Easy7 Smart Client Express

Statement

- Our company will update this manual according to the reinforcement and change of product functions, also regularly improve and update the software and hardware products described in this manual. The updated information will be reflected in the latest version of the manual without further notice.
- The change of product parameters will not be further notified as our company continues to adopt new technologies.
- This manual is only for clients' reference and guidance and cannot be ensured to the exactly the same as real products, real products shall prevail in terms of practical application.
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1. Preface

1.1. Preparation purpose

This user manual is prepared based on Easy7 video monitoring system. In order to provide brief function instruction of the system and help users to systematically understand operation process, this user manual is prepared for reference.

[Note] Product real-time update will not be further notified.

1.2. Terms and abbreviations

N/A

1.3. Usage Attentions

- 1. Current monthly largest quantity of human face pictures received from single channel is 1 million. The current upper limit of quantity of human face pictures received from all channels is 5 million. If the quantity exceeds the upper limit, result of intelligent retrieval cannot be acquired.
- 2. Standalone version can support 500 point locations at most at present.
 - 3. Present screen supporting 3,840*2,160 (4K) resolution at most.
- 4. This platform is not compatible with cameras in sky-eye series cameras at present.
 - 5. MAC AlO only supports external microphones.
- 6. As for the equipment added in P2P account number way, audio sampling frequency shall be set to be 8kHz. Other sampling frequency may cause program failure on standalone version, so please use it cautiously.
- 7. As for the same NVR and IPC, video playback and video download exist at the same time. 5 channels at most are supported at present.

Otherwise, download failure or equipment overload will be reminder in download process and video playback will fail.

- 8. MAC system authorizes standalone version, such as microphone authority. Restart the standalone version.
- 9. As for MAC version, the real-time preview in full screen cannot quit from full screen by pressing ESC (unless equipment list is closed).
- 10. Firewall of computer may influence some normal functions of standalone version. Please add white list or close firewall.

2. Software overview

2.1. Software usage

Easy7 Smart Client Express is an application based on MacOS and Windows operation system, which is specially used for managing, previewing and operating network monitoring equipment, suitable for all series of Tiandy NVR, IPC and other devices. The software can realize grouping management of watch points according to different scenarios and customize the group name. It can carry out real-time video browsing, audio preview, voice intercom and other operations based on the device. It can control the equipment PTZ, set preset position and call. It can switch video playback between user-defined groups, support front-end and local video playback, control playback through time axis, and download video files to the client-side. The rich video monitoring business functions of the software are really suitable for the application of various video monitoring scenarios.

2.2. Software operation

Easy7 Smart Client Express can install and operate individually and support Tiandy full series of hard disk video equipment and network video equipment.

2.3. System configuration

CPU: Intel(R) Core(TM) i5, the 8th generation is recommended

Memory: 8G recommended

System: Support Windows 7 64-bit and Windows10 64-bit system

3. Software installation and uninstallation

3.1 Software installation

3.1.1. Windows

Take the installation of "Easy7 Smart Client Express Win64 V8.8.0. exe" in Windows 10 64-bit system as an example, the installation of other versions is the same.

1) Find the installation file "Easy7 Smart Client Express Win64 V8.8.0. exe" in installation disk, as shown in the figure below:

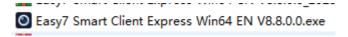


Figure 3.1.1.1

2) Double click and enter installation program, as shown in the figure below:



Figure 3.1.1.2

3) Select installation language, we take English as an example here, select "English", click "Next". It will be installed on Disk C as shown in the figure below:



Figure 3.1.1.3

4) If it's necessary to change installation directory, click "Browse" to select customized installation directory, as shown in the figure below:



Figure 3.1.1.4

5) Set installation directory, click "Install" to start installation program, as shown in the figure below:



Figure 3.1.1.5

6) After installation, click "Finish" to complete installation, as shown in the figure below:

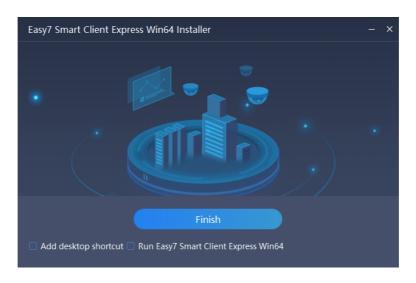


Figure 3.1.1.6

3.1.2. Mac

Take the installation of "Easy7 Smart Client Express Mac64 v8.6.dmg" in MacOS10.14.4 version as an example, the installation of other versions is the same.

1) Find the installation file "Easy7 Smart Client Express Mac64 v8.6.dmg" in installation disk, as shown in the figure below:



Figure 3.1.2.1

2) Double click and enter installation program, as shown in the figure below:

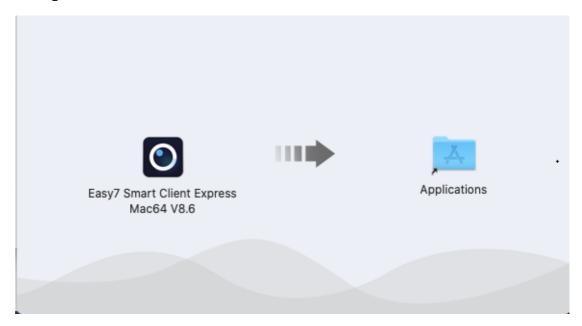


Figure 3.1.2.2

3) The software can be checked in Application after installation, as shown in below figure:



Figure 3.1.2.3

3.2 Upgrade package installation

Temporarily not available.

3.3 Software uninstallation

3. 3. 1. Windows

Take the uninstallation of "Easy7 Smart Client Express " in Windows

10 64-bit system as an example, the uninstallation of other versions is the same.

1) Select "Start"->"All program"->"Tiandy"->"Easy7 Smart
Client Express"->"Uninstall", as shown in below figure:

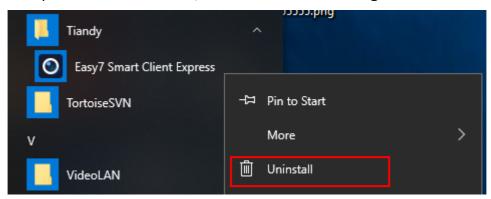


Figure 3.3.1.1

2) Click "Uninstall", enter control panel, select "Program and feature" -> "Uninstall or change program", then select "Easy7 Smart Client Express", right key to select "Uninstall" or double click, there will display a pop-up for deletion, as shown in below figure:

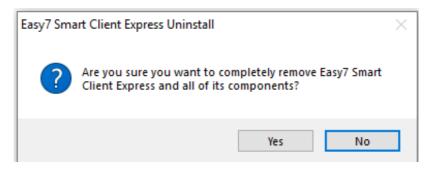


Figure 3.3.1.2

3) Click "Yes", to uninstall the program will terminate all operating Easy7 related programs and continue uninstallation progress, as shown in the figure below:

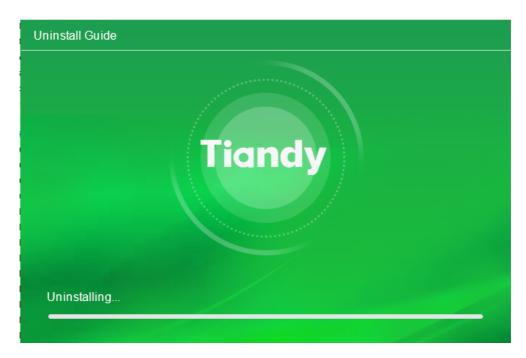


Figure 3.3.1.3

4) After uninstallation, there will display a pop-up for uninstallation completion, click "Confirm" and the program is completely removed, as shown in the figure below:

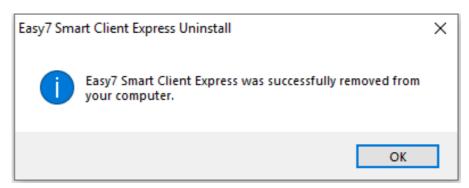


Figure 3.3.1.4

3.3.2. Mac

- 1) Take the uninstallation of "Easy7 Smart Client Express Mac64 v8.6" in MacOS10.14.4 version as an example, the uninstallation of other versions is the same.
- 2) Select Finder -> Applications -> Easy7 Smart Client Express
 Mac64 v8.6, right click to move it to Trash to complete

uninstallation, as shown in below figure:

4. Software login and framework setting

4.1. Software login

Double click the application icon on the desktop to enter system login interface, an initial password is required to be set for the first-time log in, as shown in below figure:



Figure 4.1.1

Note: the password shall be a combination of digits and letters. (Password can be 6-32 characters)

After the initial password is set, enter the password protection setting page, as shown in following figure:

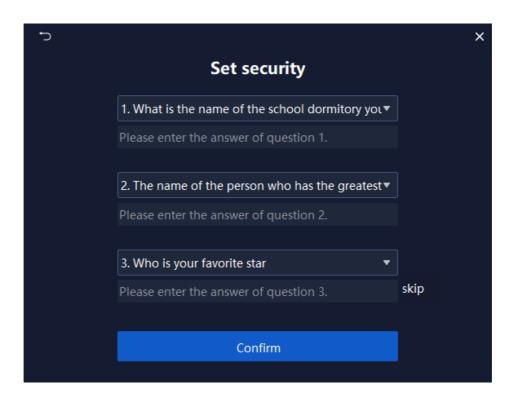


Figure 4.1.2

Click to skip or set the password protection question to enter the login page. After setting the password for the first time, the password will be remembered automatically. Users can log in directly with the setting user, as shown in following figure:

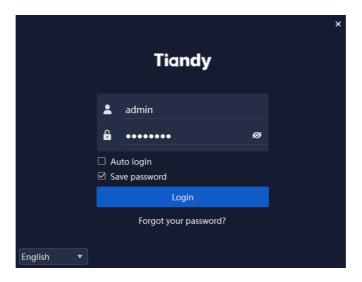


Figure 4.1.3

The information of related parameters in log-in interface is as follows:

Parameter	Description
Auto login	Tick and enable the check box. If the user name and
	password is correct, there's no need to input user
	name and password anymore the next time, you may
	enter automatically.
	Cancel automatic login: System configuration ->
	Common Settings->Login Settings->Automatic Login
	Software.
Save	Tick and enable the check box. If the user name and
password	password is correct, the current password will be
	saved and it will automatically fill in the password
	for the next time.
Login	Click and enable it. If the user name and password
	is correct, you may log in the program.
Forget the	Click enable and click to enter the password
password	verification page. After the password security
	question is successfully verified, you can re-enter
	the initial password setting page to set the
	password.
English ▼ 简体中文 English русский 한국머 ไทย Tiếng việt Le français lingua italiana عربی	Support shifting between multiple languages.
×	Click and enable it. Click to close Easy7 login interface.
Server	Stand-alone enabling. Enter database service port

settings	No. interface through single click. Range of port
	No.: 1-65531. It will take effect after restarting
	the platform.

Table 4.1.1

4.2. Framework setting

Enter the correct user name and password on the platform registration login page, click "Login", and log in for the first time to enter the device management interface, otherwise enter the Easy7 main program interface. The default grouping is shown in below figure:

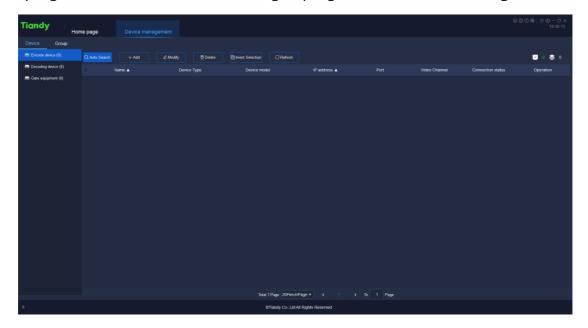




Figure 4.2.1

After entering the interface, click "O" on the right upper corner of the interface to display version information and date, as shown in below figure:

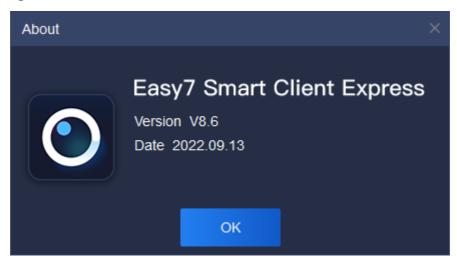
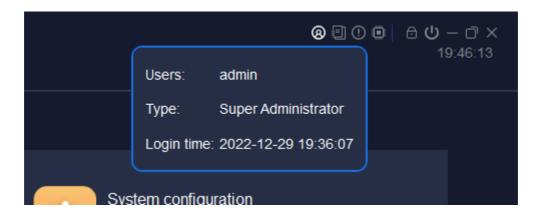


Figure 4.2.2

The login user information will be displayed when the mouse slides over the " \otimes " button at the upper right corner of the interface, as shown in below figure:



The mouse slides over "•" on the right upper corner of the interface to display the current CPU occupancy and memory usage, as shown in below figure:



Figure 4.2.3

When connecting video, if CPU utilized rate exceeds 75%, it cannot connect to real-time video. As shown in following figure:

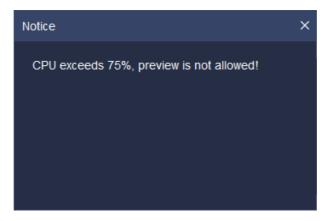


Figure 4.2.4

Click " on the right corner of the interface to lock the interface. When correct delock password (i.e. login password) is input, the screen will be delocked, as shown in below figure:



Figure 4.2.5

Only accounts with "system lock-in authority" and "system unlocking authority" are able to carry out delock operation.

Click "O" cancellation button at the right upper angle of interface and a cancellation prompt box will pop out, as shown in the figure below. Click "OK" to exit from the present platform and return to login interface. Click "Cancel" or "X" at the right upper angle of prompt box to exit the current prompt box.

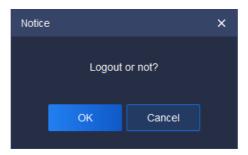


Figure 4.2.6

Click "—" on the right corner of the interface to minimize the program; click " \Box / \Box " on the right corner of interface to restore/maximize the program; click " \times " on the right corner of interface to quit the program.

In order ensure that users may not close the program by mistake in using process, when "X" is clicked to quick the program, a notice will pop up to confirm whether to quit the program, as shown in below figure:

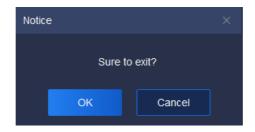


Figure 4.2.7

If " \times " is clicked by mistake, click "Cancel" to return to previous operation interface; if you are sure to quit the system, click "0K" to quit.

The right upper corner of the interface will display current system time "13:54:38" to facilitate user to check time at any time.

The navigation menu bar on the top of the interface can be separated from the main interface by dragging the menu, or the position can be exchanged by dragging.

Interface function items are divided into: common functions and basic functions. The module icons in basic and common function area can be dragged separately, and the user can choose the common function for convenience, as shown in below figure:

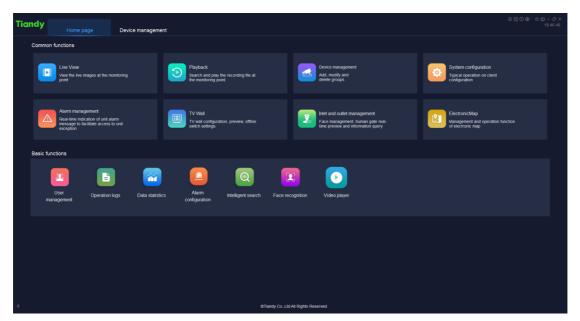


Figure 4.2.8

Real-time preview: View the live images at the monitoring point.

Video playback: Search and play the recording file at the monitoring point.

Equipment management: General management of monitoring devices to facilitate addition.

System configuration: Typical operation on client configuration.

Alarm management: Real-time indication of unit alarm message to facilitate access to unit exception.

TV Wall: TV Wall configuration, preview, offline switch settings.

Inlet and outlet management: Face management, human gate realtime preview and information query.

ElectronicMap: Management and operation function of electronic map.

Face recognition: Management and distribution of face database.

User management: User password change allowed.

Operation logs: Check the system operations logs to understand the system operation.

Intelligent search: Intelligent analysis information from search, such as face retrieval, indoor electric vehicle testing and so on.

Data statistics: Total amount.

Alarm configuration: Coordinated configuration of various alarms.

Video player: Local playback video playback, supporting mp4, sdv and avi format video playback

[Note] After each login, the module icon will return to the default position, and the navigation menu bar position will be saved as the position when you quit last time.

Click " on the left lower corner of the interface to display real-time alarm information, as shown in below figure:

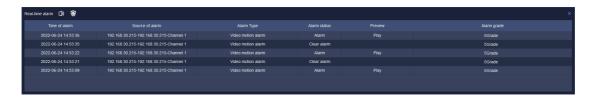


Figure 4.2.9

"Real-time alarm" records time, source, type, status, grade and other information of the alarm. When alarm information occurs, click "Play" to check alarm video playback, as shown in below figure:

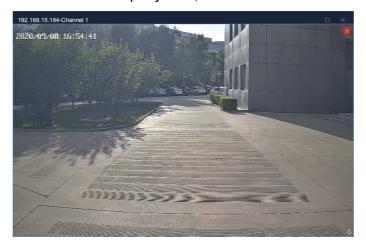


Figure 4.2.10

Click "" to enter defense deployment/withdrawal management interface", where all hosts can be controlled. The defense deployment/withdrawal status of channel and alarm is shown in the figure below:

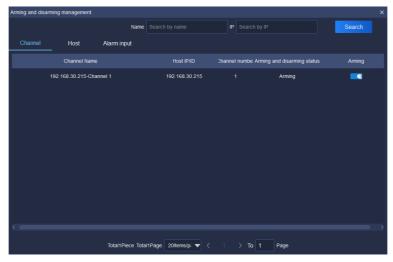


Figure 4.2.11

5. Function operation instruction

5.1. Equipment management

Click the equipment management icon on home page to enter the equipment management interface.

5.1.1. Encode device management

Click "Device" to enter the device management interface. The device interface displays name, device type, IP address, port, video channel, connection status and other basic information of all added device, in which if the connection status is green, it means the device is online, and if it is red, it means the device is offline; addition, modification, deletion and other operation of the device can be conducted. As shown in below figure:

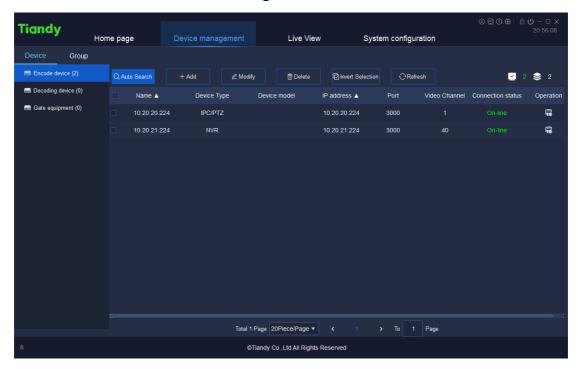


Figure 5.1.1.1

The information of related parameters in the interface is as follows:

Parameter	Description
Auto Search	Automatically search for devices under the same
	network segment, batch addition supported.
Add	Manually add encode device, support IP method,
	Standard domain name method, EasyDDNS method ,
	P2P direct connection method, P2P account number
	method to add device.
Modify	Modify information of already added device.
Delete	Delete already added device, batch deletion of
	device supported.
Output	Select the device, and output the device
	information in three forms of Equipment List,
	Organization Chart, and Organization
	Relationship Table.
Import	Click the device, and input the information in
	Equipment List, Organization Chart, and
	Organization Relationship Table, which are
	contained in the file.
Invert Selection	Select all device that are not selected at that
	moment.
Refresh	Update the status of device at current interface.
Name	Display the name of all already added device.
Device Type	Display the device type of all already added
	device, TD series (Tiandy series) supported.
IP Address	Display the IP address of all already added
	device.
Port	Display the port of all already added device.
Video Channel	Display the maximum number of video channels

	allowed to play of all already added device.
Connection Status	Display the current connection status of all
	already added device. The reason will be
	displayed, if equipment login fails.
Operation	Click and enable it to open the web user-side
	interface of the device.

Table 5.1.1.1

!Description: (1) The device interface displays basic information such as the name, device type (IPC/PTZ or NVR), device model, IP address, port number, number of video channels, and connection status of all currently added devices. Click the name, IP address to sort in ascending or descending order.

- (2) The device connection status is green for online devices and red for offline devices.
- (3) Operations such as adding, modifying, and deleting devices can be performed on this page.
- (4) The upper right corner shows the number of online devices and the total number of devices respectively

5. 1. 1. 1. Auto search of encode device

Click "Q Auto Search" to enter automatic search interface, as shown in below figure:

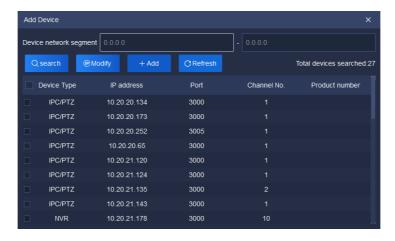


Figure 5.1.1.2

The upper right corner displays the number of devices found.

Total devices searched:27

Enter the start ip and end ip in the network segment of the device, and click the "Qsearch" button to search for devices in the network segment. The search function supports cross-router search (the device displayed by default is the device under the current router if there is no search).

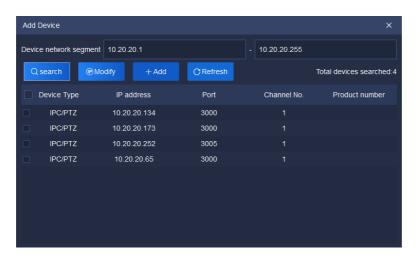


Figure 5.1.1.2 (1)

After selecting the device, click the " button, and the [Modify Device IP] interface will pop up, enter the new IP of the device (supports modification across network segments), subnet mask,

gateway, and correct user name and password, and click the " or " button to modify Device network information, click " cancel " or " not to modify.

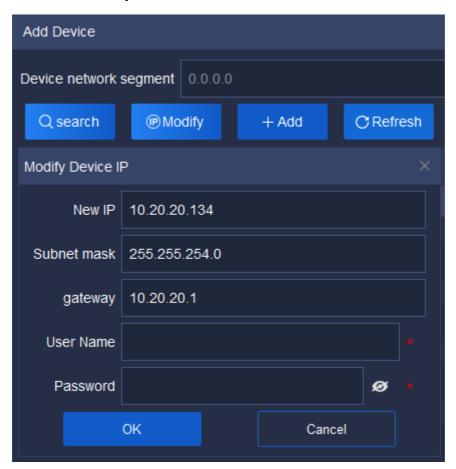


Figure 5.1.1.2 (2)

Tick and select one or more device in device column, click "

+ Add
and a pop-up to add device will display, input the device's user name and password (it's recommended to set unified user name and password for several device, if user name or password is wrong, the batch addition of partial device will fail). If you select to import it into a group, the device will be automatically imported into the group, otherwise you need to manually add to a group, as shown in below

figure:

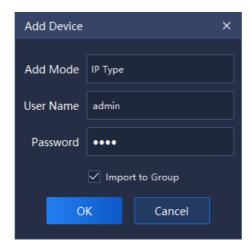


Figure 5.1.1.3

After addition, it will display the number of device successfully and unsuccessfully added, as shown in below figure:

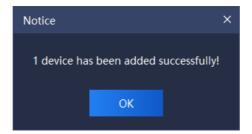


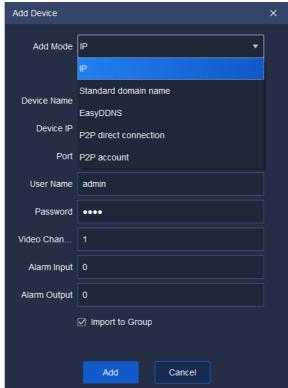
Figure 5.1.1.4

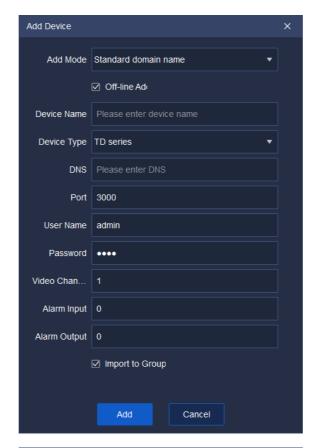
Click " C Refresh " to refresh the information of on-line device.

5.1.1.2. Encode device addition

Click " + Add " to enter device addition interface, as shown in below figure:









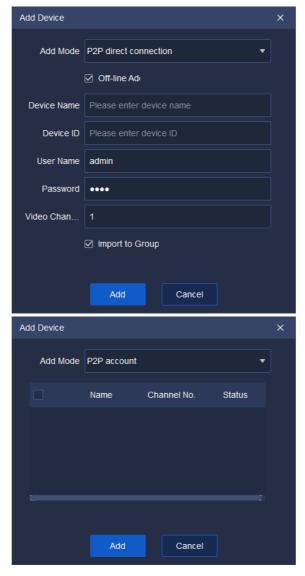


Figure 5.1.1.5

Select device addition type and fill in corresponding device name, device ID, port, user name, password and video channel, and tick to select whether it's offline device addition and whether needs to import a group according to requirement, the description of related parameter information is as follows:

Parameter	Description
	Select different add type: IP type, Standard
Add Mode	domain name type, EasyDDNS type , P2P direct
	connection type, P2P account number type.

Off-line Add	Tick, then both on-line and offline device can
	be added. Not to tick, then only on-line device
	can be added.
	Add device name. (There's illegal character
Device Name	limit when adding device name, following
Device Name	characters are not allowed to be input
	~!#\$%^()=[]{}, ":;'<>?*`+/\&)
Device Type	Optional device type: TD series (Tiandy series).
Device IP	Add device IP.
DNS	Add device DNS.
	This information needs to be typed in when
	enabling the P2P direct connection adding
	model.
D : 1D	Find [Device ID] via Device IE->Config>System
Device ID	Config>System Maintenance->System
	Upgrading->Version Info, or Device
	IE->Config>Advanced Option->System Settings,
	then type in the digital characters.
DNC H	It's necessary to input this information when
DNS User name	EasyDDNS type is selected.
DNC Daramand	It's necessary to input this information when
DNS Password	EasyDDNS type is selected.
Port	Add the communication port of device.
User Name	Add the login user name of device.
Password	Add the login password of device.
V: 1 2:	Add the total number of video channels the device
Video Channel	has.
Import to Group	Tick, then the system will automatically add the
·	

	device to Customized list and create a group (the
	same as device name).
Alarm Input	Number of alarm input ports of the device
Alarm Output	Number of alarm output ports of the device

Table 5.1.1.2

Upon correct information is input, the device will be connected, as shown in below figure:

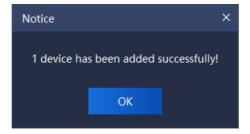


Figure 5.1.1.6

5. 1. 1. 3. Encode device modification

Tick and select the device to be modified, click " Modify " to enter device information modification interface, as shown in below figure:

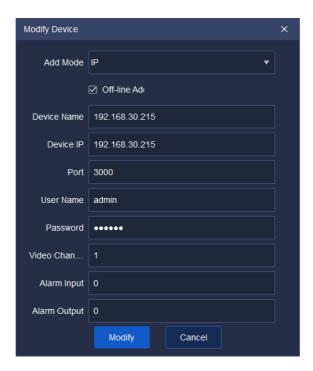


Figure 5.1.1.7

Modification of add type, device name, device type, device IP, port, user name and password, video channel and other related information supported. Click "Modify" to complete modification, as shown in below figure:

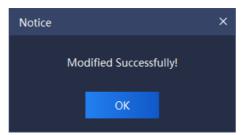


Figure 5.1.1.8

5. 1. 1. 4. Encode device deletion

Select one or more devices to be deleted, click "Delete" to enter device deletion interface, as shown in below figure:

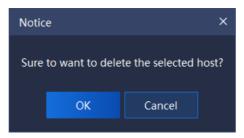


Figure 5.1.1.9

5.1.1.5. Encode device invert selection

Select one or more devices not to be operated, click "Invert Selection", select all devices not selected at that moment, and conduct on selected devices.

5. 1. 1. 6. Encode device refresh

Click " Refresh " to refresh the information of all devices on current page.

5. 1. 2. Deciding device management

The operation is the same as 5.1.1 encode device management.

5.1.3. Grouping

Click "Group" to enter group management interface. Information of all devices and customized groups in current system will be displayed, as shown in below figure:

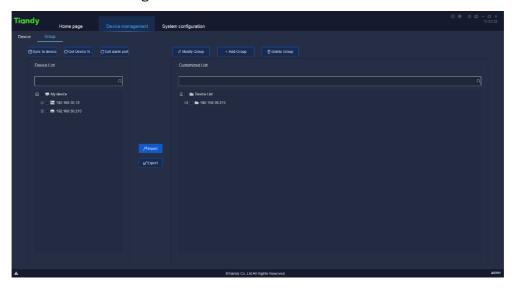
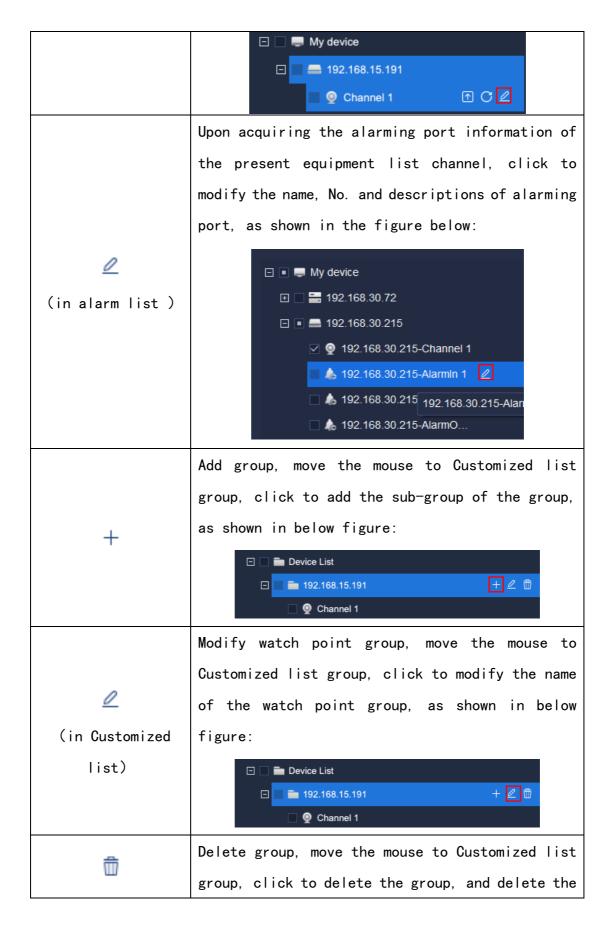


Figure 5.1.2.1

The description of related parameters in this interface is as follows:

Parameter	Description
↑ Sync to device	Set the channel name on the local device tree synchronously to the front-end channel.
C Get Device Name	Get the front-end channel name of on-line channel in Device list.
C Get alarm port	Obtain the alarm input and output information of IPC and NVR equipment.
∠ Modify Group	Select a group in Customized list, click to modify the group name.
+ Add Group	Select the list needs to create sub-group in Customized list, click to add a group.
f Delete Group	Tick and select a Customized list group, click

to delete the group and delete the sub-groups
and channels in the group at the same time.
Tick and select the channel in left Device list,
select a group in right Customized list, click
to import the device to the customized device
list.
Tick and select the channel in Customized list
group, click to export that channel.
Quick search of channel name, input key
information and the channel name including that
key information will be displayed in Device list
and Customized list.
Sync to device, move the mouse to Device list
channel node, click synchronize the channel name
to the front-end channel, as shown in below
figure:
☐ ☐ ■ My device
□ □ □ 192.168.15.191
☐ Q Channel 1
Get the name, move the mouse to Device list
channel node, click to get the front-end channel
name of single channel, as shown in below figure:
☐ ☐ My device
□ □ □ □ 192.168.15.191
☐ Channel 1 C C
Modify channel name, move the mouse to Device
list channel node, click to modify the channel
name, as shown in below figure:



sub-groups and channels in the group at the same time, as shown in below figure:

Device List

Table 5.1.2

The information in left Device list is the information of all added encode devices and their channels automatically generated by the system. The right Customized list is the group information customized by users themselves. To facilitate user's management, users may add the encode device on the left to the Customized list on the right as necessary. For example, to add all channels of device 10.30.10.12 in Device list to the "Group Test" in customized group of Customized list, the operation steps are:

- 1) Tick and select all channels of 10.30.20.12 in Device list

 1. In the select all channels of 10.30.20.12 in Device list

 1. In the select all channels of 10.30.20.12 in Device list
- 2) Select the customized group to be added in Customized list (highlighted when selected)



3) Click " to add channels.

Similarly, select corresponding device channel in Customized list,

click " to delete the device channel from Customized list.

(Note: Modules other than equipment management all load Customized list, users need to add used devices into Customized list.)

If the name of Channel 1 in device 10.30.10.21 in Device list needs to be modified, click "_" and a pop-up for modifying device name will display (if the video has been encrypted, it can be decrypted here),

as shown in below figure:

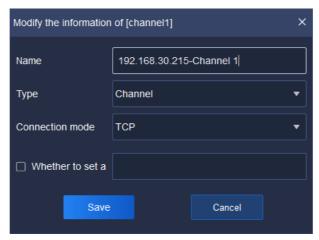


Figure 5. 1. 2. 2

Relevant interface parameters are described as below:

Parameter	Description
Name	Modify the name of present channel.
Туре	Support the selection of both channel and bayonet.
Connection mode	Support three connection modes of TCP, MCAST (RTSP) and MCAST (SRTP). In other words, the platform supports video playing in the form of MCAST (RTSP) and MCAST (SRTP) on the real-time preview interface.
Set password or not	An encrypted video password can be set after enabling. Decrypt video that has been encrypted here.

Table 5.1.3

If the alarm port 2 in device192.168.30.215 in Device list needs to be modified, click " \mathcal{L} " and a pop-up for modifying device name will display, as shown in below figure:

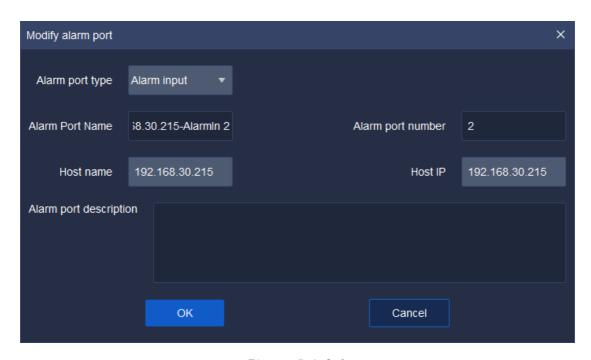


Figure 5.1.2.3

Relevant interface parameters are described as below:

Parameters	Descriptions
Type of alarming port	Obtain the information about the present alarming port and support two types of ports, i.e., alarm input and alarm output.
Name of alarming port	Name of alarming port can be self-defined.
No. of alarming	The No. of alarming port can be self-defined
port	(ensure port No. cannot be repeated).
Host name	Obtain name of the present host automatically. Modify host name by Equipment-> Coding device -> Modify.
Host IP	Obtain the IP of the present host automatically
Descriptions of alarming port	Add information about the descriptions of alarming port based as required.

Table 5.1.4

Similarly, select list group in Customized list, click " \mathcal{L} " and a pop-up for modifying watch point name will display, as shown in below figure:

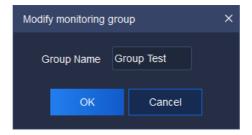


Figure 5.1.2.4

5.2. Real-time preview

Click the real-time preview icon on the home page to enter real-time preview interface. The main interface consists of Device list, video preview window, View, PTZ control, Senior and Target Information, as shown in below figure:

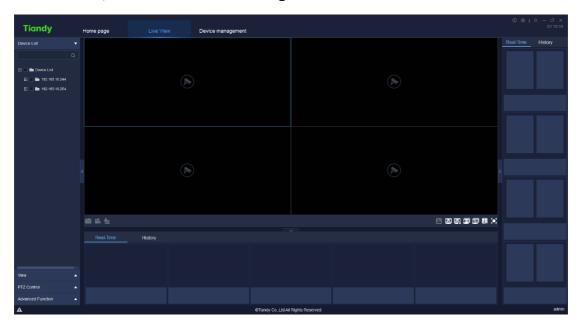


Figure 5.2

Click " or " to unfold or hide the view boxes at the left

and right sides.

Click "or "or "to unfold or hide the view boxes below.

Position the channel node quickly by clicking video window.

The equipment supports video preview and broadcasting by dragging it from group list to window.

5. 2. 1. **Device list**

Click "Device list" on the left to display all customized group list and input key information in search blank, double click to check device watch point, as shown in below figure:

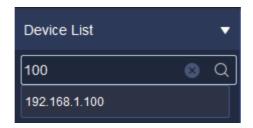


Figure 5.2.1

5. 2. 1. 1. Right key menu of encode device customized group list

Click right key on the customized group list and the right key menu of customized group list will pop up, as shown in below figure:

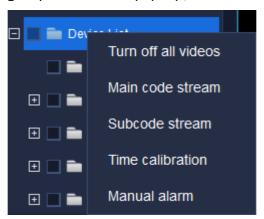


Figure 5.2.1.1

The description of related parameters is as follows:

Parameter	Description
Turn off all videos	Turn off all videos connected at that moment.
Main code stream	All the videos in current list are added and played in main code stream mode (as for the channel being played, the playing code stream will not be changed)
Subcode stream	All the videos in current list are added and played in subcode stream mode (as for the channel being played, the playing code stream will not be changed)
Time calibration	Conduct time calibration on on-line devices in all group lists.
Manual alarm	Cancel the current alarm in the channel in video manually.

Table 5.2.1.1

5.2.1.2. Right key menu of encode device group list

Select a group in Device list and click right key, the right key menu of device group list will pop up, as shown in below figure:

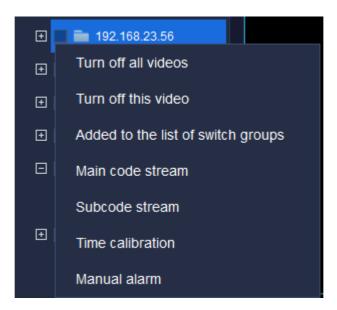


Figure 5.2.1.2

The description of related parameters is as follows:

Parameter	Description
Turn off all videos	Turn off all videos connected at that moment.
Turn off this video	Turn off all videos connected in current group.
Added to the list	Add selected encode device to automatic switch
of switch groups	group list.
Main code stream	All the videos in current list are added and played in main code stream mode (as for the channel being played, the playing code stream will not be changed)
Subcode stream	All the videos in current list are added and played in subcode stream mode (as for the channel being played, the playing code stream will not be changed)
Time calibration	Conduct time calibration on on-line devices in selected group lists.

Manual alarm	Cancel the current alarm in the channel in video
	manually.

Table 5. 2. 1. 2

5. 2. 1. 3. Right key menu of encode device list

Select a channel watch point of a device in device list group, click right key, the right menu of device list will pop up, as shown in below figure:

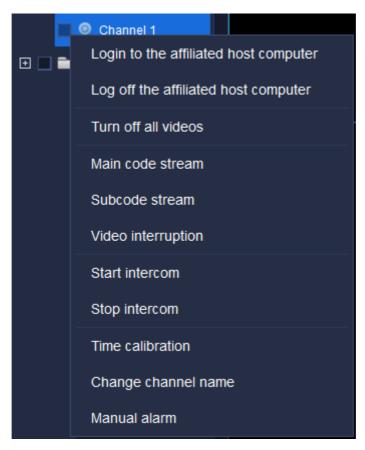


Figure 5. 2. 1. 3

The description of related parameters is as follows:

Parameter	Description
Login to the	Right click the encode device channel to restore the
affiliated host computer	connection between the device host computer of the
	channel and Easy7 platform. For example, select
	Channel 1 in [Device List] in above figure (the

affiliated host computer is 192.168.15.191), right click "Login to the affiliated host computer", the connection status of the host computer 192. 168. 15. 191 is on-line, as shown in below figure: Video Channel Connection status (Device List ⊞ ■ 192.168.15.191 192.168.15.191 TD series 192.168.15.191 192.168.15.213 192.168.15.213 192.168.15.213 192.168.15.149 TD series 192.168.15.149 3000 □ □ 192.168.15.149 192.168.15.144 192.168.15.144 3000 192.168.15.148 192.168.15.148 192.168.15.139 192.168.15.188 192.168.15.197 Right click the encode device channel to disconnect the connection between the device host computer of the channel and Easy7 platform. For example, select Channel 1 in [New Group] in above figure (the affiliated host computer is 192.168.15.149), right click "Log off the affiliated host computer", the Log off the connection status of the host computer 192. 168. 15. 149 affiliated is offline, as shown in below figure: ☐ ■ Device List Video Channel Connection status host computer □ 🖿 🖿 192.168.15.191 TD series 192.168.15.213 TD series 192.168.15.213 3000 192.168.15.149 TD series 192.168.15.149 3000 On-line □ 🔳 🖿 192.168.15.149 192.168.15.144 192.168.15.144 3000 Ohannel 1 ■ ☑
■ 192.168.15.144 192.168.15.148 F 192.168.15.148 **192.168.15.184 192.168.15.52** 192.168.15.188 192.168.15.188 On-line 192.168.15.188 3000 **192.168.15.197** 192.168.15.197 192.168.15.197 TD series 3000 On-line Turn off all Turn off all videos connected at that moment. videos Main code In the channel of login encode device, click this

stream	button to connect the main code stream video of the	
	channel.	
Subcode stream	In the channel of login encode device, click this	
	button to connect the subcode stream video of the	
3 CT Calli	channe I.	
Video	In the channel connected to video, click this button	
interruption	to disconnect the video of the channel.	
	In the channel of login encode device, click this	
	button to talk to the video source of the channel.	
Start	Click this button in the channel of DVR/NVR device,	
	the intercom box "Talking to XXXX" will pop up to	
intercom	start talking with DVR/NVR; click this button in the	
	channel of IPC device, the intercom box "Talking to	
	XXX" will pop up to start talking with IPC device.	
	In the channel of login encode device, click this	
Stop intercom	button to stop the intercom with video source of the	
	channel.	
Time	To combine time collings to the collings of th	
calibration	To conduct time calibration on this on-line device.	
Change		
channel name	Change the name of currently selected channel.	
Manual alarm	Cancel the current alarm in the channel in video	
	manually.	

Table 5.2.1.3

Choose one alarming input port in group in the equipment list, click the right key and the right key menu of equipment list will pop out, as shown in the figure below:



Figure 5. 2. 1. 4

Relevant parameters are described as below:

Parameter	Description
Manual alarm	If the equipment alarm inputs alarm, click "Manual alarm cancellation" to clear the alarm in process.

Table 5.2.1.4

Choose one alarming output port in group in the equipment list, click the right key and the right key menu of equipment list will pop out, as shown in the figure below:

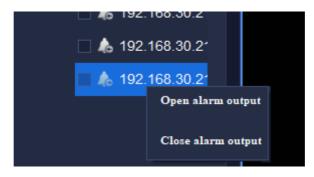


Figure 5.2.1.5

Relevant parameters are described as below:

Parameter	Description
Open/close alarm	Control the on/off status of claum output nout
output	Control the on/off status of alarm output port.

Table 5.2.1.5

5.2.2. Video preview window

In video preview window, the video will be displayed in the middle, capture menu, video menu and sound menu are in the left lower part, menus can realize its function respectively. Double click video window to maximize it and double click it again to restore, as shown in below figure:



Figure 5. 2. 2. 1

During the video preview, the split screen window will self-adapt to the video according to the number of linked videos, and it supports the real-time video playing of devices added in various ways.

The target bar in the below will display human face information, age, sex, whether or not wearing a mask, whether or not wearing glasses and physical temperature, etc.

The target bar in the right will display the comparison similarity result with the human face database, and the strangers' face will not be displayed.

When previewing video, the target bar on the right side can display the real-time detected face information.

When previewing video, the status bar at bottom left (in dark color) may display current channel is connecting respectively, audio preview, capture function, instant playback and channel video recording are

supported. The channel name will be displayed at bottom right, when the alert is turned on, the right upper corner of the video window will display the alert icon and not to display it when the alert is turned off, as shown in below figure:

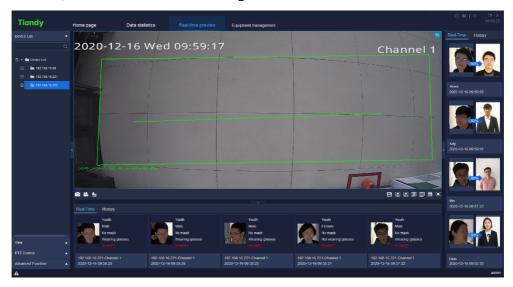


Figure 5. 2. 2. 2

5. 2. 2. 1. Toolbar in video preview interface

The description of icons in toolbar in video preview interface is as follows:

Icon	
[6]	Capture all, to capture windows of all connected
	videos at current screen.
••	Start all recording, record windows of all
-	connected videos at current screen.
Q _E	Intercom list, display current intercom status.
	Save view, users click to save current view
	information.
	Rotating display plan, allow users to set their
E	own switch mode, so that Easy7 can automatically
	switch video channels on [Real-time preview]

	interface for users' convenient browse.
	Start rotating display, automatically switch video channels to preview according to rotating display plan.
	Group switching list, click this button to display group switching list. There will have devices in the list only when right click the device group in customized device list of device list on the left to select and add devices to [Add to group switching list].
H	Last group, which supports the manual switch group to switch the last screen of group.
<u></u>	Start/Stop group switching, open video window, click this button to conduct group switching; click again to stop group switching.
H	Next group, which supports the manual switch group to switch the next screen of group.
	Set number of video views, click and the setting menu of displayer will pop up.
[•]	Full screen, click to display video window at full screen. Click ESC button or right click the video to cancel full-screen display to escape from full-screen model.
	Indicate that the video connecting status is direct connection
¥	Turn off the video, i.e. disconnect the connection of present video.
4))/ 4 ×	Turn on audio / Turn off audio

©	Screen capture, capture the picture of the
	present video。
224	Turn on tape recording / turn off tape recording
	Instant replay, which supports timely view of
	present playback based on demands. The time of
⑤	instant replay can be modified according to
	System settings -> Video-related -> Time of
	instant playback.
م	Return to preview to exit the page of instant
	playback.

Table 5.1.2.1

5.2.2. Right key menu of video preview window

Right click video preview window and the right key menu of video preview window will pop up, as shown in below figure:

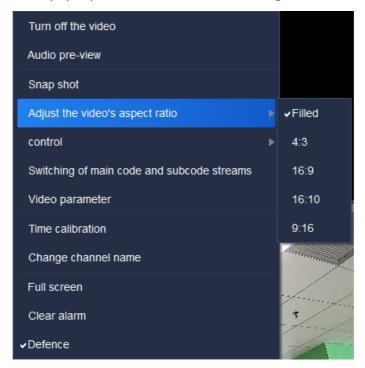


Figure 5. 2. 2. 3

The description of related parameters is as follows:

Parameter	Description
Turn off the video	Click on the single video window of connected video to turn off the video in the window.
Audio pre-view	Click on the single video window of connected video to listen to the audio of video channel in the window.
Snap shot	Click on the single video window of connected video to take snap shot of the window.
Adjust the video's	Adjust the video's aspect ratio, filled,
aspect ratio	4:3, 16:9, 16:10 and 9: 16 supported.
Control	Electronic amplification and fast ball 3D control are available.
Electronic amplification	After enabling the electronic amplification function, press and hold left button of mouse and move the mouse in video & image area to choose the area you want to amplify (roll the pulley of mouse to amplify the image in the area chosen).
Fast ball 3D control	By clicking mouse, the scenes monitored are adjusted to video center. In detail: 1. Click the left button on the point of monitored video and the point will move to center of the video. 2. Press and hold the left button and move the mouse downward and rightward to choose a rectangular area. The center of the rectangular area chosen will move to the center of the video and amplify.

	3. Press and hold the left button and move the mouse upward and leftward to choose a rectangular area. The center of the rectangular area chosen will move to the center of the video and shrinks.
Switching of main code and subcode streams	Auto switch between main code and subcode streams. Support simultaneous switch among native video.
Video parameter	Set the display parameter of currently selected video: brightness, contrast, saturation and Hue.
Video parameter	Modify video parameters of selected video, restore default supported.
Time calibration	Conduct time calibration on the on-line device.
Change channel name	Change the name of currently selected channel.
Full screen	Display video view window at full screen.
Manual alarm	Cancel the current alarm in the channel in video manually.
Defense	Support one-key defense deployment/withdrawal function.

Table 5. 2. 2. 2

$5.\,2.\,2.\,3.$ Rotating display plan

The main function of rotating display plan is to allow users to set their own switch mode, so that Easy7 can automatically switch video channels on [Live View] interface for users' convenient browse. Notice:

A Liveview window supports up to 64 Cameras previews.

1) Add view:

After configuring the split screen scheme and the video played, click " " in preview interface toolbar to save view, as shown in below figure:

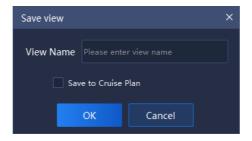


Figure 5. 2. 2. 4

2) Add rotating display plan:

Click view bar on the left and select the view to be added, right click "Add to the regular rotating switch program", as shown in below figure:

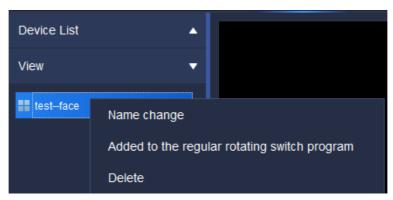


Figure 5. 2. 2. 5

3) Set rotating display plan:

Click " in preview interface toolbar in bottom right to enter to List of view rotating display plan interface, as shown in below figure:

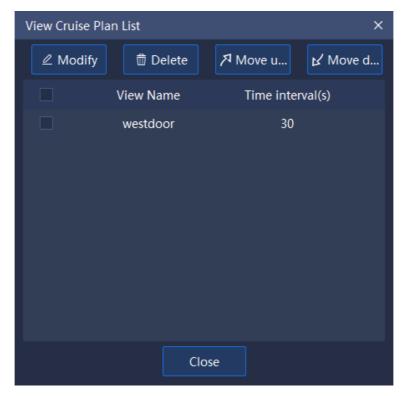


Figure 5. 2. 2. 6

(1) Change the rotating display intervals: tick and select the view to be modified, click " $^{2 \text{ Modify}}$ " too change the rotating display interval (the range of interval value is $30^{3}600$ s), as shown in below figure:

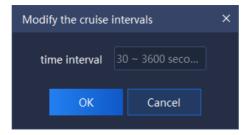


Figure 5.2.2.7

(2) Delete: tick and select the view to be deleted, click "

" to delete the view, as shown in below figure:

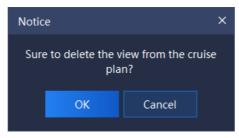


Figure 5. 2. 2. 8

- (3) Move upwards/Move down: tick and select the view to be moved, click "Move upward Move down" to adjust the view play order.
- 4) Turn on/Turn off rotating display plan:

Click " in preview interface toolbar on bottom right to turn on rotating display plan, click again to turn off rotating display plan.

5.2.2.4. Group switching setting

1) Add group switching:

Right click a group in "Device list" on the left, click "Add to group switching list" to add group switching, the pop-up notice box is shown as follows:

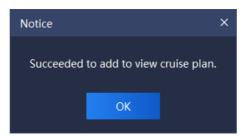


Figure 5. 2. 2. 9

2) Set group switching:

Click "in preview interface toolbar on bottom right to set interval and group split screen number of group switching, as shown in below figure:

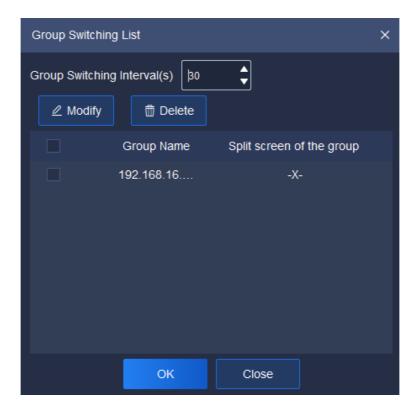


Figure 5. 2. 2. 10

- (4) Set group switching interval: set group switching interval in upper part of the interface, the range of interval value is 30~3600s.
- (5) Set split screen number, $-\times$ screen (not to change split screen number and keep original split screen number), 1×1 screen and 2×2 screen supported. Two methods can be adopted to change split screen number, explained as follows:
 - ①Click " o enter Set Split Screen

 Number interface;
 - ②Double click the split screen number in Group Split Screen to set enter Set Split Screen Number interface, as shown in below figure:

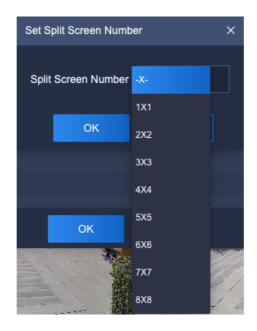


Figure 5. 2. 2. 11

1) Turn on/Turn off group switching:

Click "on preview interface toolbar on bottom right to turn on group switching, click again to turn off group switching.

5. 2. 2. 5. Target Information

Under and in the right of real-time preview interface, display information of identified persons and the comparison human face database, as is shown in below figure:





Figure 5. 2. 2. 12

The target information can identify the person's age, sex, whether or not wearing a mask, whether or not wearing glasses, detected physical temperature and detection time in real time. At the same time, it can also identify whether the person matches in the human face database. If yes, it can be compared with the pictures uploaded in the database, and the similarity, the name of the person and the detection time will be displayed, otherwise stranger alarm will be on.

If previous record needs to be checked, shift to "History" to check history information.

5. 2. 3. View

View list shows currently saved view tag, double click to preview the information of this view. Right click this list view node and a menu will pop up, as shown in below figure:

Name change

Added to the regular rotating switch program

Delete

Figure 5.2.3

The description of related parameters is as follows:

Parameter	Description
Name change	Click to change view name.
Add to the regular rotating switch plan	Click to add the view to the regular rotating switch plan list.
Delete	Click to delete this view information node from view list.

Table 5.2.3

5.2.4. PTZ control

PTZ control may control PTZ speed, preset, etc., as shown in below

figure:



Figure 5.2.4

The description of icons on PTZ control interface is as follows:

Icon	Description
	8-direction key, press corresponding
	direction key to control PTZ to rotate in
	the direction accordingly; the center button
Y	is scan shortcut key.
	Zoom control button, press "Q" to control
	the device to perform zoom-out operation,
	the field of view angle becomes larger and
Q/Φ	the scene becomes smaller; press " \oplus "
	control device to perform zoom-in operation,
	the field of view angle becomes smaller and
	the scene becomes larger.
₩ / ©	Focus control button, press " to control
	the device to perform focusing-in operation,
	the near scene is clear and the far scene is
	fuzzy; press "" to control the device to

	perform focusing-out operation, the far
	scene is clear and the near scene is fuzzy.
	Aperture control button, press "@" to
	control the device to perform aperture
0 / 0	reduction operation, press "•" to control
	device to perform aperture enlargement
	operation.
Speed -	The slider can adjust the rotation speed of
Speed ——•	the device.
Preset 1 💠	Set the preset number for calling.
	Call the preset. Select saved preset, click
•	to call and the screen will jump to the
	preset part.
	Set the preset. Select the preset number to
A	be saved, adjust the screen to the preset to
	be saved, click Set to save this position.

Table 5.2.4

5. 2. 5. **Senior**

Senior may set the light, power and wiper, as shown in below figure:

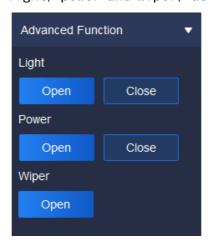


Figure 5.1.5

The description of related parameters is as follows:

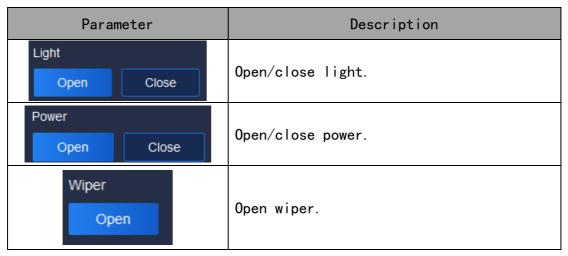


Table 5.2.5

5.2.6. Collections

"Device list" bar on the left, and select Collections, or right click the current screen to select Collections on the menu to collect the channel, as shown in Figure 5.2.6.1(1) and Figure 5.2.6.1(2) below:

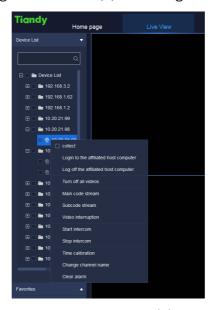


Figure 5. 2. 6. 1(1)



Figure 5. 2. 6. 1(2)

View channels collected. View the channels collected in the "*Collections*" bar on the left, as shown in Figure 5.2.6.2:



Figure 5. 2. 6. 2

5.2.7. Delock encrypted channel

Input the correct password in the prompt box on the screen to be played to play the video normally, as shown in Figure 5.2.7.1 below:

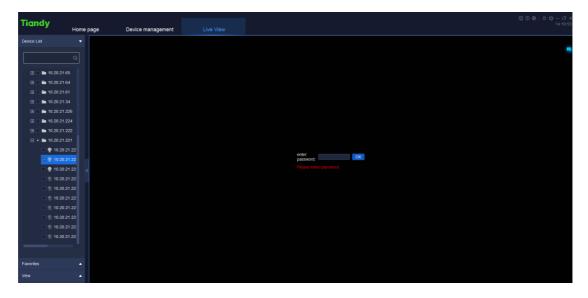


Figure 5. 2. 7. 1

5.2.8. Fisheye expansion function

Right click in the video preview process to select "Fisheye expansion", as shown in Figure 5.2.8.1 below:



Figure 5. 2. 8. 1

There are three modes of "top mounted", "wall mounted" and "ground mounted", as shown in Figure 5.2.8.2. The "top mounted" mode is taken as an example to introduce the fisheye expansion function as below.

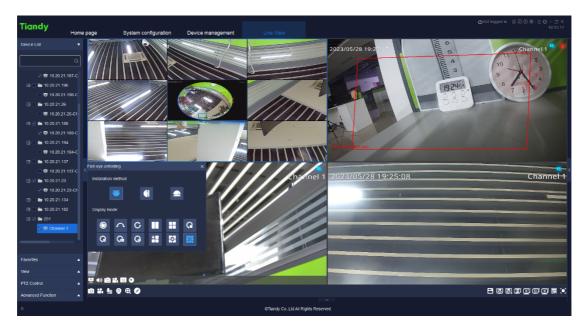


Figure 5.2.8.2

Take the "top mounted" mode with "360+3ptz" display mode as an example, and the operations of other modes are similar. The top left screen in the splitter window is a 360 screen, and the areas with different colors are the other three screens. In these areas, the user can zoom in. After selecting a specific area, the user can drag the screen through the PTZ control, and can control the drag speed by controlling the speed bar. Click in the PTZ control, and the selected screen will cruise along a certain track. See Figure 5.2.8.3 for various modules:

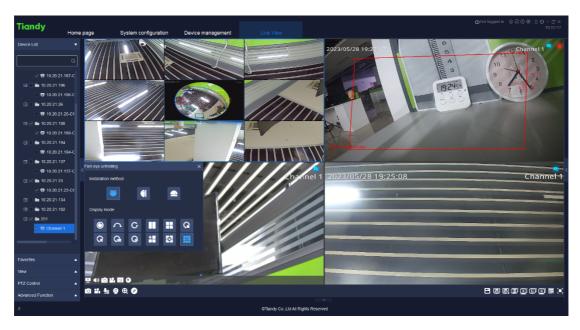


Figure 5.2.8.3

5.2.9. USB Keyboard Control

Added the relevant functions of connecting the C312 keyboard via USB, Now you can operating the video preview and remote playback module through the keyboard.

After the keyboard is connected, the connection status icon will appear in the upper right corner of the software interface, click the icon to read the instructions:



Figure 5. 2. 8. 1

Click the debug button in the keyboard instructions to enter the keyboard debugging interface and test whether the keys of the keyboard are available normally.



Figure 5. 2. 8. 2

When you preview a video, you can use the keyboard to manipulate video recording, capture, and preview channel switching. You can also use the keyboard to control PTZ, set and recall preset positions, set wipers, lights, and apertures. See keyboard instructions for details.

5.3. Video playback

Click the video playback icon on home page to enter video playback interface, query of video recording and time-based video downloading are supported, as shown in below figure:

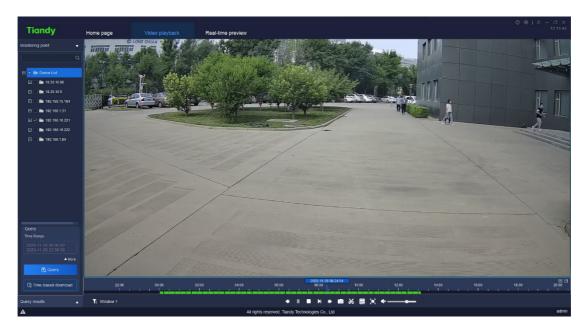


Figure 5.3

5. 3. 1. Video query

In video playback interface, click Watch point on the left, set range of time for query, if more precise query is required, click "

More" to set storage type, stream type and other screening conditions for query, then click "

More" again to hide detailed screening condition, as shown in below figure:



Figure 5.3.1.1

Select range of time, select the start time on the start calendar of the time range and the end time on the calendar for the end time.

When front-end storage is selected in storage type, following stream types can be selected, both main code stream and subcode stream supported.

When conditions are selected, click Query to display query result notice box, as shown in below figure:

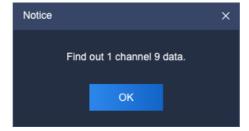


Figure 5.3.1.2

Click "Query results " below to check current query results, the expanded interface is shown in below figure:



Figure 5.3.1.3

At this time, the query results will be displayed on the progress bar, and users can playback by clicking the time point on the progress bar

Note: The front-end storage video supports synchronous playback (four-channel synchronous playback supports at most).

5.3.2. Video playback

Play mode 1: for queried videos, double click one video file to realize playback of the file.

Play mode 2: select a playback window, click of playback control to realize video playback on time axis related to selected window.

Play mode 3: select a playback window, directly click the time point in time axis to play back from that time point.

5. 3. 2. 1. Playback control

The playback control menu is shown as follows:



Figure 5.3.2.1

The description of icons on playback control interface is as follows:

Icon	Description
(On/off synchronous playback; asynchronous playback is set by default. Click to enter synchronous playback mode and click again to exit it. Note: Synchronous playback not supported for local video.
«	Slow forward button, click to make the video file play slowly. Note: as for the equipment added by P2P direct connection, click the "slow play" button to slow from 4x to 2x and from 2x to 1x. 1x speed is the slowest. 1/2 speed is not supported.
>>	Fast forward button, click to make the video file play quickly. Note: the equipment added by P2P direct connection supports 4X speed playing at most.
▶ / Ⅱ	Play/Pause button, click to control the start/pause of video file.
M	Step forward button, click to make the video file play frame by frame.
	Stop button, click to stop the playback of current video file.

Ô	Capturing button. Click it to capture the video
	file that is selected and being played.
	Video clip button: click it to start video clip
	and click it again to finish that. The time axis
	of clipped section will become red and the target
*	section will be saved. The format of video saved
	can be modified by setting "system settings ->
	video -> download video format"; three formats
	sdv ,mp4, and avi are available.
	Set screen number button, click to pop up the
	menu of playback window split screen.
	1×1 screen playback supported, click and the
	video playback window will display in single
	screen.
	1×2 screen playback supported, click and the
	video playback window will display in two split
_	screens.
	1×3 screen playback supported, click and the
	video playback window will display in three split
_	screens.
	2×2 screen playback supported, click and the
	video playback window will display in four split
	screens.
	3×3 screen playback supported, click and the
	video playback window will display in nine split
	screens.
	4 imes4 screen playback supported, click and the
	video playback window will display in sixteen
1	

	split screens.
	Full screen display button, click to display the
[•]	playback window in full screen. Click ESC or
,	right click to cancel full screen display to turn
	off full screen display.
	Volume adjustment bar, drag to adjust the sound
■ 3) ————	of video playback. Click on the horn to turn
	sound on/off.
-/+	Used to adjust the accuracy of time axis.
Window 1	Display the current control window number.
	Video type filter button, click to filter the
T	video time axis type, and the time axis of
	unselected video type will not be displayed. The
	filter of all types, alarm recording, timing
	recording and manual recording is supported.

Table 5.3.2.1

5. 3. 2. 2. Right key menu of playback window

In video playback window, right click, and the right key menu of playback window will pop up, as shown in below figure:



Figure 5.3.2.2

The description of related parameter is as follows:

Parameter	Description
Stop playback	Click to stop the playback of current video.
Snap shot	Click to snap shot of selected playback window.

Change channel	Click to change channel name of selected playback
name	window.
Full screen	Click to display the playback window at full
	screen. Click again to turn off full screen
	display.
Electronic zoom	Click the left button of mouse to choose and zoom
	in the area.

Table 5.3.2.2

5.3.3. Video downloading

The downloading is divided into two modes: by file and by time segment.

5. 3. 3. 1. Download by file

1) Batch downloading:

In video playback interface, click query result to check query result interface, tick and select several video files and right click, click ""—" to conduct batch downloading, as shown in below figure:

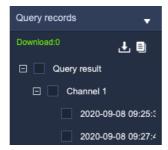


Figure 5. 3. 3. 1

Click " to enter export progress list interface to check the progress of file downloading, as shown in below figure:

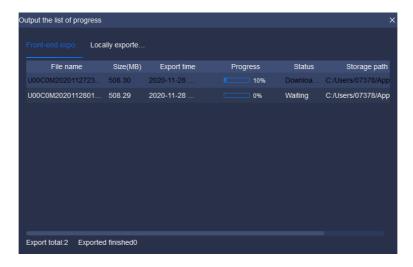


Figure 5.3.3.2

2) Stop export:

In export progress list, select the file needs to stop export, right click this file, select "Stop Export" to stop downloading the file, as shown in below figure:

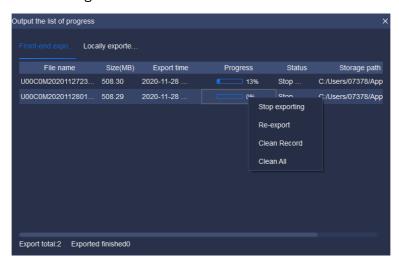


Figure 5.3.3.3

3) ReExport:

In export progress list, select the file needs to re-export, right click this file, select "ReExport" to export this file again to download.

4) Clean record:

In export progress list, right click a file, select "Clean Record to delete all downloaded records.

5) Clean all:

In export progress list, right click a file, select "Clean All to delete all downloaded records in the list.

(Note: When downloading front-end storage video files, only one record file can be downloaded at the same time.)

5. 3. 3. 2. By time segment

The video on the front-end storage supports downloading by time segment.

Select the channel you want to download (either through the drop-down menu or by clicking the channel in the tree list), select the time segment you want to download, and then click " Time-based download ".

5.3.4. Recent browsing

Record the latest video and click to preview it, as shown in below figure:

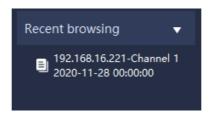


Figure 5.3.4

5.3.5. Fisheye expansion

See the introduction of fisheye expansion function in Chapter 5.2 Real-time Preview for details.

5.3.6. USB Keyboard Control

When you view remote playback, you can use the keyboard to control video playback, pause, fast forward, capture, and manipulate the

timeline. See keyboard instructions for details.

5.4. System Configuration

Click the system configuration icon on home page to enter system settings interface.

5.4.1. Common settings

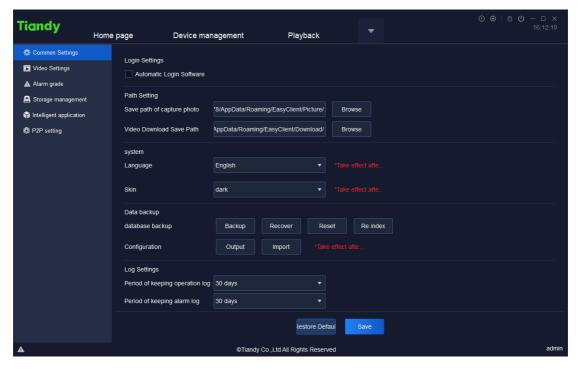


Figure 5.4.1.1

On the "Common Settings" page ->click the "Save" button at the bottom. If the function takes effect after restart, a prompt will pop up and you can restart it directly. As shown in Figure 5.4.1.1(1):

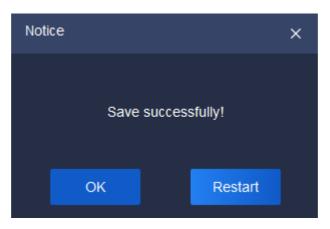


Figure 5.4.1.1

The description of related parameters in the interface is as follows:

Parameter		Description
Login Settings	Automatic Login Software	Tick and select, after fill in correct [User name] and [Password] by users, Easy7 will realize automatic software login function when the operation system starts.
Path	Save path of capture photo	The save path of capture, preview and playback photo.
Setting	Video Download Save Path	The save path of video download.
Contam	Language	Set the language of software system, effective after restart.
System	Skin	Set the skin of software system, effective after restart.
Data backup	Data backup path	Back up, recover, clean up and re- index software database backup files.
	Configuration	Import/export relevant

		configuration information with one
		key, such as equipment list, user
		authority and electronic map.
	Period of keeping	Set the save time of each operation
Log	operation log	log.
Settings	Period of keeping	Set the save time of each alarm
	alarm log	log.
Restore Default		Restore the configuration of
		current page to the configuration
		information when initially
		installed.

Table 5.4.1

5.4.2. Video Settings

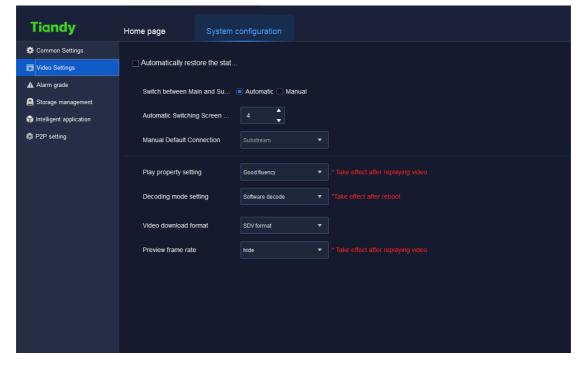


Figure 5.4.2

The description of related parameters in the interface is as follows:

Parameter	Description
Automatically restore the state last time you exit from the system	The video connected to video preview, when turns on the software again, the video before turn-off will restore connection.
Switch between Main and Sub Streams, Automatic Switching Screen	Set switching screen number, when the number of windows displayed in the client-side video browsing interface is greater than the number of split screens, the connected channel video will
Number Manual Default	default to the subcode stream. Set the code stream type of default play.
Connection Play property setting	Available to set Good fluency/Minimum delay. Take effect after replaying video.
Decoding mode setting	Software decode and hardware decoding are supported, effective after restart. Take effect after reboot.
Video download format	The download recording may set SDV (private format), MP4 (general format) and AVI format.
Preview frame rate	Show or conceal frame rate on preview screen. Take effect after accessing video again.

Table 5.4.2

On the "Video Settings" page -> click the "Save button" at the bottom, if the function takes effect after restarting, it will prompt a pop-up window to restart directly. As shown in Figure 5.4.2 (1):

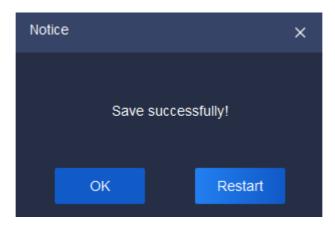


Figure 5.4.2(1)

5.4.3. Alarm grade

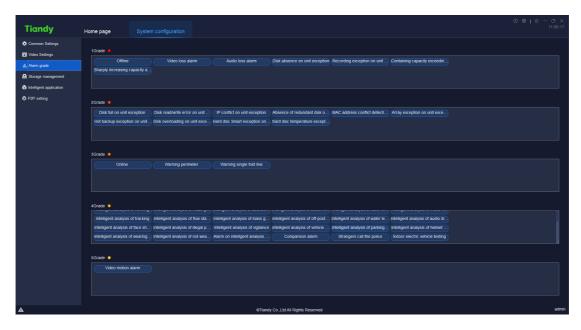


Figure 5.4.3

Drag the alarm type label to other grades to set the type to a new grade. Alarm grade is used for alarm record filter.

5.4.4. Storage management

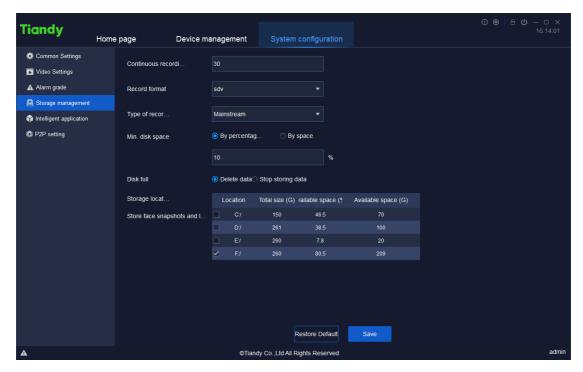


Figure 5.4.4

The description of related parameters in the interface is as follows:

Parameter	Description
Continuous recording time (min)	Set the time of continuous recording (recording packaging), the time range is 5~120 min.
Record format	SDV format , mp4 format and AVI format are supported for recording storage.
Type of record streaming	Main code stream and minor stream supported.
Min. disk space	Supported to set by percentage (%) or by space (G), fill in corresponding parameter in the text box below.
Disk full	Supported to select and delete the earliest

	local recording or stop recording.
Storage location	Set the storage location of files.

Table 5.4.3

5.4.5. Intelligence application

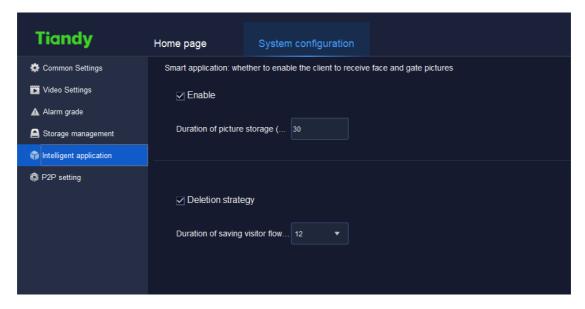


Figure 5.4.5

After ticking "enable intelligent applications", pictures of human face and man lock can be received. The picture snapshot reserve time can be defined for actual need.

After checking deletion strategy, the strategy can be executed after the upper limit of the stored guest flow duration (6-24 months be supported to choose from) is reached.

5.4.6. **P2P** setting

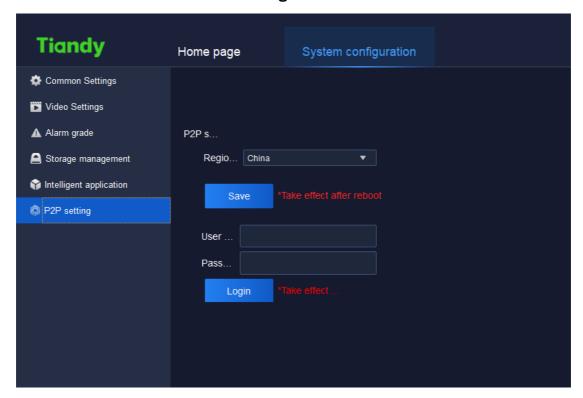


Figure 5.4.6

The description of related parameters in the interface is as follows:

Parameter	Description
Region	The place of P2P equipment configuration
User name	Enter the user name of P2P mobile phone client
	side
Password	Enter the password of P2P mobile phone client
	side
Log in	Enter correct user name and password to log
	in successfully.
	Click "save" to save the current
Save	configuration. That takes effect after
	restarting the program.

Table 5.4.6

5.5. Alarm management

Click the alarm management icon on home page to enter alarm management interface.

5.5.1. Real-time alarm

Real-time alarm list displays the alarm received after this login.

The list will be refreshed automatically, time of alarm, source of alarm, type of alarm, alarm grade and other alarm information will be displayed, as shown in below figure:

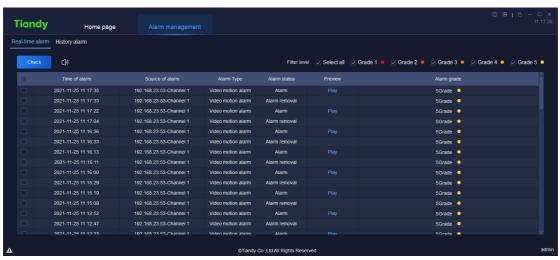


Figure 5.5.1

The description of related parameters in the interface is as follow:

Parameter	Description
Check	Tick and select alarm records need to be checked,
	click to fill in handling suggestion, the checked
	alarm records will be removed from real-time
	alarm, the handing suggestion and checking
	status will update to the history alarm record
	of corresponding alarm record.
Audio	Click to turn on/off alarm audio.

Play	Click to play the video 10s before and after the
	time of alarm, if there's no video, real-time
	preview will be displayed.
Filter level	Tick and select filter level, the selected level
	will be displayed in the list, nothing will be
	displayed if on level selected.

Table 5.5.1

5.5.2. History alarm

History alarm list displays all alarms, including checked and unchecked alarms, as shown in below figure:

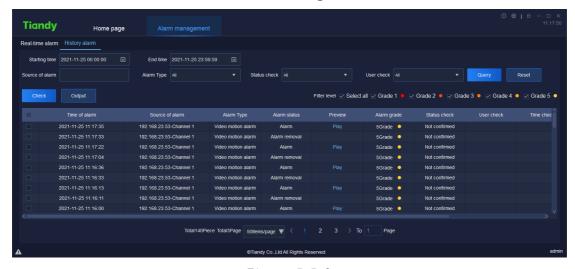


Figure 5.5.2

The description of related parameters in the interface is as follows:

Parameter	Description
Starting time	Available to set the starting time of history
	alarm query.
End time	Available to set the end time of history alarm
	query.
Source of alarm	Available to set the source of alarm of history
	alarm query, search by key word supported.

Status check	Available to set the checking status of history
	alarm query, including all, unchecked and
	checked.
User check	Available to set the checking user of history
	alarm query
0	Click to search history alarm information
Query	conforms to search condition.
Reset	Click to restore to default query condition.
	Tick and select alarm records need to be checked,
	click to fill in handling suggestion. Update
Check	verification status, verify users, verify real-
	time, and process comments after verification.
Output	Click to output query results to local device.
	Tick and select filter level, the selected level
Filter level	will be displayed in the list, nothing will be
	displayed if on level selected.
	Click to play the video 10s before and after the
Play	time of alarm, if there's no video, real-time
	preview will be displayed.

Table 5.5.2

5.6. TV Wall

Click the TV wall icon on homepage to enter TV wall configuration interface. There are functions of TV wall configuration, TV wall management and off-line switch settings as shown below.

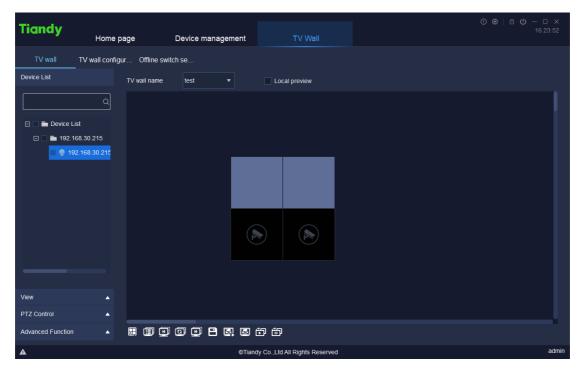


Figure 5.6

5. 6. 1. TV wall

TV wall interface is mainly used for configuring TV wall video display.

5. 6. 1. 1. TV Wall Video Configuration

Choose TV wall name on TV wall page to show the current TV wall layout. Choose a screen that needs video equipment. Choose the video equipment to be added in the left equipment list. One equipment can be added for only one time.

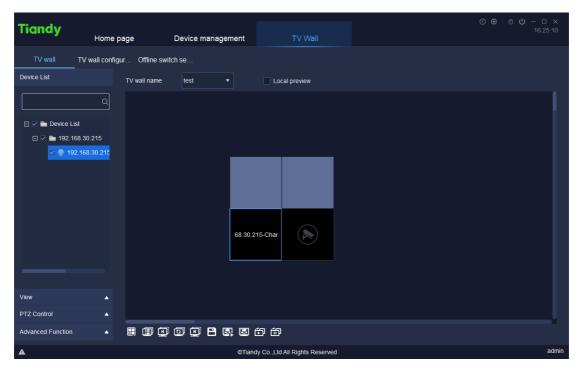


Figure 5. 6. 1. 1

The relevant icons and parameters on the interface are described below:

Parameter	Description
Local preview	After starting preview, videos can be previewed
	on current TV wall interface.
	Set the quantity of screens. 1 screen, 4
	screens, 6 screens, 8 screens, 9 screens, 16
	screens, 25 screens and 36 screens can be
	supported for every decoding output channel.
	Choose decoding output channel and click screen
	quantity to set the upper limit of screens of
	the decoding output channel.
	Click the button to show switch group list.
	Click the right button to define the equipment
	group in equipment list on the left, choose [Add
	to switch group list] to add equipment in the

	list.
K	Last group, which supports the manual switch
	group to switch the last screen of group.
	Start / stop group switch: open video window,
	click the button to switch group; click it again
	to stop the group switch.
	Next group, which supports the manual switch
	group to switch the next screen of group.
	Save the view: click to save the current view
	information.
	View browse plan: users can set suitable switch
	way and Easy7 can switch video channel
	automatically on page [Real-time preview],
	which is convenient for users' browse.
	Start view browse and switch video channel
MB.	automatically for preview according to the view
	browse plan.
	Start all off-line switch, click to enable and
ř.	start to watch decoding video of all output
	channels on decoder.
<i>2</i> 5	Stop all off-line switch, click to enable and
117	start to stop all decoded videos.

Table 5.6.1.1

If splicing function of equipment is started, click the splicing screen with the right button as shown below.



Figure 5. 6. 1. 2

The relevant icons and parameters on the interface are described below:

Parameter	Description
	The quantity of screens set by splicing unit can
	be defined by user.
Picture setting of	User-defined X
spicing unit	Number of rows
	Number of columns
	OK
	Choose the screen in splicing unit, click the
Create display area	right button to create display area.
Create all display	Click the right button to display the screen
areas	areas in all splicing units.
Close all display	Click the right button to close the screen areas
areas	in all splicing units.
All windows zoom	Click the right button to shrink the maximized

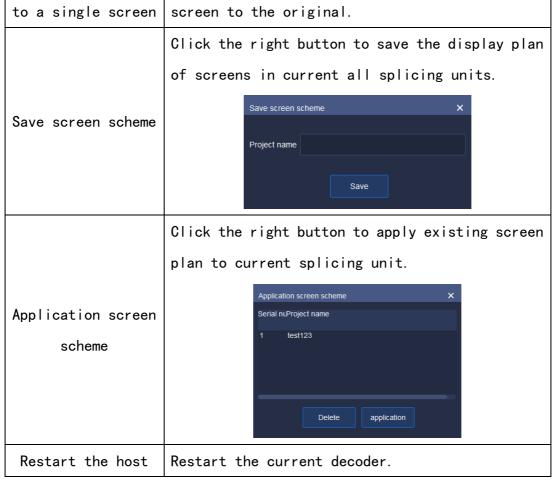


Table 5.6.1.2

The display area created by clicking the right button is shown below.

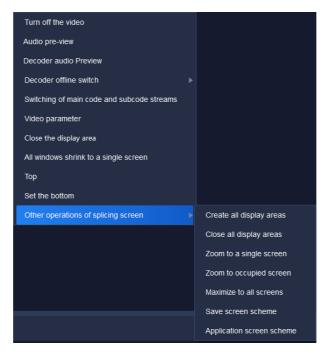
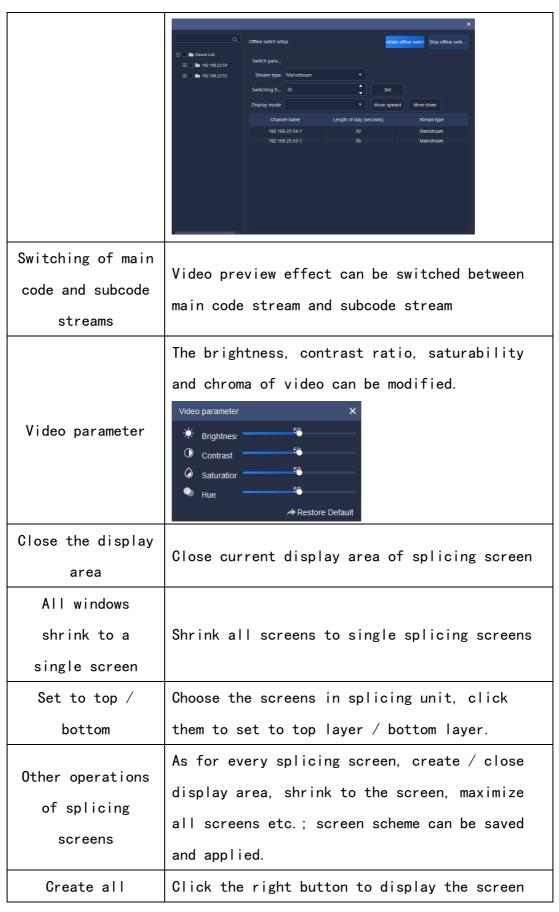


Figure 5.6.1.3

The relevant icons and parameters on the interface are described below:

Parameter	Description
Turn off the	Close the video preview on current splicing
video	screen.
Audio pre-view	Preview the audio effect of current splicing
	screen.
Decoder audio	Dienlay audia an deceder
preview	Display audio on decoder.
Decoder offline	It is permitted to set video switching of
switch	current splicing screen window.



display areas	area in all splicing units
Close all display	Click the right button to close the screen
areas	area in all splicing units
Zoom to a single	Choose the screens in splicing unit, click to
screen	shrink them to a screen.
Zoom to occupied	Choose the screens in splicing unit, click to
screen	spread them on the screen fully.
Maximize to all	Choose the screens in splicing unit, click to
screens	spread them on all splicing units.
	Click the right button to save display scheme
	of screen areas in all current splicing units.
Save screen	Save screen scheme X
scheme	Project name
	Save
	Click the right button to apply existing screen
	scheme to the current splicing unit.
	Application screen scheme X
Application	Serial number Project name 1 Test1
screen scheme	
	Delete application

Table 5. 6. 1. 3

5. 6. 1. 2. **Device list**

Same as Real-time preview.

5. 6. 1. 3. View

Same as Real-time preview.

5. 6. 1. 4. PTZ Control

Same as Real-time preview.

5. 6. 1. 5. Advanced Function

Same as Real-time preview.

5.6.2. TV wall configuration

Wall layout can be configured on the TV wall configuration page. Click the button to enter the name of TV wall layout and then click "OK". In this way, the name of TV wall layout can be added as shown below:



Figure 5. 6. 2. 1

The current name of TV wall layout can be modified by clicking the button . After clicking "OK", the name of TV wall layout can be modified as shown below:



Figure 5. 6. 2. 2

To delete a TV wall layout, choose a layout name and click the button . The layout data cannot be recovered after the layout is deleted. Therefore, there is a prompt box for your confirmation. Click "Yes" button to delete the current TV wall layout; click "Cancel" to retain the TV wall layout, as shown below:

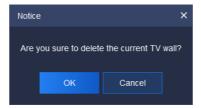


Figure 5. 6. 2. 3

After setting the name of TV wall, click the lower configuration list to configure TV wall layout. It supports 1 screen, 4 screens, 9 screens, 16 screens and user-defined screen settings. At the same time, every screen can be adjusted, such as left justifying and right justifying. The parameters and description are shown below:

Parameter	Description
>	Binding: tick "Decoding output channel" in equipment list, tick TV wall screen on the right and click it to bind the current decoding output channel with the screen.
<	Unbinding: choose TV wall screen on the right and click it to unbind the current decoding output channel with the screen.
	Add 1 screen
	Add 4 screens
	Add 9 screens
	Add 16 screens
×	Define the rows of screens
××	Click to choose the screen to be deleted

	Clear screens: delete all the screens on current
Ш	TV wall.
=	Left justifying: choose two screens at least
	and click to justify to the left side of the
	first screen chosen.
	Right justifying: choose two screens at least
=	and click to justify to the right side of the
	first screen chosen.
	Top justifying: choose two screens at least and
017	click to justify to the top side of the first
	screen chosen.
	Bottom justifying: choose two screens at least
<u>01↓</u>	and click to justify to the bottom side of the
	first screen chosen.
	Equalize size: choose two screens at least and
	click to equalize size with that of the first
	screen chosen.
	Splicing: choose two screens at least and bind
	decoding output channel. The splicing shapes
8	shall be regular (such as rectangle). Click to
	splice successfully.
	Cancel splicing: choose the spliced screens and
N ×	click to cancel the splicing.
(100)	Save: Click the button after setting TV wall.
	In this way, the TV wall screen layout can be
	saved.

Table 5.6.2.1

Wall resolution can be configured on TV wall configuration page as

shown below. There are three resolutions: $1920\times1080~50$ HZ, $1920\times1080~60$ HZ and 4K 30HZ. If 4K 30HZ is set, decoding can be output from only one route.

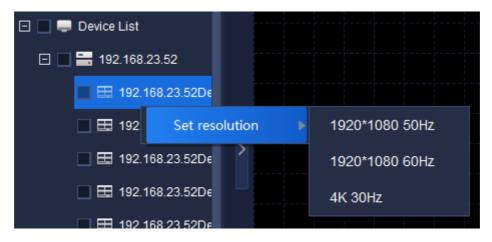


Figure 5. 6. 2. 4

5.6.3. Offline switch setup

Offline switch configuration is used for TV wall screen switch setting on decoder, as shown below. Code stream type, switch time and display mode of every decoding output channel can be set.

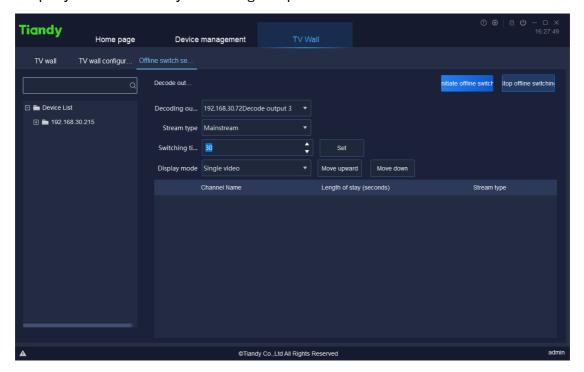


Figure 5. 6. 3. 1

Choose decoding output channel and set display mode (such as sixteen screens) as shown below.



Figure 5. 6. 3. 2

Choose the equipment from the left equipment list for offline switch and drag the equipment to the channel. In this way, equipment can be added to the screen. As shown below, click "nitate offline switch;" at top right corner to start offline switching, or click the right button on screen list to start offline switching. One channel cannot be added to any screen repeatedly.

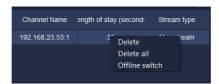


Figure 5.6.3.3

Choose the channels on screen, modify code stream type, switch time and sequence of channels on screen in above decoding output setting.

Relevant parameters on the interface are described below:

Parameter	Description
Initiate offline	Click to enable and start it to watch decoding
switch	video of the output channel on decoder.
Stop offline	Click to enable and start it to stop playing

switching	the decoding video.
Decoding output channels	The equipment supports several decoding output
	channels. Video effect of every decoding output
	channel can be set for actual need.
	Set code stream type of channels added to each
	screen. Choose the channels whose code stream
	type shall be changed from the following screen
Stroom type	list, then choose code stream type from the
Stream type	drop-down box of code stream types. In this way,
	code stream can be switched.
	Note: Before changing code stream type, it is
	necessary to stop offline switching firstly.
	Set the interval of screen switching (unit:
	second) in range 10 seconds ~ 1000 seconds. The
	interval shall be integer. Choose the channel
	whose switching time needs to change. After
Switching time	changing switching time, click the button
	" set " to update duration of screen stay.
	Note: Before changing switching time, it is
	necessary to stop offline switching firstly.
	Set the screen display mode of decoding output
	channel, such as single screen, screen in
	screen, four screens, 1-5, 1-7, nine screens and
Display mode	sixteen screens. 1-5 screen means 1 large screen
Display mode	and 5 small screens; 1-7 screen means 1 large
	screen and 7 small screens. The sequence of
	channel screens is in accordance with the
	sequence of addition. To change the sequence,

choose channel firstly and adjust screen sequence by pressing "Move upward" or "Move down" Note: Before changing channel display mode, stop offline switching firstly.

Table 5. 6. 3. 1

5.7. Face recognition

Click the face recognition icon, on homepage to enter the interface of face recognition for face database management, face database download and face configuration as shown below:

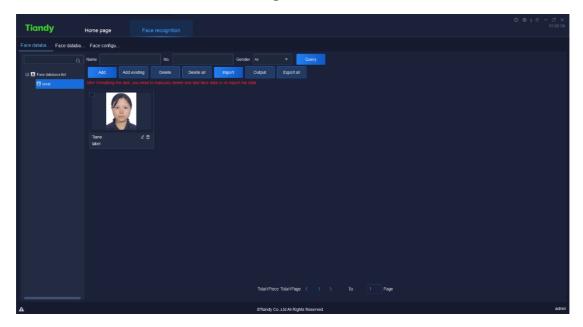


Figure 5.7

5.7.1. Face database management

5.7.1.1. Personnel Query

Personnel can be inquired based on name, serial number and gender.

5.7.1.2. Face Database Addition / Modification / Delete

1) Face database addition

Click the right button on left "Face database list", choose

"Add" to create a new face database as shown below:

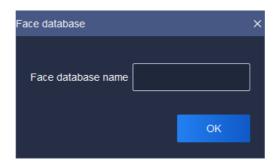


Figure 5.7.1.1

Enter name of face database and click "OK" button to create a new face database. The name of face database is exclusive.

2) Face database modification

Click the right button on the name of face database to be modified, choose "Modify" enter a new name and click "OK" button to complete the modification.

3) Face database delete

Click the right button on the name of face database to be deleted, choose "Delete" and click "OK" button to delete the face database.

5.7.1.3. Face Image Addition

Choose the face database that needs face image addition, click "

Add " to add face image as shown below:

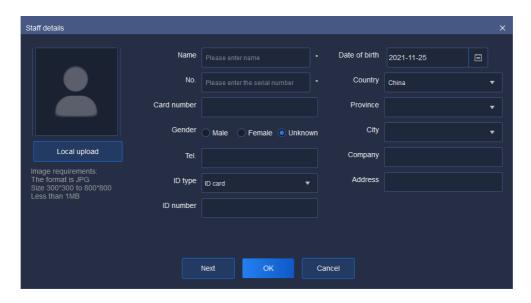


Figure 5.7.1.2

Click "local upload" to upload face image (required item). Image format shall be JPG and the dimensions shall be 300*300~800*800; the size shall not be larger than 1MB. The image shall be clear enough for easy face recognition.

Enter name of the image (required item).

Enter corresponding serial number of the person (required item). The serial number can be 0^{\sim} 999999999.

Other items are not required and can be filled in for actual demand.

Click " to save information of the current person and create a new page of person information.

Click "ok "to maintain current personnel information and close the page.

Click " cancel " to close the current page of personnel information.

5. 7. 1. 4. Add Existing Face Image

Choose a face database, click "Add existing" and choose the personnel

to be added as shown below; click " ok omplete the addition.

The page of current personnel can be closed by clicking "Cancel"



Figure 5.7.1.3

5. 7. 1. 5. Delete (AII) Face Image(s)

Choose the face image to be deleted, click "Delete all face images, click "Delete all ". to delete

5.7.1.6. Face Image Import / Export / Export All

1) Import

Click "Import of enter the import page as shown below. Click "download import template" to download template of personnel information.

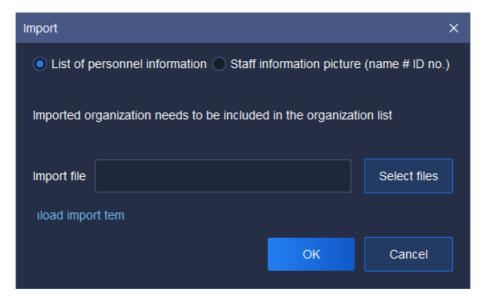


Figure 5.7.1.4

Fill personnel information in the template as shown below:

Attentior	Use the	t													
Personnel	Serial n	Card numb	Gender (phone num	Birthday	Country	Province	City	Address	Company	ID type	ID number	Image pa	Face lib	rary name
Zhang Sar	123	6666	Female	123456789	2000-01-1	China	Tianjin	Tianjin	Xiqing Di	**** Co.,	ID card	120111200	C:/FacePi	Face dat	abase

Figure 5.7.1.5

Tick "personnel information sheet" or "personnel information image (name # job number)", click "selectfiles" to import file, click "OK" to upload the file; click "cancel" to close the page.

5.7.2. Face database download

Choose the channel of face database download from left "equipment list" (the channel shall support face recognition).

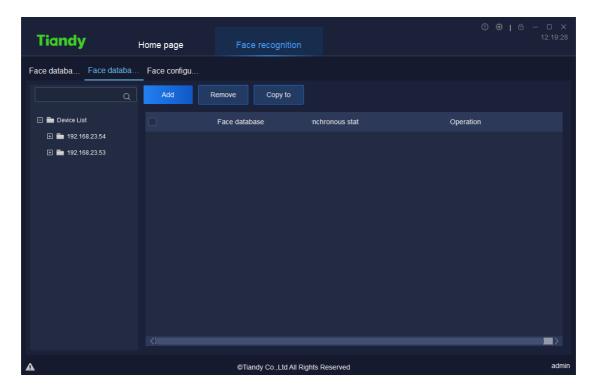


Figure 5.7.2.1

Click "Add" to choose a face database to be synchronized, then click "OK" as shown below.

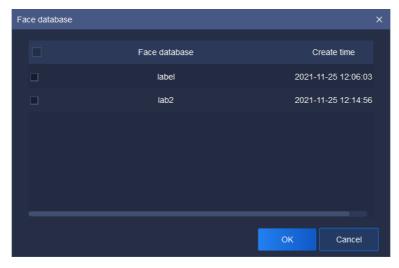


Figure 5.7.2.2

Status and result of synchronization can be seen on current page.

If the synchronization fails, click "operation result" on "operation" page to find information of synchronization failure as shown below. If you want to try synchronization again, choose the content to be

synchronized and click " ".".



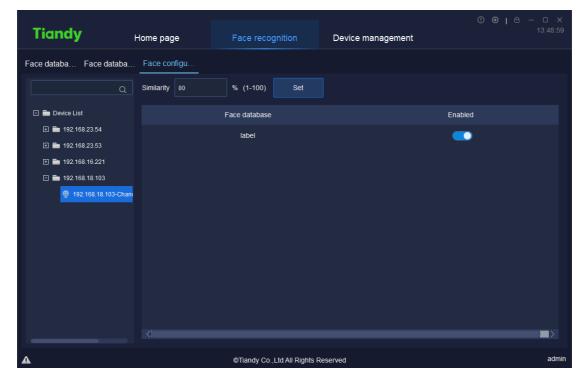
Figure 5.7.2.3

Click "Remove" to delete the current face database in current channel.

Click "Copy to "to copy it to other channel.

5.7.3. Face configuration

On the page of face configuration, face database can be started for current channel; face similarity can be set as shown below.



5.8. Inlet and outlet management

5.8.1. Checkpoint preview

Real-time captured image at checkpoint in current monitored area can be seen on the page of checkpoint preview as shown below.

Information of vehicle can be found.

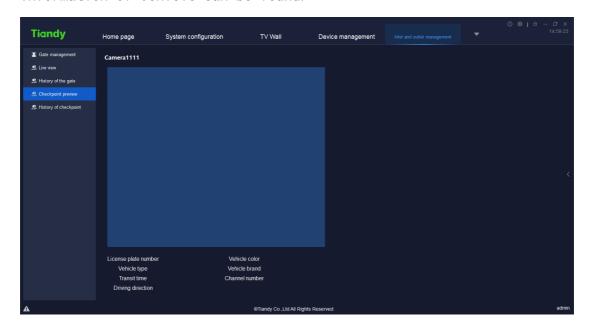


Figure 5.8.4.1

Click the right "C" to unfold equipment list, set real-time equipment preview sequence and the equipment shown. As shown below, choose the equipment to be moved, click "Move upward or or to change the sequence.



Figure 5.8.4.2

5.8.2. History of checkpoint

Access area, license plate number and access time can be searched on the page of checkpoint history as shown below.

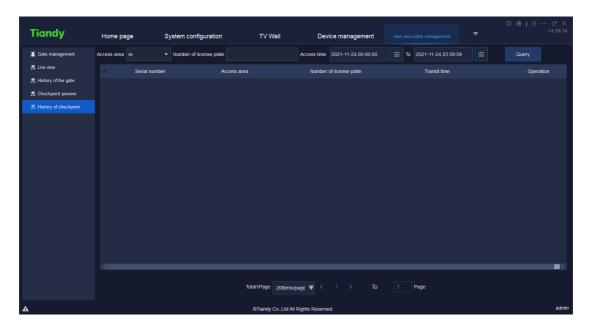


Figure 5.8.5.1

Click "View" to find access information of the vehicle as shown below.

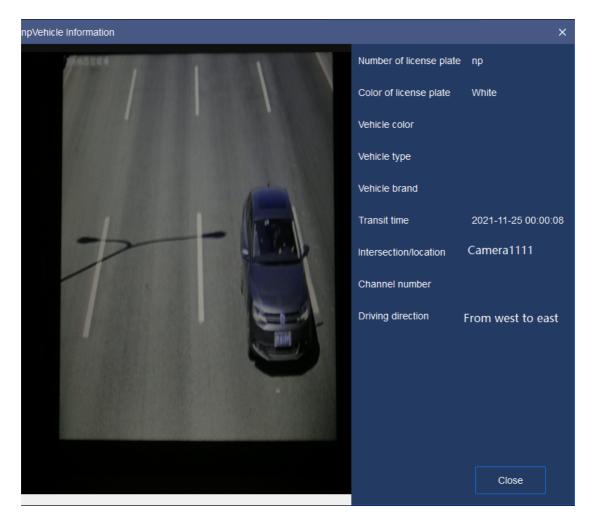


Figure 5.8.5.2

5. 9. Electronic Map

Click the electronic map icon on homepage to enter the page of electronic map management and operation as shown below.

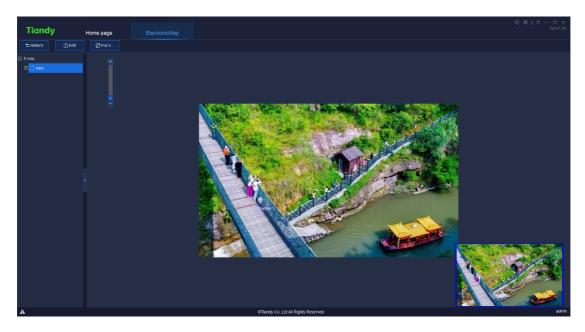


Figure 5.9

Drag the image manually or operate mouse wheel to change position of the image or zoom it in.

5.9.1. Electronic Map Configuration

Click "to configure the electronic map as shown below:



Figure 5.9.1

5. 9. 1. 1. Add Map

Click "+Add...", as shown below, enter map name and choose route of map, click "OK" to save the current map; or click "cancel" to close the current page.

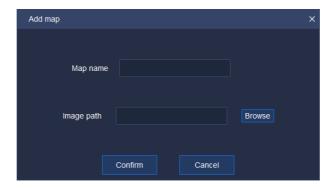


Figure 5.9.1.1

5. 9. 1. 2. **Delete Map**

Choose an electronic map from right list of maps, click "Delet..." and there will be a prompt dialog box as shown below. Click "Yes" to delete the electronic map; or click "cancel" to close the prompt dialog box and the map will not be deleted.

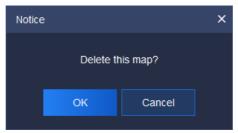


Figure 5.9.1.2

5. 9. 1. 3. Modify Map

If you want to modify map name or the base map, you can click "Lambda Modified", as shown below, click "OK" to save the current map; or click "cancel" to close the current page.

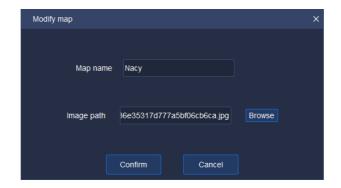


Figure 5.9.1.3

5. 9. 1. 4. Add / Delete Equipment

In the self-defined equipment list on the right of edit interface, choose the equipment to be added to the electronic map, drag it to the area that needs the equipment. In this way, data collection channel can be added. Drag channel equipment icon "•" to change addition position.

Add alarm two nodes, including alarm input "and alarm output" in electronic map and the input node will lash upon receiving the alarm of alarm input; cancel alarm "clear alarm" via the right key menu. Alarm output can be used for controlling two status

Open alarm output

Close the alarm output

of alarm output on and off via right key menu.

If the equipment was added, "added already" will be prompted as shown below.

Q Channel 6 Added

To delete equipment, choose the equipment and click the right button on "Delete devices"; or choose the equipment in the left list of electronic maps, click "EDelet..." to delete the equipment on the

current electronic map.

5. 9. 1. 5. Configure Hot Zone

Click "Confine" to link other electronic maps on the current electronic map as shown below. Tick the left electronic map and click "Import" to add the electronic map to the right linked area; or click "Export" to move back electronic map from right linked area to area of electronic map. Click "OK" to show the hot zone icon "" on current electronic map. Drag it to set position of hot zone anew. Or click "cancel" to close the current page.

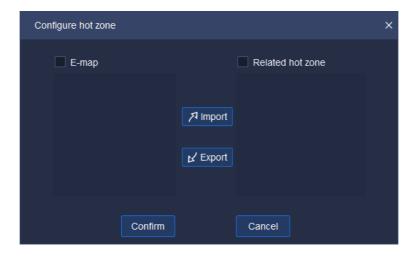


Figure 5.9.1.4

To delete the hot zone, choose it and click right button on "Delete hot zone". In this way, the hot zone can be deleted from current electronic map.

5.9.2. Electronic Map Preview

Click "EPreview " to preview current electronic map as shown below.



Figure 5.9.2.1

On the page of electronic map preview, the image can be dragged manually to change its position; or operate mouse wheel to zoom in.

Click " to preview the image on the whole screen.

Click " → Return " to return to the last step.

5. 10. User management

Click the user management icon on home page to enter user management interface. The interface will display the basic information of all added users at that moment, as shown in below figure:

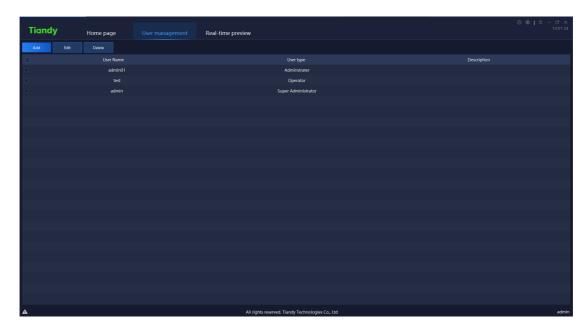


Figure 5.10

[Note] Only admin-super administrator account has the authority to enable this function.

5. 10. 1. Add user

Click " to enter Add user interface, as shown in below figure:

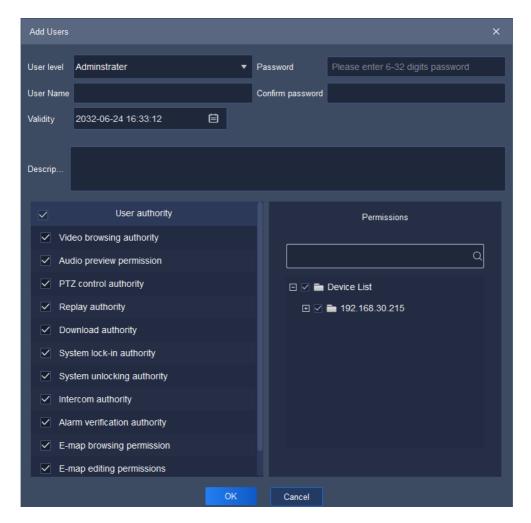


Figure 5.10.1

The description of related parameters in the interface is as follows:

Parameter	Description						
User level	Set administrator or operator for current						
	system.						
User name	Users to fill in any name.						
	【Note】 There's illegal character limit when						
	adding user name, following characters are not						
	allowed to be input $"!#$\%^()=[]{}, ":;'<>?*`+/\&.$						
Password	To set password for newly added user.						
Confirm password	Needs to be the same as input "Password".						

Validity	Set the expire date of the authority for users.					
Description	Supplement and describe user information.					
User authority	Set the user authority of administrator or operator, such as the authority of video browsing, audio preview authority, PTZ control, video playback, video download, system lock, system delock, intercom, alarm check, etc.					
	System de rook, Titter com, ararm check, etc.					
Permissions	Set devices permit user authority to apply.					

Table 5.10.1

Note: Audio preview authority is mainly used for controlling the playing of all audios in the control platform.

- (1) Audio preview authority, cloud platform control authority, video playback authority and video downloading authority are based on view preview authority. In other words, if any one of video preview authority, cloud platform control authority, video playback authority and video downloading authority of one channel needs starting, start video preview authority first;
- (2) Talkback authority is based on audio authority. Talkback authority of the host can be enabled, when audio authority of at least one channel under such host has been enabled;

5. 10. 2. Edit user

Select the user needs to be edited, click "Edit " to enter Change users interface, as shown in below figure:

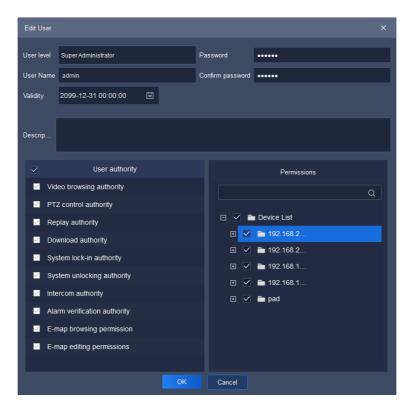


Figure 5.10.2

In the editing interface, the related information of the user can be changed, including user level, user name, validity, password, description, user authority and permissions. Admin-super administrator can only change password.

5. 10. 3. **Delete** user

Select the user needs to be deleted, click "Delete" and a notice box will pop up, as shown in below figure:

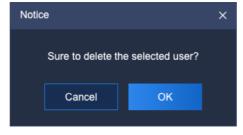


Figure 5.10.3

Click "OK" to delete the selected user; click "Cancel" to cancel deletion.

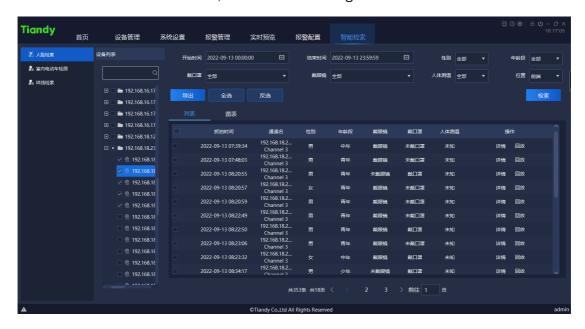
[Note] Several users can be deleted at the same time.

5.11. Intelligent search

Click the intelligence retrieval icon on home page to enter the intelligence retrieval interface.

5.11.1. Face retrieval

Enter the "Intelligent search" interface, and select "Face retrieval" in the rightmost bar to display related functions and contents in the left area, as shown in Figure 5.11.1:



! Note: Retrieving by starting and ending time, gender, age group, wearing a mask or not, wearing glasses or not, abnormal or normal body temperature, and query location is supported.

Figure 5.11.1.

5.11.2. Setting retrieval conditions

Taking the front-end query as an example, users may select any channel among watch points on the left, set query condition and click

supported.

Click "List" to display the retrieval results in a list, including capture time, channel name, gender, age group, wearing mask or not, wearing glasses or not and body temperature measurement. Click "Details" to check the detailed information of captured picture, as shown in Figure 5.11.2.1 below, and click "Playback" to check playback video.

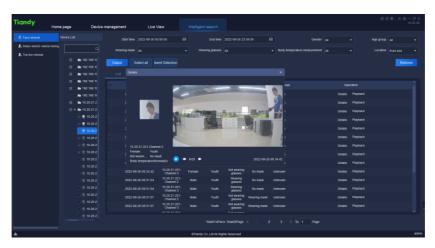


Figure 5.11.2.1

Click "Figure" and the retrieval result will be displayed in figure, the detailed information of captured picture and playback information will be checked, as shown in Figure 5.11.2.2 below:

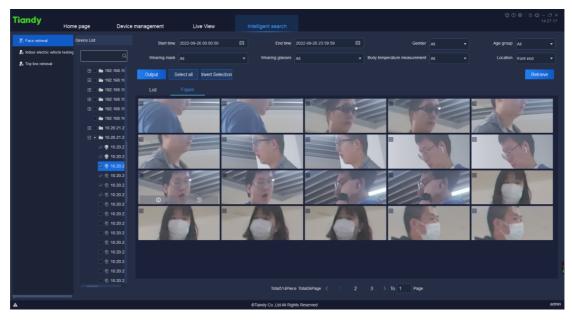


Figure 5.11.2.2

Select any data in the retrieval result and click "output" to download this data result to local device, the exported result is shown as in Figure 5.11.2.3 below:

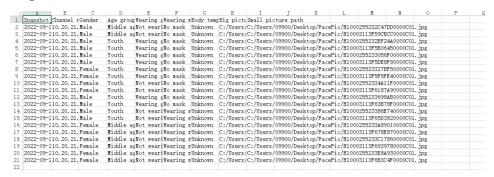


Figure 5.11.2.3

In the context of local query, click "Exportal" to export all retrieved results.

5.11.3. Trip wire retrieval

Operation steps:

Step 1: Users may select equipment that supports the algorithm from left watch points, set query condition and click "Retrieve" to retrieve the detailed information recorded by this watch point in the time period, both list and figure display form are supported, as shown in Figure 5.11.4.1:

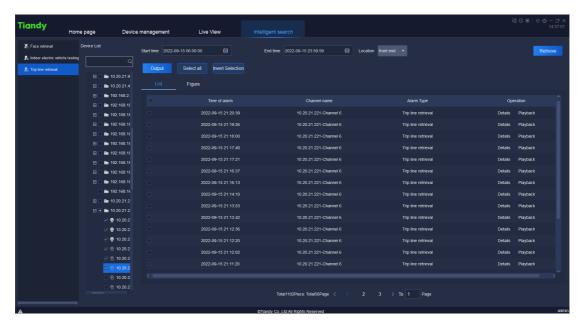


Figure 5.11.4.1

- Step 2: Click "List" to display the retrieval results in a list, including capture time, channel name, alarm type etc.
- Step 3: Click "Details" to check the detailed information of captured picture, as shown in Figure 5.11.4.2 below, click "Playback" to check playback video.

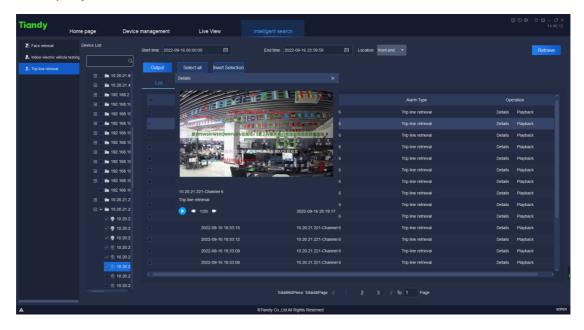


Figure 5.11.4.2

- Step 4: Click "Figure" and the retrieval result will be displayed in figure, the detailed information of captured picture and playback information will be checked.
- Step 5: Select any data in the retrieval result and click

 "Output" to download this data result to local device.

! Note: Retrieving by start and end time is supported during trip wire retrieval.

5. 12. Data statistics

Click the data statistics icon on home page to enter the data statistics interface.

5. 12. 1. Face statistics

Face statistics supports to carry out statistics by age group, by gender, by the number of people, by whether wear glasses, by whether wear mask and by body temperature measurement.

5. 12. 1. 1. Statistics by age group

According to age group, the face statistics can be divided into junior, youth, middle age and old age to display. The platform supports list and graphic display, as shown in below figure.

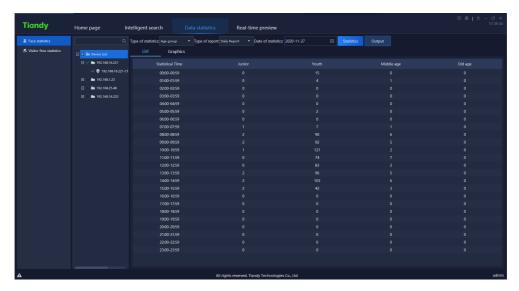


Figure 5.12.1.1

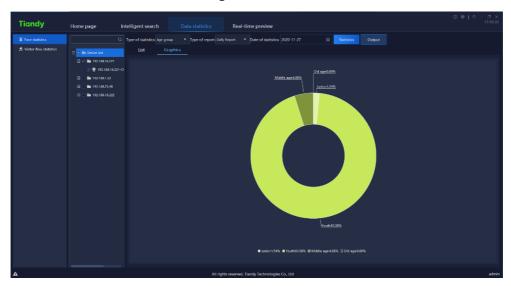


Figure 5.12.1.2

5.12.1.2. Statistics by gender

According to gender, the face statistics can be divided into male, female and unknown to display. The platform supports list and graphic display, as shown in below figure.

[Note]: When the device detects people shape but does not detect face, it will display "unknown".

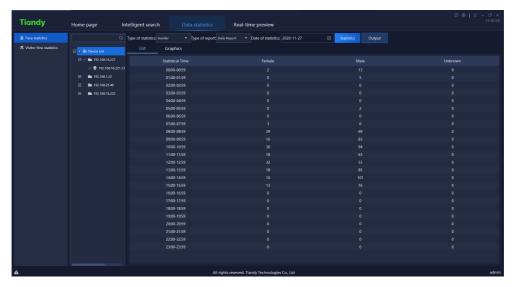


Figure 5.12.1.3

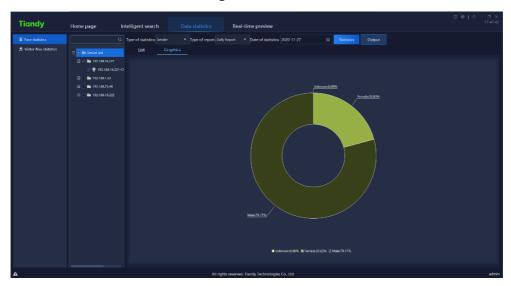


Figure 5.12.1.4

$5.\,12.\,1.\,3.$ Statistics by the number of people

The statistics of the number of people every hour in face statistics. The platform supports list and graphic display, as shown in below figure.

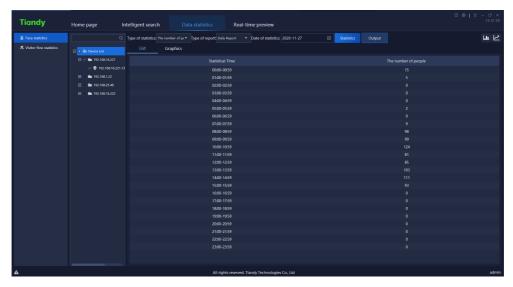


Figure 5.12.1.5

In graphic interface, click " to switch to line chart display,

click "to switch to bar graph display.



Figure 5.12.1.6

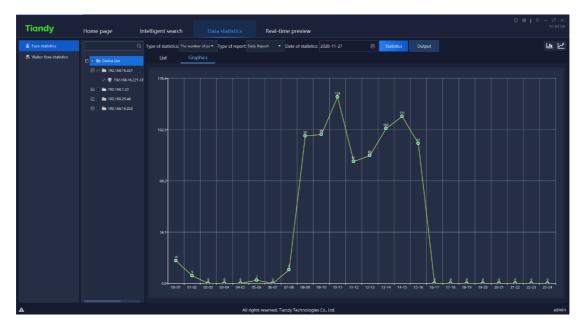


Figure 5.12.1.7

$5.\,12.\,1.\,4.$ Statistics by whether wearing glasses

The statistics of whether wearing glasses in face statistics, can be divided into not wearing glasses and wearing glasses to display. The platform supports list and graphic display, as shown in below figure.

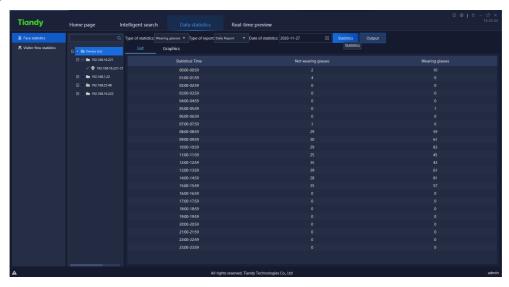


Figure 5.12.1.8

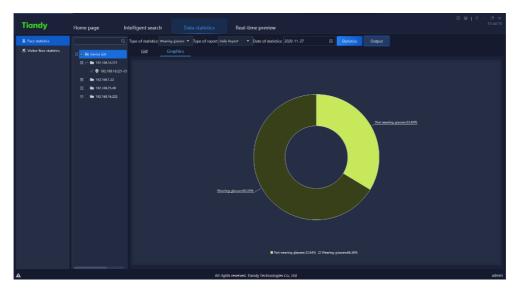


Figure 5.12.1.9

5.12.1.5. Statistics by whether wearing mask

The statistics of whether wearing mask in face statistics, can be divided into no mask and wearing mask to display. The platform supports list and graphic display, as shown in below figure.

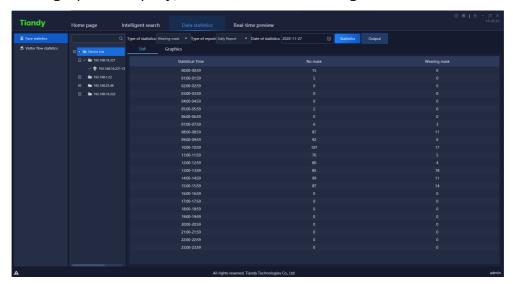


Figure 5.12.1.10

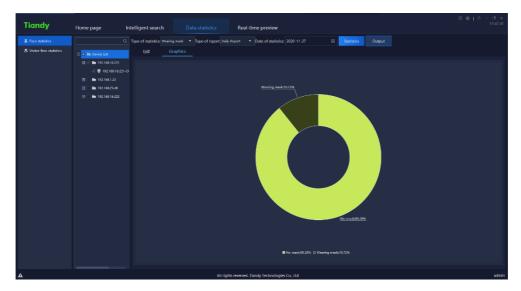


Figure 5.12.1.11

5. 12. 1. 6. Statistics by body temperature measurement

The face statistics will conduct statistics of the number of people with abnormal body temperature every hour by time. The platform supports list and graphic display, as shown in below figure.

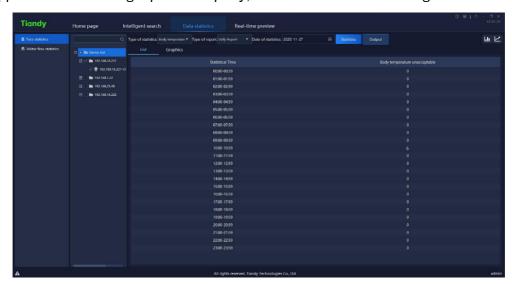


Figure 5.12.1.11



Figure 5. 12. 1. 12



Figure 5. 12. 1. 13

5.12.2. Visitor flow statistics

Guest flow statistics supports two methods namely real-time statistics and report statistics. Real-time statistics can monitor the real-time guest flow according to the established area, and give an alarm when the number of person hikes too much; the report statistics can count the number of people entering, leaving and passing by in the established area, and display them with a list or a graph, as is shown in below figure:

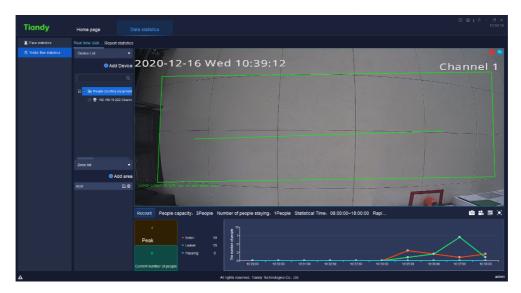


Figure 5. 12. 2. 1

5. 12. 2. 1. Real-timeStatistics Device List

Enter the device list bar, type in the key information in the search box, and double-click to locate the guest flow equipment, as is shown in below figure:

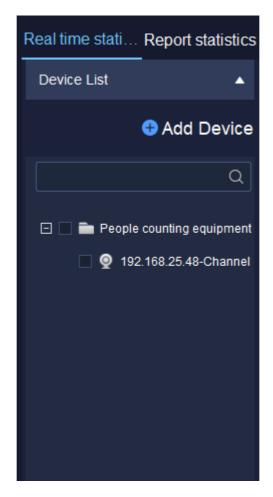


Figure 5. 12. 2. 2

Select the device in the guest flow device list and right-click to pop up the right-click menu of guest flow device list, as is shown in below figure:

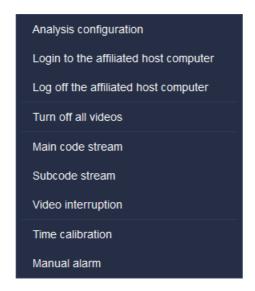


Figure 5. 12. 2. 3

Select "Analyse Config." to enter configuration tool page to view the configuration of each present channel, as is shown in below figure:

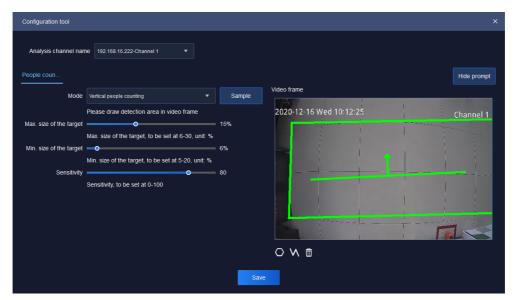


Figure 5. 12. 2. 4

Relative parameters explanation of the interface is as below:

Parameters	Explanation					
Analysis channel	Switch channels and analyse the configuration of					
name	each channel.					

	Read the algorithm supported by the front-end				
Mode	device and draw it in the right video frame or				
	directly in the video frame.				
Sample	Display the effect sketch shown in the video box.				
Max. Size of the	Display the maximum size of the target, and the				
target	range can be set from 6% to 30%				
Min. Size of the	Display the minimum size of the target, and the				
target	range can be set from 5% to 20%				
	Set the detection sensitivity. The higher the				
Sensitivity	sensitivity, the more sensitive it is. The range				
	can be set from 0 to 100.				
Video frame	Display the video and its algorithm under the				
video irame	channel.				
Hide prompt	Hide the prompts in the configuration information				
Hide prompt	on the left.				
0	Redraw the statistical area in the video graph.				
W	Redraw the statistical lines in the video graph.				
1	Eliminate the lines.				

Table 5. 12. 2. 1

Other right-click menu button 5.2.1 device list.

Click "Add Device" in device list to enter guest flow camera configuration page, as is shown in below figure:

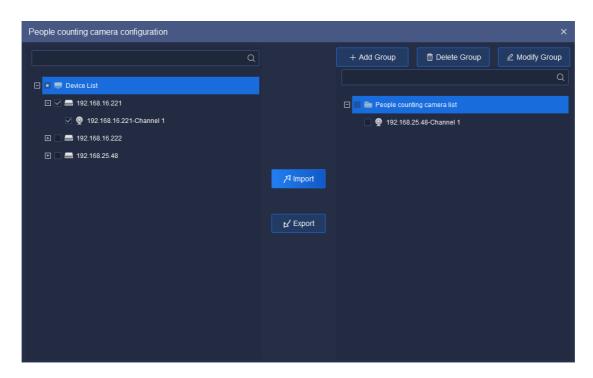


Figure 5.12.2.5

Relative parameters explanation of the interface is as below:

Parameters	Explanation				
⊅ Import	In the left device list, select the device or device channel. In the right guest flow camera list, select a group, and click to add the device or device channel to the guest flow camera group.				
	In the right guest flow camera list, select a group or device channel, and click to delete the group and its device channel or device channel from the guest flow camera list.				
+ Add Group	In the right guest flow camera list, select the node and click to add the guest flow group.				
f Delete Group	In the right guest flow camera list, select a group and click to delete the guest flow group.				
∠ Modify Group	In the right guest flow camera list, select the node and click to modify the guest flow group name.				

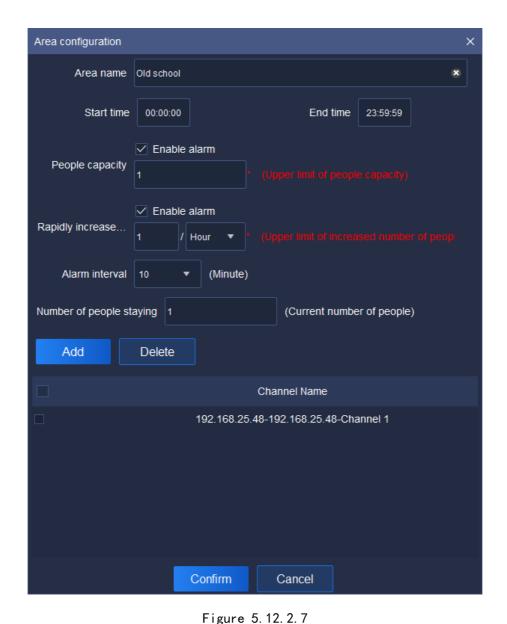
5. 12. 2. 2. Real-time Statistics Area List

Enter the area list to shift area scene, as is shown in below figure:



Figure 5. 12. 2. 6

In the area list, click "in" to delete established area, click "I" to update the configuration information of present area, click "Add area" to enter the area configuration page to set information of area detection time, capacity, number of people surge, whether or not to enable alarm, detection device channel, etc, as is shown in below figure:



Relative parameters explanation of the interface is as below:

Parameters	Explanation
Area name	Set the name of the detection area to facilitate
	the rapid positioning of the area.
Start time/End	Set the time of starting and finishing of
time	statistics.
People capacity	Set the upper limit of the capacity. This is
	required.

Rapidly increased number of people	Set the upper limit of the increase of the number of people in the unit time (10 minutes, 30 minutes, 1 hour, 2 hours). This is a required field.
Alarm interval	Set alarm interval, supporting 10, 20, 30, 40, 50, 60 minutes.
Number of people staying	Set the current number of existing people.
Add	Set the detected channel video to be detected. Multiple channel videos adding is possible.
Delete	Select the channel video to be deleted. Multiple channel videos deletion is possible.

Table 5. 12. 2. 3

5. 12. 2. 3. Real-time Data of Real-time Statistics

Select the area to be viewed in the area list, and the configuration information of the area can be viewed at the bottom of the interface, as is shown in below figure:



Figure 5.12.2.8

Relative parameters explanation of the interface is as below:

Parameters	Explanation
Recount	Click to eliminate the recorded number of people.
Peak	Record the maximum number of people in current
	area.

	Record the number of people at current time. If
Current number of	the number exceeds the one that can be
people	accommodated, it will turn into a red box;
	otherwise, it will be a green box.
Enter/Leave/Passing	Record the number of people in three status namely
	entering / leaving / passing by. At the same time,
	the color of each case is distinguished. Red
	colour represents entering, green leaving, and
	blue passing by.
	The number of people is displayed in real time
Real-time Line	according to minutes. Red represents entering,
Chart	green represents leaving, and blue represents
	passing.
©	Capture, capture picture save path can be changed
	from [system settings] > [common settings] > [path
	settings].
***	Start all videos. The video download and save path
	can be changed from system Settings > Common
	Settings > Path Settings.
	Set the number of pictures, supporting picture
	display amount 1, 4, 9, 36, 49, 64.
[•]	Full screen, full screen display of video page and
	real-time data page. Click again to cancel the
	full screen.

Table 5. 12. 2. 4

5.12.2.4. Video Page of Real-time Statistics

View the video effect of real-time preview in video page, as is

shown in below figure:

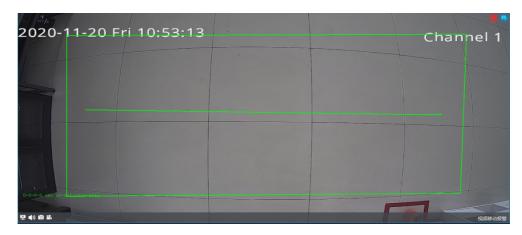


Figure 5.12.2.9

Refer to 5.2.2 Video Preview Window for page-related parameters. :

5.12.2.5. Report statistics

On the report statistics page, count the number of people in a selected area. It supports the statistics of the number of people entering, leaving and passing by according to the detailed time, as is shown in below figure:

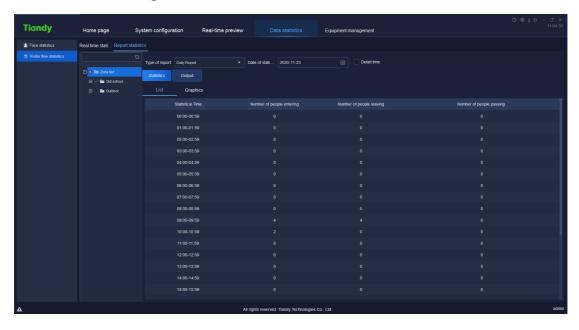


Figure 5. 12. 2. 10

Select the report type and statistical time. If statistics need to be made according to the detailed time, enable the "detailed time" check box, and the statistics of the number of people in the detailed period will be displayed during the statistics. Click "export" to export the statistical data to the machine, as is shown in below figure.

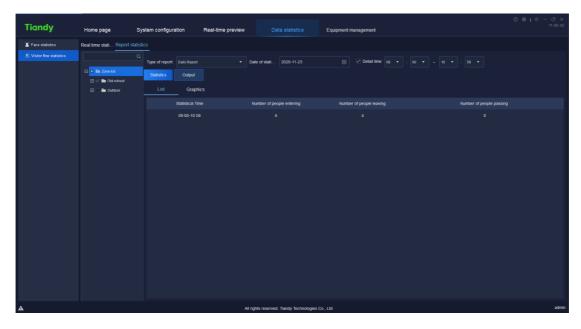


Figure 5. 12. 2. 11

The data can be displayed in the two forms namely list or graph.

The graphic form supports line chart and bar chart, as shown in below figure:

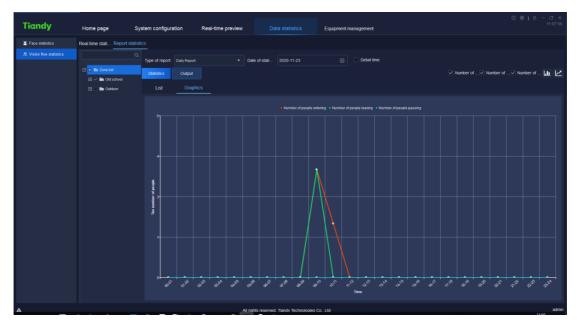


Figure 5. 12. 2. 12

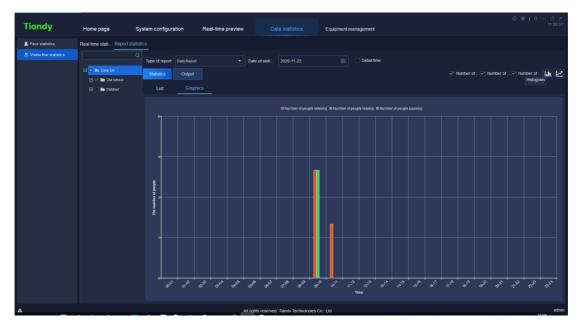


Figure 5.12.2.13

5.13. Alarm configuration

Click the alarm configuration icon on home page to enter the alarm configuration interface. To conduct alarm configuration on watch point and device respectively is supported.

5.13.1. Alarm configuration of watch point

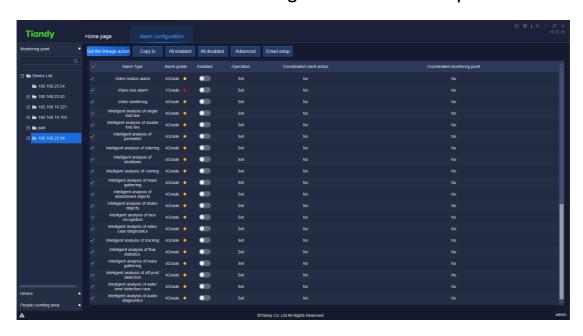


Figure 5.13.1.1

Select the channel needs alarm configuration in the watch point on the left, tick and select required alarm type, set whether to enable "Set coordinated action" to set the operation of coordinated alarm or coordinated recording in corresponding alarm type, as shown in below figure:

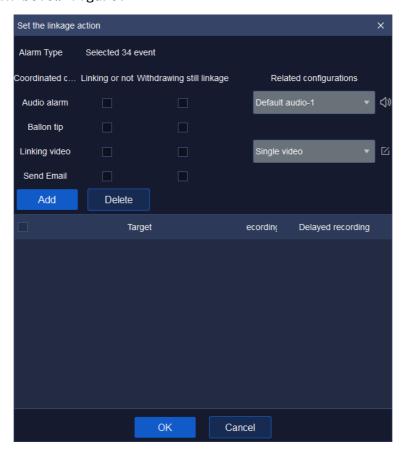


Figure 5.13.1.2

Note: Set linkage under defense deployment status by ticking "link or not". Linkage will take effect under defense withdrawal status by ticking "link or not" and "defense withdrawal enabled" at the same time.

5. 13. 1. 1. Set coordinated alarm

Tick and select the check box ahead of "Audible alarm", select alarm audio effect in the drop-down list, customized alarm audio

supported (supported audio format is .wav), alarm audio audition supported.

5. 13. 1. 2. Set coordinated recording

Click Add and set "Coordinated monitoring point", as shown in below figure:

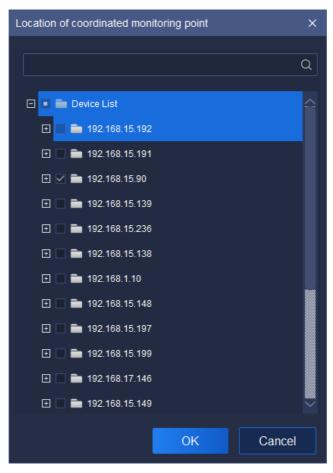


Figure 5.13.1.3

Select the channel needs to set recording, click "OK" to add the target channel of coordinated recording, click "Cancel" to restore to last parameter setting. Click the number below or "Advanced" to continue to set "Pre-recording" and "Delayed recording" time, as shown in below figure:

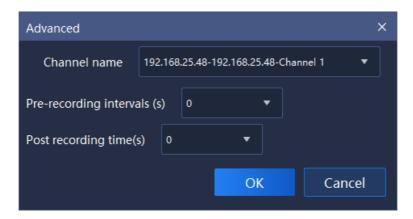


Figure 5.13.1.4

Pre-recording and delayed recording interval supports the time setting of Os, 5s, 10s, 15s, 25s and 30s, click "OK" to save time setting, click "Cancel" to restore to last parameter setting.

5. 13. 1. 3. Copy to other channel

Click and select the type of alarm, click "Copy to "to copy the parameter of Enabled status, Coordinated client action and Coordinated monitoring point of the selected copy to other channel, as shown in below figure:

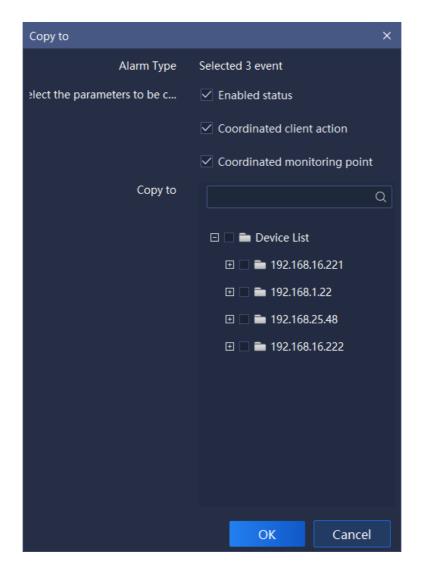


Figure 5.13.1.5

5. 13. 1. 4. All enabled/All disabled

Click "All enabled" or "All disabled" to enable/disable all types of alarm in the channel.

5.13.1.5. Email setup

Click "Email setup" button, and the E-mail can be configured. After the configuration is successful, the email alarm can be linked. As shown in the figure below:

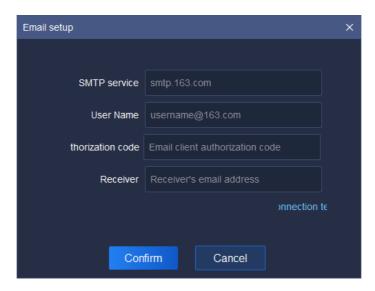


Figure 5. 13. 1. 6

Relative parameters explanation of the interface is as below:

Parameters	Explanation
SMTP service	Configure the E-mail server address.
User name	Configure sender E-mail name.
Thorization code	Configure sender E-mail authorization code.
Receiver	Configure the recipient E-mail address.
Connection testing	Verify that this method can connect
	successfully.

Table 5.13.1

5.13.2. Alarm configuration of the device



Figure 5.13.2.1

The specific operation is the same as the alarm configuration of monitoring point.

5.13.3. Alarm configuration of people counting area

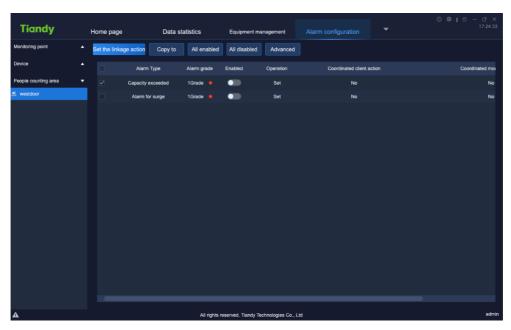


Figure 5.13.3.1

The specific operation is the same as the alarm configuration of monitoring point.

5.14.0peration logs

Click the operation log icon on home page to enter the operation log interface. Login log, operation log and configuration log query supported, as shown in below figure:

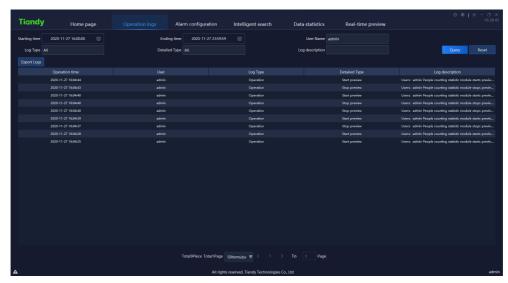


Figure 5.14

The description of related parameter in the interface is as follows:

Parameter	Description
Starting time	Available to set the starting time of log query.
Ending time	Available to set the ending time of log query.
User name	Available to query the operation record of one
	user. Admin-super administrator user may check
	the operation record of all users.
Log Type	Available to query logs by type, including all,
	login, operation and configuration.
Detail Type	Available to conduct detailed classified query
	of all, login, operation and configuration by
	type.

Log description	Search key word to query log information.
Export Logs	Click Export Logs, available to output and save
	logs.
Query	Click Query, available to query logs according
	to query conditions.
Reset	Click Reset, to restore query conditions to
	default status.
Total X Pages	Display how many pages does the query result has.
To X Page	Select a page to jump to the log record on that
	page.

Table 5.14

5.15. Video Player

5.15.1.0pen the player

Operation steps:

Click the "Video Player" icon (on the "Home" page to enter the "Video Player" interface. As shown in Figure 5.15.1:



Figure 5.15.1

5. 15. 2. Play Video

Operation steps:

Step 1: Click the " icon at the lower left corner of the interface to open the file selection interface, as shown in Figure 5.15.2 (1):

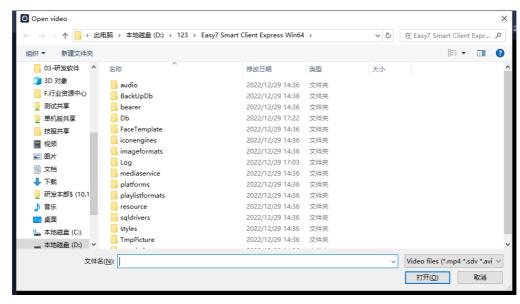


Figure 5. 15. 2 (1)

Step 2: Select the video file, click the interface open button, and start playing the video, as shown in Figure 5.15.2 (2) below:

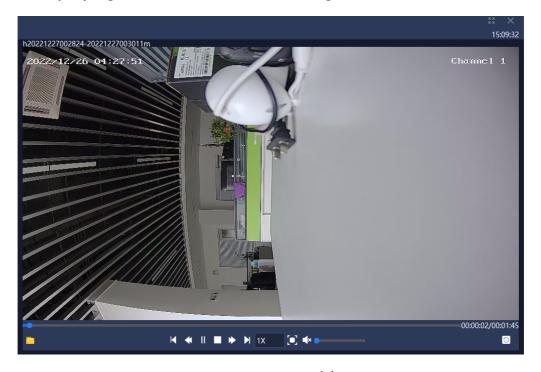


Figure 5. 15. 2 (2)

5.15.2.1. Switch video sound

Operation steps:

Step 1: Click the sound switch " button at the lower right corner of the interface to enable audio playback, and the sound switch button status is updated to " ...

Step 2: Drag the volume progress bar on the right of the sound switch to adjust the volume, as shown in Figure 5.15.2.1:

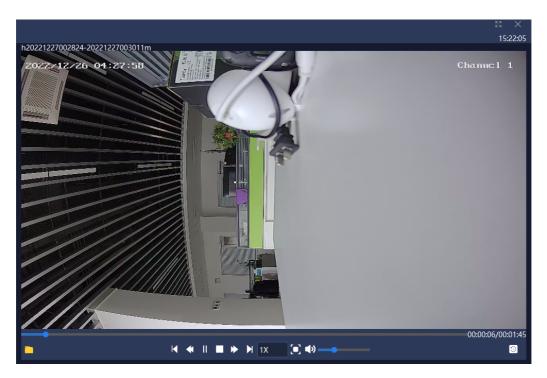


Figure 5. 15. 2. 1

5. 15. 2. 2. Video pause and play

Operation steps:

Step 1: Click the " " button to pause the video and update the button icon to " ", as shown in Figure 5.15.2.2 below:



Figure 5.15.2.2

Step 2: Click the "" button, and the video will resume playing.

5. 15. 2. 3. Stop Video

Steps to stop video:

Click " , the video will stop playing, and the video player will return to its original state, as shown in Figure 5.15.2.3 below



Figure 5. 15. 2. 3

5.15.2.4. Fast forward/slow forward

Operation steps:

Step 1: Click the " button to turn on the video fast forward function. The current playback speed is displayed at the bottom of the interface, which supports 1X, 2X, 4X, 8X, 16X speed playback, as shown in Figure 5.15.2.4 below:



Figure 5.15.2.4

Step 2: Click the " \checkmark " button to turn on video slow forward, and the current playback speed is displayed at the bottom of the interface, which supports 1/2X, 1/4X, 1/8X, and 1/16X speed playback, as shown in Figure 5.15.2.4 (1) below:



Figure 5. 15. 2. 4(1)

Step 3: Click the " was "button to select the playback speed. After the selection is completed, adjust it to the specified playback speed, and support playback at 1/2X, 1/4X, 1/8X, 1/16X, 1X, 2X, 4X, 8X, 16X speeds, as shown in Figure 5. 15. 2. 4 (2) below:



Figure 5. 15. 2. 4(2)

5.15.2.5. Single frame stepping

Operation steps:

Click the "D" button to enter the single frame step state. Each time the "D" button is clicked in this state, the video will play back one frame. As shown in Figure 5.15.2.5 below:

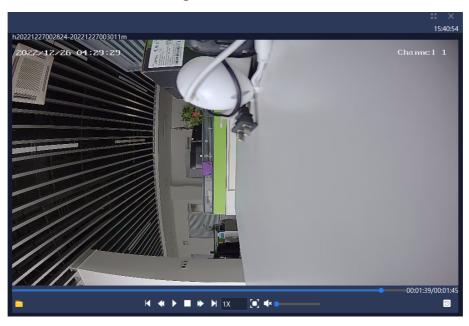


Figure 5.15.2.5

5.15.2.6. Single frame stepping back

Operation steps:

Click the " " button to enter the single frame step back state.

Each time the " button is clicked in this state, the video moves back one frame. As shown in Figure 5.15.2.6 below:

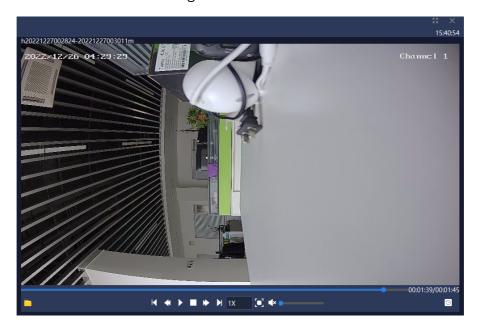


Figure 5.15.2.6

5.15.2.7. Full screen

Operation steps:

Step 1: Click the "S" button, and the video will enter the full screen playing state, as shown in Figure 5.15.2.7 below:



Figure 5.15. 2.7

Step 2: Click "ESC" on the keyboard to exit the full screen state.

Step 3: Click the video screen to call up the video operation bar, as shown in Figure 5.15. 2.7 (1) below:

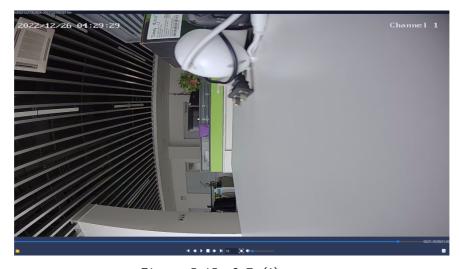


Figure 5.15. 2.7 (1)

5.15.3. Recent Browsing

Operation steps:

Step 1: Click " " to display the player history list, as shown in Figure 5.15.3 below:

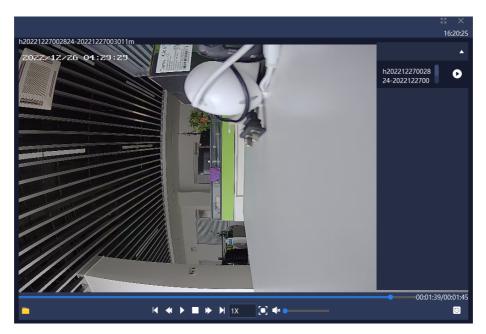


Figure 5.15.3

Step 2: Click the " • button in the history playlist to play the corresponding file. As shown in Figure 5.15.3 (1) below:

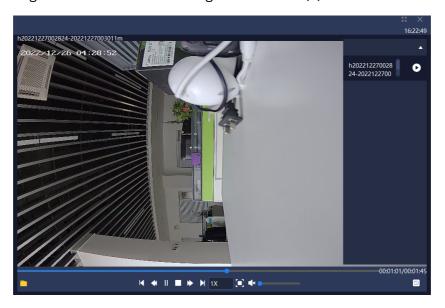


Figure 5.15.3 (1)

5.16 Heat map statistics

According to age group, the face statistics can be divided into junior, youth, middle age and old age to display. The platform supports list and graphic display, as shown in below figure.

Operation steps:

After entering the data statistics page, select "Heat Map Statistics" in the leftmost column to display its relevant contents and functions in the right sidebar.

Note: Heat map statistics support statistics according to space heat map and time heat map conditions.

5.16.1 Statistics by space heat map

Operation steps:

On the "Heat Map Statistics" function page, select "Statistics Type" -> "Space Heat Map" in the upper middle of the left column, and then you can make statistics according to the space heat map, as shown in Figure 5.16.1 below:

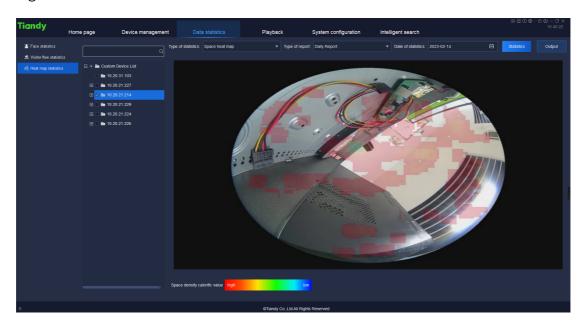


Figure 5.16.1

Note: According to the report type, the spatial heat map statistics can be divided into daily report, weekly report, monthly report and annual report for query. Click "Export" to save the query results.

5.16.2 Statistics by time heat diagram

Operation steps:

On the "Heat map statistics" function page, select "Statistics type" -> "Time heat map" in the upper middle of the left column, and then you can make statistics according to the time heat map, as shown in Figure 5.16.2 below:

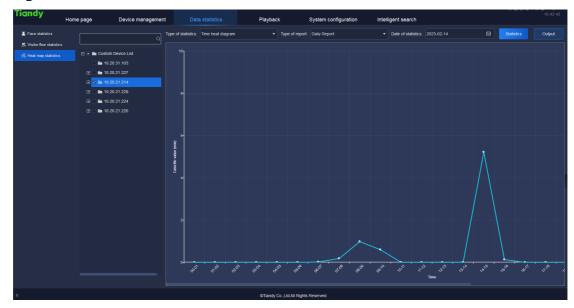


Figure 5.16.2

Note: According to the report type, the time heat chart statistics can be divided into daily report, weekly report, monthly report and annual report for query. Click "Export" to save the query results.