running task on the timeline for schedule plan
- Loop different tasks and set duration time for tour plan
  Supports NKB1000 keyboard to control the video wall.

### . . '

- View live video or playback video on the map
- Calculate area or length of a GIS man
- Calculate area or length of a GIS map
- Supports visible range and initial angle (for PTZ cameras only)
  Displays visible alarm trigger on the map

# People Counting

- Generate daily, weekly, monthly, and yearly reports
- Generate a Heat Map based on the people counting statistics
- Export people counting and Heat Map data

# Face Recognition

- Automatically captures faces in the camera's field of view
- Extracts face attribute information from captured face
- Real-time face comparison
- Registers face to face library
- Search for a face via face attribute, via uploading a face image, via records comparison
- Generate the track for the specific face
- Generate daily, weekly, monthly attribute report based on gender and age

# Other Functions

- Decode GPU
- Connect NKB via USB

### Personnel Management

- · Add, edit, and delete personnel and departments
- · Program card or fingerprint via USB or other readers
- Authorize access by door or by door group
- · Set private passwords and face authentication
- Manage guest, VIP, and employee access

#### Access Control

- · Monitor door status and events
- Set door groups and door levels
- Manage access rights
- Use one key to lock/unlock doors
- Link to fire control system
- Set advanced door rules (passback, first card unlock, for example)

#### Video Intercom

- Manage communication between intercom devices via SIP protocol or command center.
- Release text information to VTH, release address book to VTO

### Attendance

- Set access control devices as attendance stations
- Manage attendance time periods
- · Manage and arrange shift time periods
- Generate attendance reports, including attendance record, abnormality, card-swipe

### Flow Analysis

- Generate daily, weekly, monthly, and yearly people counting reports
- · Generate heatmaps
- Export people counting and heatmap data
- Generate dwell time reports

### **Object Detection**

- Take real-time snapshots and record information about human, motorized, and nonmotorized vehicles.
- Extract attributes from snapshots
- · Search targets in database by criteria searching
- Generate daily, weekly, or monthly attribute reports

### Thermal

- Supports monocular and binocular thermal imaging devices
- Reads temperature values from video frame
- · Acquire timed heatmap
- Supports box selection, circle selection, and linear analysis, temperature curve on heatmap.
- Save, import, and analyze heatmap

### Vehicle Entry

- $\bullet\;$  Edit parking lot information, including total and available spaces and parking lot name
- Manage vehicles, owners, and cards
- Bind LED screen with ITC or spot detector device
- Open barriers via VTO with card or remotely
- Force vehicles to leave parking lot
- · Search historical pass records and export data
- Generate daily, weekly, monthly, and annual vehicle entry statistics

### **Business Intelligence**

- Provide daily, weekly, and monthly reports
- Track customer flow, entrance/exit monitoring
- Create custom demographics based on customer age, gender, attributes

### Traffic

- Search violations by time, license plate number, violation type.
- Supports daily, weekly, monthly, and annual traffic flow statistics
- Query data for vehicle data based on location, time period, license plate number, color, average speed.

### Alarm Controller

- Use custom alarm types and update alarm status
- Globally arm/disarm specific zones or subsystems
- Control zone status
- Cancel alarms

# **System Features**

### Mobile Client

#### History Record

- Show recently viewed channels, open live video or playback via history recordings
- Saves up to 20 history recordings before replacing the oldest recording

#### Live View

- Open more than one channel at the same time, up to 16 channels
- Supports high-definition (HD), standard-definition (SD), and Fluency (FL)stream types
- Supports PTZ control
- Supports horizontal screen play
- · One-key switch to playback
- Take snapshots, record locally, and talk

#### Playback

- Replay device recordings and center recordings (up to 8x and as slow as 1/8x)
- Marks the calendar to indicate whether there is a video on a particular day
- · Supports snapshot
- · Manually record to local device
- Supports 1x, 2x, 3x, 4x, 1/2x, 1/4x, and 1/8x playback speeds

#### Alarm Center

- Subscribe to an alarm
- Process alarms
- View alarm video and picture
- Search alarms

### Мар

- Supports Google Maps
- Displays the video channel on the map
- View video and perform playback

# Other Functions

- View video from a channel and add channel as a favorite
- View picture and video via a local file.

### **Technical Specification** Hardware-Server Windows 10, 64-bit; Windows Server 2008; Operating System Windows Server 2012; Windows Server 2016; Windows Server 2019 Recommended Intel® Xeon® Silver 4114 @ 2.2 GHz 10 Core Processor CPU Minimum E3-1220 v 5 @ 3.00 GHz, 3.00 GHz 4 Core Memory 16 GB Storage 1 TB, 500 GB free for DSS Four (4) 1000 Mbps Ethernet Ports Recommended Network Connection Minimum Two (2) 1000 Mbps Ethernet Ports Hardware- Control Client Windows 7, 32-bit; Windows 7, 64-bit; Windows 10, 64-bit; Windows Server 2008; Windows Operating Windows Server 2012; Windows Server 2016 System Windows Server 2019 Macintosh Mac OS 10.13.4 and higher Recommended Intel® Core™ i5 64-bit 4 Core Processor CPU Intel® Core™ i3 64-bit 4 Core Processor Minimum Recommended 8 GB Memory Minimum 4 GB NVIDIA® GeForce®GT 730 Recommended Graphics Card Minimum Intel® HD Graphics 4400 Recommended 200 GB free space Storage 100 GB free space Minimum **Network Connection** One (1) 1000 Mbps Ethernet Port

# **Total System Management Functions**

	Organization	10 Hierarchies, 999 organizations per hierarchy	
Organization and User	Roles	100 Users	
	Users	200 Online Users 2500 Total Users	
	Video Intercom Mobile App	500 Online Users 5,000 Total Users	
	Total Devices	2000	
	Video <sup>1</sup>	1000 Devices 2000 Channels	
	Auto-Register	500 Devices 2000 Channels	
	ONVIF	200 Devices 800 Channels	
Devices (single point	Face Recognition	100 Channels	
performance)	Object Detection	20 Channels	
	Heatmap	64 Channels	
	People Counting	100 Channels	
	Thermal	20 Channels	
	POS	100 POS Channels (20 POS data per second)	
Access	Access Control	200 Devices 1000 Doors	
Control and Intercom	Video Intercom	1000 Devices (including no more than 64 VTO devices)	
Alarm Controller		50 Devices 500 Channels	
Media	Video Input, per server	600 Mbps	
Transmission Server	Video Output, per sever	600 Mbps	
	Alarm without Pictures	300/s	
	Alarm with Pictures	50/s	
Event	Alarm Controller	50/s	
LVEIIC	Access Control	20/s	
	Face Capture	150/s	
	Object Detection	50/s	
	Hierarchies	Eight (8)	
	Submaps	32 per Hierarchy	
Мар	Spots per Map	300 (GIS and Raster)	
	Raster Map Size	14.7 MB	
Face	Database	50, 300,000 total faces	
Recognition	Import per Time	10,000	
	Persons	50,000	
Personnel	Cards	50,000	
Management	Faces	50,000	
	Fingerprints	80,000	
Total Records		5,000,000 (dependant on disk capacity)	

#### Distributed System - Per Additional Server Management Functions **Total Sub Servers** 20 **Total Devices** 5000 5000 Devices Video1 20,000 Channels 1000 Devices Auto-Register 4000 Channels 500 Devices ONVIF Devices 2000 Channels (single point Face Recognition 500 Channels performance) **Object Detection** 100 Channels Heatmap 320 Channels People Counting 500 Channels Thermal 100 Channels POS 500 POS Channels (100 POS data per second) 600 Devices Access Control 3000 Doors 50 Devices Alarm Controller 500 Channels **Total Events** 600/s Alarm without Pictures 600/s Alarm with Pictures 150/s Event<sup>2</sup> Alarm Controller 50/s 120/s Access Control Face Capture 350/s **Object Detection** 100/s

2.	The sum of events of each type cannot exceed the total number of events. One piece of access
	controller event is equivalent to three general alarms without pictures; one piece of alarm controller
	event is equivalent to a general alarm without picture; one piece of alarm with picture or one object
	detection is equivalent to three face detection events.

# **Cascade System**

# Management Functions

Number of Cascade Levels	3
Number of Cascade Servers	20
Total Devices and Channels	5000 Devices 20,000 Channels
Auto-Register	1000 Devices 4000 Channels
ONVIF	500 Devices 2000 Channels

# Thermal Temperature Monitoring Solution Function

Thermal Cameras Images	Per Server In Total Per Server	400 2000 150 pictures per second
In Total		350 pictures per second
Supported	Functions	Online License Activation Picture Storage/Snapshot Record/Playback Human Body Temperature Alarm Blackbody Error Alarm Retrieve Body Temperature Alarm and Blackbody Alarm from IVSS7008 and NVR5216 Human Body Temperature Preview Preview Daily Human Body Temperature Report Export Report of Total Detection Results Search and Export Human Body Temperature Alarm Report Face Mask Detection

# SafetyTemp Thermal Temperature Station Functions

,		
Per Server		200
Kiosks	In Total	600
Images	Per Server	150 pictures per second
Images In Total		350 pictures per second
Face Capture Access Control		16
Supported Functions		Online License Activation Personnel Management (stores up to two pictures per individual) Access Control Device Authorization Human Body Temperature Preview Real-time Human Body Temperature Display in Live View Search and Export Human Body Temperature Alarm Report Face Mask Detection

# Flow Control Functions

People	Per Server	100
Counting Cameras In Total		500
Supported	Functions	Online License Activation People Flow Control Preview Provide URL for Display Devices People Flow Control Preview Multi-store Management



Ordering Information		
License Name	Description	Number of Channels per License
	Video	64
	LPC	2
B-Base	Face Recognition	2
D-Dase	Access Control	64
	POS	2
	Attendance	4
B-Cascade2	DSS Pro Base Package	2 Subsites
A-Video1	Video License	1
A-Door1	Access Control	1
A-Atten1	Attendance Station	1
A-VDP1	VDP License	1
A-LPR1	LPC License	1
A-FR1	Face Recognition	1
A-POS1	Point of Service	1
A-Cascade1	Cascade	1 Subsite
A-BI Module	Business Analysis Module (Transaction Data, Counting, Retail Traffic)	N/A
A-Traffic Module	Traffic Module (Speeding, Red Light Violation, , Illegal Parking, Illegal Lane Change, Bus Lane Violation, False License Plate, Traffic Flow Statistics and Search	N/A
A-Hot Standby	1+1 Server Backup, use for local backup of servers, 3-year warranty and upgrade support	N/A



Capability Matrix	DSS Pro
Deployment	
os	Windows
Form	Software
International Language	٧
Type of deployment	Distribute Cascade
Internal and external network deployment	٧
Hot standby	٧
Distribute	٧
N+M	×
Cascade As Superior Level	٧
Cascade As Subordinate Level	٧
System	
Web Manager	٧
PC Control Client	٧
MAC Client	٧
DSS Mobile	٧
Licensing	
Licensing	Perpetual
Performance	
Supported Video Channels Per Server	2000
Maximum Video Input Bandwidth Per Server	600Mbps
Maximum Video Output Bandwidth Per Server	600Mbps
Maximum Number of Sub Servers Per Main Server	20
Maximum Write Bandwidth Per Server	600Mbps
Maximum Read Bandwidth Per Server	600Mbps
Maximum Numbers of Online Users	200
Device support	
ONVIF	800chs
Management	
Add devices by P2P server	×
IP Address	٧
IP Section	٧
Domain Name	٧
Auto Register	٧
Automatic Camera Discovery	٧

Automatic Camera Time Synchronization	V
Built-in Backup-Restore Support	V
OfflineLicense Activation	V
Time Zone Configuration for Access Controllers	٧
Device Stream Configuration	٧
UI Switching	V
User authentication and rights management	
Role	٧
User	V
Time schedule controlled user access to devices and functions	V
Restrict user access by limit MAC address	V
Microsoft Active Directory	V
System monitoring	
Real-time and historical system status of management server	V
Real-time and historical status of events	V
Real-time and historical system status of devices	V
Real-time and historical bandwidth	V
Events	
Device status	V
Video detection	٧
Intelligent detection	V
Face recognition arming	V
Vehicle arming	V
Thermal camera temperature measurement	٧
Alarm in	٧
Access control	٧
Alarm manager	
Schedule	٧
Acknowledge	٧
Reassign	٧
Alarm description with work instructions	٧
Number of alarm priority levels	3
Log	√
Pop-up video	٧
Custom the alarm audio	٧
Mail notification Automatically	٧
Mail Manually	V

Linkage action	٧
(Preset, video wall, access control, alarm out, records, snap)	v
Storage	
Schedule	٧
Pre-record	٧
Multi stream	٧
Evidence lock	٧
Records bookmark	٧
Disk group	٧
Disk information display (total, used, remaining)	٧
ISCSI	٧
Records backup from device by time or wifi	٧
Мар	
Raster image	٧
Google online map	٧
Google offline map	V
Hot zone	٧
Visual field	√ (Only for certain PTZ Cameras)
Resource icon flash when alarm	٧
Analytics	
People counting	٧
Heat map	٧
Heat map Face recognition	٧ ٧
·	
Face recognition	٧
Face recognition Face feature search	V V
Face recognition  Face feature search  Search face by image	V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition	V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report	V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture	V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition	V V V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition  Vehicle blocklist arming	V V V V V V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition  Vehicle blocklist arming  Object detection	V V V V V V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition  Vehicle blocklist arming  Object detection  Live view	V V V V V V V V V V V V V V V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition  Vehicle blocklist arming  Object detection  Live view  Custom split	V V V V V V V V V V V V
Face recognition  Face feature search  Search face by image  Generate the track according to the face recognition  Face attribute report  License Plate Capture  Driving track according to License Plate Recognition  Vehicle blocklist arming  Object detection  Live view  Custom split  Multi-screen	V V V V V V V V V V V V V V V V V V V
Face recognition Face feature search Search face by image Generate the track according to the face recognition Face attribute report License Plate Capture Driving track according to License Plate Recognition Vehicle blocklist arming Object detection Live view Custom split Multi-screen ROI (Region Of Interest)	V V V V V V V V V V V V V V V V V V V

Set the widow as alarm attribute  Alarm Output Control  Region Zoom In  Video Tour  Playback  Thumbnail search  Search by record type  Output Playback to Video Wall  Smart Search  Output Playback to Video Wall  Smart Motion Detection (SMD) for human/car  Download  Multi-task download  Wulti-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Video Wall  Video Wall  Video Wall tour  Push the playback video to video wall  Video	CONT. L. C. L.	,
Alarm Output Control Region Zoom In Video Tour Video Mall Video Wall Video Mall Video Ma	GPU decode	٧
Region Zoom In  Video Tour  Video Mart Search  Search by record type  Video Wall  Video Wa		<u> </u>
Video Tour  Playback Thumbnail search  Search by record type  Output Playback to Video Wall  Smart Search  Smart Motion Detection (SMD) for human/car  Download  Multi-task download  Supports AVI, DAV, MP4  Output Playback to Video Wall  V  Supports AVI, DAV, MP4  Output Playback to Video Wall  V  Supports AVI, DAV, MP4  V  Output Playback video to video wall  Video Wall  Video Wall  Video Wall  Video wall tour  V  Push the playback video to video wall  V  Push the playback video to video wall  V  Preset  Preset  V  Preset  V  Preset  V  Preset  V  Witti Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info		٧
Playback Thumbnail search Search by record type Output Playback to Video Wall Smart Search Smart Motion Detection (SMD) for human/car  Download  Multi-task download Supports AVI, DAV, MP4 Download by time, file, bookmark Cut and download the records Video Wall Video wall tour Push the playback video to video wall Display the video in the window Mark important windows on the video wall PTZ Preset Preset VPreset Linkage VMulti Presets Tour Scanning/transition speed Number of PTZ priority levels for prioritized PTZ control Linkage Bullet and PTZ Linkage VA Radio One-way audio - live and recording support VPersonnel Management Batch Import/Export for personnel info V Personnel Management Batch Import/Export for personnel info		٧
Thumbnail search  Search by record type  Output Playback to Video Wall  Smart Search  Smart Motion Detection (SMD) for human/car  Oownload  Multi-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  VTZ  Preset  Preset  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Radar and PTZ Linkage  Audio  One-way audio - live and recording support  Personnel Management  Batch Import/Export for personnel info	Video Tour	٧
Search by record type  Output Playback to Video Wall  Smart Search  Smart Motion Detection (SMD) for human/car  Download  Multi-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  VTZ  Preset  Preset  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Radar and PTZ Linkage  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Playback	
Output Playback to Video Wall  Smart Search  V  Smart Motion Detection (SMD) for human/car  Download  Multi-task download  Supports AVI, DAV, MP4  V  Download by time, file, bookmark  Cut and download the records  Video Wall  Video Wall  Video wall tour  Push the playback video to video wall  Visiplay the video in the window  Mark important windows on the video wall  V  Preset  Preset  V  Preset Linkage  V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Fisheye and PTZ Linkage  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Thumbnail search	٧
Smart Search V Smart Motion Detection (SMD) for human/car V  Download  Multi-task download V Supports AVI, DAV, MP4 V Download by time, file, bookmark V Cut and download the records V Video Wall Video wall tour V Push the playback video to video wall V Display the video in the window V Mark important windows on the video wall V PTZ Preset V Preset Unkage V Multi Presets Tour V Scanning/transition speed V Number of PTZ priority levels for prioritized PTZ control 10 Linkage Bullet and PTZ Linkage V Radar and PTZ Linkage V Radar and PTZ Linkage V Audio One-way audio - live and recording support V Personnel Management Batch Import/Export for personnel info V	Search by record type	٧
Smart Motion Detection (SMD) for human/car  Download  Multi-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  Preset  Preset  V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Radar and PTZ Linkage  Radar and PTZ Linkage  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Output Playback to Video Wall	٧
Download  Multi-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video Wall  Video wall tour  Push the playback video to video wall  Visplay the video in the window  Mark important windows on the video wall  V Preset  Preset  V Preset Linkage  V Multi Presets Tour  Scanning/transition speed  V Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V Radar and PTZ Linkage  V Audio  One-way audio - live and recording support  V Personnel Management  Batch Import/Export for personnel info	Smart Search	٧
Multi-task download  Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  Preset  Preset  V  Preset Linkage  V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Smart Motion Detection (SMD) for human/car	٧
Supports AVI, DAV, MP4  Download by time, file, bookmark  Cut and download the records  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  Preset  Preset  V  Preset Linkage  V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Download	
Download by time, file, bookmark  Cut and download the records  Video Wall  Video Wall  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  Prz  Preset  Preset  V  Preset V  Multi Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Multi-task download	٧
Cut and download the records  Video Wall  Video Wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  PTZ  Preset  Preset  V  Preset V  Multi Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Supports AVI, DAV, MP4	٧
Video Wall tour  Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  PTZ  Preset  Preset	Download by time, file, bookmark	٧
Video wall tour  Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  V  PTZ  Preset  Preset  V  Preset Linkage  V  Multi Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Cut and download the records	٧
Push the playback video to video wall  Display the video in the window  Mark important windows on the video wall  PTZ  Preset  Preset  Preset V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info	Video Wall	
Display the video in the window  Mark important windows on the video wall  PTZ  Preset  Preset  V  Preset Linkage  V  Multi Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  V  Personnel Management  Batch Import/Export for personnel info	Video wall tour	٧
Mark important windows on the video wall  PTZ  Preset  Preset  V  Preset V  Multi Presets Tour  Scanning/transition speed  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  V  Radar and PTZ Linkage  Radar and PTZ Linkage  V  Radar and PTZ Linkage  V  Rador and PTZ Linkage  V  Rador and PTZ Linkage  V  Personnel Management  Batch Import/Export for personnel info	Push the playback video to video wall	٧
Preset V Preset Linkage V Multi Presets Tour V Scanning/transition speed V Number of PTZ priority levels for prioritized PTZ control 10 Linkage U Bullet and PTZ Linkage V Fisheye and PTZ Linkage V Radar and PTZ Linkage V Radar and PTZ Linkage V Audio One-way audio - live and recording support V Two-way audio - live support V Personnel Management Batch Import/Export for personnel info V	Display the video in the window	٧
Preset V Preset Linkage V Multi Presets Tour V Scanning/transition speed V Number of PTZ priority levels for prioritized PTZ control 10 Linkage Bullet and PTZ Linkage V Fisheye and PTZ Linkage V Radar and PTZ Linkage V Radar and PTZ Linkage V Audio One-way audio - live and recording support V Two-way audio - live support V Personnel Management Batch Import/Export for personnel info V	Mark important windows on the video wall	٧
Preset Linkage V  Multi Presets Tour V  Scanning/transition speed V  Number of PTZ priority levels for prioritized PTZ control 10  Linkage U  Bullet and PTZ Linkage V  Fisheye and PTZ Linkage V  Radar and PTZ Linkage V  Radar and PTZ Linkage V  Audio One-way audio - live and recording support V  Two-way audio - live support V  Personnel Management  Batch Import/Export for personnel info V	PTZ	
Multi Presets Tour  Scanning/transition speed  V  Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Fisheye and PTZ Linkage  V  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info	Preset	٧
Scanning/transition speed V Number of PTZ priority levels for prioritized PTZ control 10  Linkage  Bullet and PTZ Linkage V Fisheye and PTZ Linkage V Radar and PTZ Linkage V Radar and PTZ Linkage V Audio One-way audio - live and recording support V Two-way audio - live support V Personnel Management  Batch Import/Export for personnel info V	Preset Linkage	٧
Number of PTZ priority levels for prioritized PTZ control  Linkage  Bullet and PTZ Linkage  Fisheye and PTZ Linkage  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  Two-way audio - live support  Personnel Management  Batch Import/Export for personnel info	Multi Presets Tour	٧
Linkage  Bullet and PTZ Linkage  Fisheye and PTZ Linkage  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info	Scanning/transition speed	٧
Bullet and PTZ Linkage V  Fisheye and PTZ Linkage V  Radar and PTZ Linkage V  Audio  One-way audio - live and recording support V  Two-way audio - live support V  Personnel Management  Batch Import/Export for personnel info V	Number of PTZ priority levels for prioritized PTZ control	10
Fisheye and PTZ Linkage  Radar and PTZ Linkage  V  Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info	Linkage	
Radar and PTZ Linkage  Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info	Bullet and PTZ Linkage	٧
Audio  One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info  V	Fisheye and PTZ Linkage	٧
One-way audio - live and recording support  Two-way audio - live support  V  Personnel Management  Batch Import/Export for personnel info  V	Radar and PTZ Linkage	٧
Two-way audio - live support  Personnel Management  Batch Import/Export for personnel info  V	Audio	
Personnel Management  Batch Import/Export for personnel info  V	One-way audio - live and recording support	٧
Personnel Management  Batch Import/Export for personnel info  V	Two-way audio - live support	٧
	Personnel Management	
Batch Import for authentication method	Batch Import/Export for personnel info	٧
	Batch Import for authentication method	٧

Extract personnel info from A&C device	٧
Persons	30,000
Cards	30,000
Fingerprints	60,000
Face Images	30,000
Access control	
Batch access card	٧
Door group management	٧
Unlock in different time periods	٧
Get record from device	٧
Holiday plan	٧
First card unlock	٧
Multiple card unlock	٧
Inter-lock	٧
Anti-passback	٧
Remote Verification	٧
Remote unlock the door	٧
Fire linkage	٧
Generate the track	٧
Attendance	٧
Video Intercom	
SIP-based two-way video intercom between VDP Devices	٧
SIP-based two-way video intercom between VDP Devices with control center	٧
Send information to the indoor unit	٧
DSS Mobile VDP	٧
Entrance	
Binding ordinary camera	٧
White List	٧
Alarm Controller	
Arm/Disarm	٧
Attendance	
Free Attendance	٧
Fixed Attendance	٧
Holiday Management	٧
Temporary Shift	٧
Attendance Report	٧
Visitor Management	

Visitor Registration	V
Visitor Search	V
POS	
POS OSD	V
POS search and playback the records	V
Add on	
Add-ons	V
Business Intelligence Analysis	V
Traffic	V