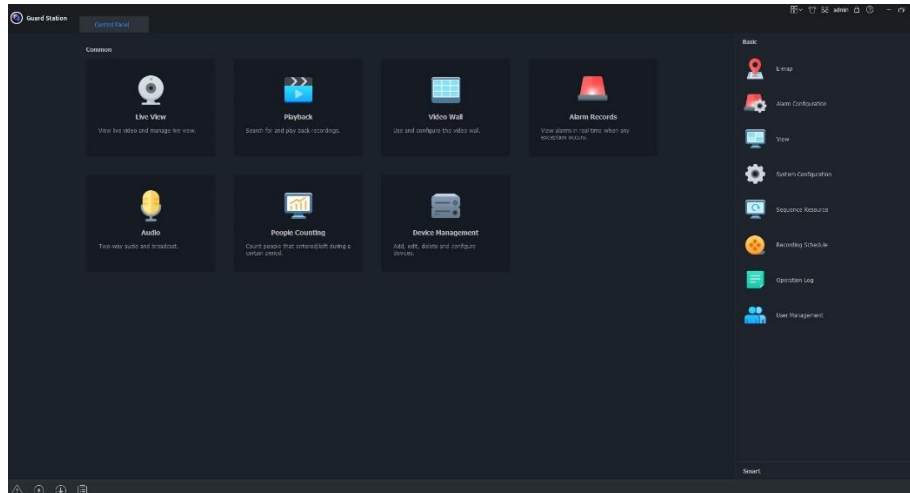


Guard Station Video Management Software



Client VMS

Guard Station

- > Unified management for IP cameras, NVRs, storage servers, network keyboards, etc.
- > Efficient and automatic device search (or search by network segment); add devices by domain name/IP address; add devices and adjust time in batches
- > Up to 64 live view channels (on up to 4 monitors) and sequence display, corridor mode, fisheye Dewarping, two-way audio
- > Playback: time/event retrieval, local/remote, synchronous/asynchronous, smart recording, event and VCA recording, smart search and SD card search
- > Diverse functions: Management of Recording schedules; Camera & two-way audio; PTZ controls; E-Map; Video Wall; Perimeter Protection; Face Recognition; Access Control
- > People counting: people flow counting, crowd density monitoring, export statistics by day / week / month / year
- > Alarm management such as service alarm (event alarm, VCA alarm), device alarm (online / offline, etc.), alarm linkage (live view, etc.), real-time / history
- > Flexible maintenance of functions and friendly user interface for easy operation

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Specifications

Video	
Features	Device discovery (auto discovery, specify network segment); Add devices by IP address/domain name / EZDDNS; Cloud device management (add, edit, delete and share); Group devices, view device status, restart device, sync device time with PC time; Remote configuration (image parameters, encoding parameters, OSD); Fisheye camera supported
Live Monitoring	
Screen Layout	1 / 4 / 5 / 6 / 8 / 9 / 10 / 13 / 16 / 17 / 25 / 32 / 36 / 64 split screen; 1 / 4 / 9 / 16 / 25 default view and custom view; Up to 4 auxiliary screens; Custom layouts
PTZ Control	Pan, tilt, zoom, shortcut PTZ, focus, preset, patrol, 3D positioning, IR control, wiper control, heat control, snow removing, auto guard. Note: Actual functionality may vary depending on device capability
Audio	Camera audio, two-way audio Note: Actual functionality may vary depending on device capability
Features	Group display, sequence display, snapshot, continuous snapshot, digital zoom, scene, instant playback, local recording, default and custom view, custom stream, corridor mode, manual alarm, window maximization, alarm output control
Playback	
Recording	Playback from NVR and SD card; POS recording; 16-ch (Async) / 16-ch (Sync); Display recording status on a calendar; Mp4 format
Features	Local recording, scheduled recording, play back recording by type (normal recording, event recording, VCA recording, smart recording), download recording by file / time, snapshot, digital zoom, -16x~16x speed for forward and backward, audio, instant playback, play back local recordings, smart playback, playback by image, playback by frame, playback in default / custom view
Alarm	
Type	Multiple types
Alarm Linkage	Live view, recording, email, preset, sound, etc.; Trigger other cameras
Alarm Records	Alarm level filter; Real-time alarm info display and acknowledge, and alarm video preview; History alarm display / acknowledge / search
E-Map	
Format	PNG / JPEG / BMP
Map Alarm	Alarm flash, search and acknowledge
Features	Hot spot, hot region, map zoom in / out, map group, eagle eye
Video Wall	
Configuration	Auto-bind decoding channel; Control by power distribution box; Small pixel pitch LED; Local video source
Virtual LED	Multiple virtual LEDs; Edit font, transparency, background color, font spacing, font alignment, scrolling mode, scrolling speed
Window Operation	Open window by one-click or coordinates; Roam, resize, and snap window; Arrange windows by split ID; Lock / unlock window
Video Wall Operation	Play live view / playback, sequence resource on video wall, and alarm to video wall

Specifications Continued

People Counting	
Real Time Statistics	Form a counting area with multi-cameras to count people coming in / out / remaining, and monitor crowd density in real time. Note: People counting camera must be connected to Guard Station via an NVR
Report Statistics	People flow counting in a specific area; Statistics by minute / hour / day / month, statistics of the day, last 7 or 30 days; Display statistics in a bar chart, line chart or table, show statistics at a specified time point; Export data to a CSV file
Perimeter Protection	
Real Time Monitoring	View live videos (up to 4 cameras), and view alarm records in real time
Function & Features	Play and download 10s VCA alarm recording saved on NVR (5s before and 5s after a VCA alarm); View and download VCA alarm images saved on NVR; Export search results Note: Currently only supports cross line detection, intrusion detection, enter area detection, and leave area detection.
Face Recognition	
Configuration	Change temperature unit, configure mask detection alarm and abnormal body temperature alarm; (1) Convert between Celsius and Fahrenheit; (2) Alarm parameters: enable mask detection alarm, body temperature alarm, abnormal temperature threshold, alarm sound, alarm-triggered pop-up window, alarm-triggered email; Configure face attribute display information, including face match/not match/snapshot display information
Real Time Monitoring	View live images from up to 4 cameras, view snapshots and real-time face recognition alarms; Detect abnormal body temperature and mask status Note: Alarms will be reported only if the corresponding monitoring task has been configured
Face Library Management	Add, delete face library, edit face library name; Add face data in batches, edit, delete, import and export face data; Filter face data by name, ID number and gender
Monitoring Tasks	Monitor using a face library and report alarms; Set task name, alarm type (match alarm, not match alarm, all), choose face library to be used for a monitoring task, and set alarm threshold
Alarm Records	Search face match/not match alarm records from NVR; Search alarm records of a device with criteria such as monitoring type, alarm time, name, ID number, and similarity; Quick adding of strangers to face library, view original snapshot; Export search records
Pass-Thru Records	Search pass-through records from NVR; Search pass-through records of a device by alarm time; Quick adding of strangers to face library, view original snapshot; Export search records
Search by Image	Search pass-through records by a face image for similar faces; Search images with criteria such as face image, time and similarity; Search by a library image or local image; Search the alarm video before and after the alarm event

Specifications Continued

Access Control	
Configuration	Add access control devices (filter, time sync, open Web page); Change temperature unit, configure mask detection alarm and abnormal body temperature alarm; (1) Convert between Celsius and Fahrenheit; (2) Alarm parameters: enable mask detection alarm, body temperature alarm, abnormal temperature threshold, alarm sound, alarm-triggered pop-up window, alarm-triggered email
Person Management	Add, delete face library, edit face library name; Batch add faces to face library, delete and edit personal information, import/export, template download; Search personal information by name and ID number
Real Time Monitoring	Live view (up to 4 cameras), remote door opening, real-time pass-through records
Entry / Exit Records	Search entry/exit records of a device with criteria such as time, wearing or not wearing mask, body temperature range, name, IC card number; Quick adding of strangers to face library, view original face snapshot image; Export search records
User Management	
Users Management	Add, edit and delete user, search user
User Level	Super administrator, administrator, operator
User Information	User name, password, user level, permissions; Different default permissions for different user levels; Assignable permission(s) of each user
Operation Logs	
Log Search	Search logs using criteria, view details, export user operation records; Log records include usernames, operation details, and results
System Configuration	
Audio & Video	Configure video play mode, stream type, processing mode, stream transmission protocol; Play main stream in maximized live view window; Enable shortcut PTZ control, VCA rule, and GPU mode; Configure snapshot mode, continuous snapshot interval, number of continuous snapshots, snapshot format, image save path; Configure format and save path for local and downloaded recordings; Configure storage policy, recording space, and recording file size; POS display position, font size, font color, and duration
System	Enable auto login to Guard Station / Windows; Set retention period for operation/alarm log; Import and export configuration
Operation	Set alarm duration, alarm recording start and end time; Enable auto time sync, set synchronization interval; Configure SMTP server and email address used to send/receive emails; Epidemic control: configure temperature unit, mask detection, body temperature measurement, abnormal body temperature threshold and others; Configure face attribute display information, including face match/not match/snapshot display information
System Requirements	
Windows 64-bit	Operating System: Microsoft Windows 8 / Windows 10 / Windows 11 (64-bit); CPU: Intel Core i5 3.1 GHz or higher; Memory: 4GB or higher
Windows 32-bit	Operating System: Microsoft Windows 8 / Windows 10 (32-bit or 64-bit); CPU: Intel Pentium IV 3.0 GHz or higher (4Cores, 3.0 GHz recommended); Memory: 4GB or higher
Mac	Operating System: Mac OS 10.11 or higher; CPU: Intel Core i5 3.1 GHz or higher; Memory: 4GB or higher

System Reference Configuration Chart

Bitrate	Max. number of decoding channels					
	CPU: i5-7500@3.40GHz RAM: 8G NVIDIA GeForce GT 1030 WIN10 Professional 64bit SGRAM: 2G	CPU: i5-12400@2.5GHz RAM: 4G Intel(R) UHD Graphics 730 WIN11 Family, 64bit SGRAM: 4G	CPU: i7-6700@3.40GHz RAM: 4G Intel(R) HD Graphics 530 WIN10 Professional 64bit SGRAM: /	CPU: i7-6700@3.40GHz RAM: 8G Intel(R) HD Graphics 530 WIN10 Professional 64bit SGRAM: /	CPU: i7-6700@3.40GHz RAM: 16G Intel(R) HD Graphics 530 WIN11 Professional 64bit SGRAM: /	CPU: i7-8700@3.20GHz RAM: 16G NVIDIA GeForce RTX 2070 WIN11 Professional, 64bit SGRAM: 8G
Standard H.264 (GPU enabled)						
8MP *8Mbps *20fps	2	2	8	10	14	10
4MP *6Mbps *25fps	3	4	15	19	23	19
1080P *4Mbps *25fps	6	7	23	29	41	33
720P *2Mbps *25fps	12	18	38	42	64	55
D1 *1Mbps *25fps	24	20	64	64	64	64
Standard H.264						
8MP *8Mbps *20fps	5	8	3	4	7	11
4MP *6Mbps *25fps	8	15	6	8	10	13
1080P *4Mbps *25fps	17	31	14	18	31	34

720P *2Mbps *25fps	31	43	28	30	58	55
D1 *1Mbps *25fps	56	64	54	58	64	64
Standard H.265 (GPU enabled)						
8MP *4Mbps *20fps	2	2	8	10	15	17
4MP *3Mbps *25fps	3	4	15	17	25	31
1080P *2Mbps *25fps	6	7	23	28	45	44
720P *1Mbps *25fps	12	17	38	44	64	56
D1 *512kbps *25fps	24	20	60	64	64	64
Standard H.265						
8MP *4Mbps *20fps	3	6	2	2	5	8
4MP *3Mbps *25fps	6	12	4	5	8	13
1080P *2Mbps *25fps	12	24	8	11	23	23
720P *1Mbps *25fps	28	39	21	25	55	55
D1 *512kbps *25fps	45	64	40	48	64	64

Remarks:

- The above data are for reference only.
- Higher PC configurations brings higher decoding performance. The influencing factors mainly include: Graphics Card, RAM, CPU.
- The bit rates and frame rates for the resolutions are defaults. Please be aware, the default frame rate is 20fps for 8MP resolutions, and 25fps for other resolutions.
- With the same compression mode and resolution, Operating system hardly affects decoding performance.
- In the same compression mode, enabling or disabling U-Code (Basic or Advanced) hardly affects decoding performance; for example, no obvious difference in decoding performance is found between Standard H.264 and H.264+U-Code.
- Currently Guard Station limits the max number of decoding channels to 64.
- Supported NVIDIA models: GeForce GT 1030 to GeForce RTX 2070
- It is meaningless to compare the performance between graphics of different manufacturers because the underlying architectures are different. It only makes sense to compare graphics of the same manufacturer.