

## USC UNIFIED SECURITY

### User manual

Document version 2

Release date 2025/11/14

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# 1.Preface

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# 1 Preface

## Preface

Thank you very much for using our company's products. We will be happy to provide you with the best and highest quality service.

This manual may contain technical inaccuracies or text errors.

The content of this manual will be updated regularly without notice; the updated content will be added to the new version of this manual.

The interface images extracted from this manual are only used as examples. The interface may vary between versions, so please refer to the actual interface for accuracy.

We have a professional support team to answer your questions. Thank you for your support.

## 2.Version Update

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## 2 Version Update

### 2.1 Version Update Description

#### Version Update Description

| Version | Date       | Describe      |
|---------|------------|---------------|
| r1      | 2024/06/18 | First version |
|         |            |               |
|         |            |               |



## 3.Content Overview

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## 3 Content Overview

### Content Overview

USC unified security.

## 3.1 Platform Introduction

### Platform Introduction

The USC security platform utilizes new IT technology, based on HTML5 native video playback technology, which can be accessed through any web browser on the PC side. It has a simplified and intuitive icon user interface that enhances the user experience. Based on a microservices architecture, it can achieve real-time stream replication of databases, supports two backup databases, and the system can automatically detect and select the primary database. It supports node hot standby mode to achieve high availability in device management; A unified device management model has been implemented to display and control system access resources in a unified manner; Realized video analysis algorithm based on deep learning; Realized video storage and metadata storage based on streaming storage; The video system abstracts a universal device access interface, which can fully comply with the SDKs and industry standards of various manufacturers; The video system adopts automatic detection and transcoding technology, which can make the browser play smoother and more fluent; Integrate mainstream access control systems; It fully supports GB28181 and GB35114, and can achieve the docking of national standards for safe city level.



## 4. Software Installation

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## 4 Software Installation

### Software Installation Preparation

Windows 7/8/10, Windows Server 2008/2012/2016, Centos 7, RockyLinux 8/9, Redhat 7/8/9, Ubuntu20.04/22.04 and other 64-bit operating systems, 8G memory, 4-core CPU and above. You can also use Linux systems running on Kunpeng 920 Feiteng Loongson. The versions are as follows

| CPU                                    | Operating System                                                                                 | Version Name                                                                 |
|----------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| x64                                    | Windows 7/8/10, Windows Server 2008/2012/2016/2019                                               | usc-*-win64-release.zip<br>usc-*-win64-release.exe<br>(Installation package) |
| x64                                    | CentOS 7/RockyLinux 8/Ubuntu16.04/18.04/20.04<br>Debian 9/10/11<br>(CentOS 8 is not recommended) | usc-*-linux-x86_64-64bit.tar.gz                                              |
| Kunpeng 920<br>Flying<br>RK3399(ARMv8) | Linux                                                                                            | usc-*-linux-armv8-64bit.tar.gz                                               |
| Godson 3                               | Linux                                                                                            | usc-*-linux-loongson-64bit.tar.gz                                            |

### Download The Installation Package

Download the corresponding installation package from the following link  
<https://linkingvision.com/swdload>

## 4.1 Windows Installation

### Install Windows Run Support Package

Please download all the runtime support libraries from the following link:

<https://linkingvision.com/download/h5stream/win/VisualC%2B%2BRedistributable/>

Please install in order, 2008, 2010, 2013, 2015-2019. If there is an installation failure, please update the operating system in the System and Security Check Updates section of the Control Panel.

If Windows 2012 still cannot solve the problem, please refer to the following link or update the operating system at the operating system update section.

[https://answers.microsoft.com/en-us/windows/forum/windows8\\_1-windows\\_install/api-ms-win-crt-string-1-1-0dll-and-others-missing/85a91890-ed8a-4e6e-8f94-b53639c39970?auth=1](https://answers.microsoft.com/en-us/windows/forum/windows8_1-windows_install/api-ms-win-crt-string-1-1-0dll-and-others-missing/85a91890-ed8a-4e6e-8f94-b53639c39970?auth=1)

Run Manually

Unzip the product package and run usc.bat.If you install the Windows installation package, the service will automatically run. If you manually run it again, you need to stop the service. It is recommended to stop the service and run it manually.

| > Windows (C:) > xdev > install > usc-r1.3.0618.24-win64-release |                  |               |    | 在 |
|------------------------------------------------------------------|------------------|---------------|----|---|
| 名称                                                               | 修改日期             | 类型            | 大小 |   |
| libtcmalloc_minimal.dll                                          | 2020/4/4 17:01   | 应用程序扩展        |    |   |
| live555.dll                                                      | 2023/10/25 10:17 | 应用程序扩展        |    |   |
| lrtclicb.dll                                                     | 2024/5/14 14:53  | 应用程序扩展        |    |   |
| mtoken_gm3000.dll                                                | 2022/9/6 13:37   | 应用程序扩展        |    |   |
| nice-10.dll                                                      | 2024/2/2 19:02   | 应用程序扩展        |    |   |
| nssm.exe                                                         | 2020/4/4 11:07   | 应用程序          |    |   |
| openh264-6.dll                                                   | 2024/2/2 19:02   | 应用程序扩展        |    |   |
| openssl.cnf                                                      | 2020/4/4 11:07   | CNF 文件        |    |   |
| openssl.exe                                                      | 2021/1/16 9:21   | 应用程序          |    |   |
| opus-0.dll                                                       | 2024/2/2 19:00   | 应用程序扩展        |    |   |
| pango-1.0-0.dll                                                  | 2024/2/2 19:01   | 应用程序扩展        |    |   |
| pangocairo-1.0-0.dll                                             | 2024/2/2 19:01   | 应用程序扩展        |    |   |
| pangowin32-1.0-0.dll                                             | 2024/2/2 19:01   | 应用程序扩展        |    |   |
| pixman-1-0.dll                                                   | 2024/2/2 19:01   | 应用程序扩展        |    |   |
| png16-16.dll                                                     | 2024/2/2 19:01   | 应用程序扩展        |    |   |
| PocoCrypto64.dll                                                 | 2022/2/6 9:09    | 应用程序扩展        |    |   |
| PocoData64.dll                                                   | 2022/2/6 9:10    | 应用程序扩展        |    |   |
| PocoDataSQLite64.dll                                             | 2022/2/6 9:10    | 应用程序扩展        |    |   |
| PocoFoundation64.dll                                             | 2022/2/6 9:08    | 应用程序扩展        |    |   |
| PocoJSON64.dll                                                   | 2022/2/6 9:08    | 应用程序扩展        |    |   |
| PocoJWT64.dll                                                    | 2022/2/6 9:11    | 应用程序扩展        |    |   |
| PocoNet64.dll                                                    | 2022/2/6 9:09    | 应用程序扩展        |    |   |
| PocoNetSSL64.dll                                                 | 2022/2/6 9:10    | 应用程序扩展        |    |   |
| PocoRedis64.dll                                                  | 2022/2/6 9:11    | 应用程序扩展        |    |   |
| PocoUtil64.dll                                                   | 2022/2/6 9:09    | 应用程序扩展        |    |   |
| PocoXML64.dll                                                    | 2022/2/6 9:08    | 应用程序扩展        |    |   |
| Qt5Core.dll                                                      | 2024/6/4 14:02   | 应用程序扩展        |    |   |
| Qt5Network.dll                                                   | 2024/6/4 14:05   | 应用程序扩展        |    |   |
| Qt5Xml.dll                                                       | 2024/6/4 14:05   | 应用程序扩展        |    |   |
| swresample-4.dll                                                 | 2023/4/14 13:26  | 应用程序扩展        |    |   |
| swscale-7.dll                                                    | 2023/4/14 13:26  | 应用程序扩展        |    |   |
| usc.bat                                                          | 2023/3/23 15:22  | Windows 批处理文件 |    |   |
| usc.exe                                                          | 2024/6/12 8:25   | 应用程序          |    |   |
| uscpm.exe                                                        | 2024/6/18 13:29  | 应用程序          |    |   |
| uscrgservice.bat                                                 | 2024/3/21 9:02   | Windows 批处理文件 |    |   |
| uscunregservice.bat                                              | 2024/3/21 8:58   | Windows 批处理文件 |    |   |
| x264-160.dll                                                     | 2024/2/2 19:03   | 应用程序扩展        |    |   |
| z.dll                                                            | 2024/2/2 18:58   | 应用程序扩展        |    |   |

Install As A Service To Run

You can directly run uscrgservice.bat to install the service or run uscunregservice.bat to cancel the installation of the service. You need to use an administrator to open the cmd command line to run the script.

\*You can start and stop services in the service management tool  
**Control Panel\All Control Panel Items\Administrative Tools**  
The service name of the USC Security platform is USCSecurity

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## 4.2 Linux Install

### Decompress Install Package

There are soft links inside the Linux package, so it can only be unzipped on a Linux host. It is not supported to unzip on Windows and then upload to Linux.

### Manual Running

cd to the product directory and execute the following command to start:

```
#./usc.sh
```

If manual stop is required, it is recommended to use the kill command. First, use the ps command to find the corresponding PID:

```
#ps -ef | grep usc
```

Then use kill to stop it, where PID is the PID filtered out by ps:

```
#kill -9 PID
```

### Run As System Service

Copy the release package to /opt/usc. This path cannot be modified because the service script uses an absolute path. You can refer to the following figure:

```
/opt/usc
|-- certificate
|-- conf
|-- devcontroller
|-- devices
|-- etc
|-- genca.sh
|-- genrootca.sh
|-- h5ssex
|-- h5ssmain
|-- installgpudriver.sh
|-- lib
|-- libexec
|-- modules
|-- openssl
|-- openssl.cnf
|-- sbin
|-- services
|-- upgrade
|-- usc
|-- usc.service
|-- usc.service.sh
|-- usc.sh
|-- uscpm
|-- var
|-- www
```

### Centos 7/8 Rocky 8/9 Redhat 7/8/9

```
#cp usc.service /usr/lib/systemd/system/
```

```
#systemctl enable usc.service
```

```
#systemctl start usc.service
```

If you upgrade the service, you need to stop the service with systemctl disable usc.service and then cp usc.service again

### Ubuntu 18.04/20.04

```
#sudo mkdir -p /usr/lib/systemd/system/  
#sudo apt install systemd  
#sudo cp usc.service /usr/lib/systemd/system/  
#sudo systemctl enable usc.service  
#sudo systemctl start usc.service
```

Stop the service command as `systemctl stop usc.service`

## 4.3 Linux Performance Improvement

### Linux Performance Improvement Configuration

The default parameter configuration of Linux distributions is not very good for supporting high-capacity systems, so it is necessary to modify the parameters to improve performance.

```
#sudo vi /etc/security/limits.conf
```

Add the following lines at the end of the file

```
root soft nfile 655350  
root hard nfile 655350  
* soft nfile 655350  
* hard nfile 655350  
* soft nproc 655350  
* hard nproc 655350  
  
##  
##  
#@student      hard    nproc    20  
#@faculty      soft    nproc    20  
#@faculty      hard    nproc    50  
#ftp           hard    nproc    0  
#@student      -       maxlogins 4  
# End of file  
root soft nfile 655350  
root hard nfile 655350  
* soft nfile 655350  
* hard nfile 655350  
* soft nproc 655350  
* hard nproc 655350  
~
```

```
#sudo vi /etc/sysctl.conf
```

Add the following lines at the end of the file

```
fs.file-max = 655350  
kernel.pid_max = 655350  
net.core.rmem_max = 128000000  
net.core.somaxconn = 10000  
kernel.core_pattern = core.%e
```

---

```
# sysctl settings are defined through files in
# /usr/lib/sysctl.d/, /run/sysctl.d/, and /etc/sysctl.d/.
#
# vendors settings live in /usr/lib/sysctl.d/.
# To override a whole file, create a new file with the same in
# /etc/sysctl.d/ and put new settings there. To override
# only specific settings, add a file with a lexically later
# name in /etc/sysctl.d/ and put new settings there.
#
# For more information, see sysctl.conf(5) and sysctl.d(5).

fs.file-max = 655350
kernel.pid_max = 655350
net.core.rmem_max = 128000000
net.core.somaxconn = 10000
kernel.core_pattern = core.%e
~
~
~
```

```
#sudo sysctl -p
```

## Linux Performance View

```
#ulimit -a
```

open files 和 max user processes 为 655350

```
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size               (blocks, -f) unlimited
pending signals         (-i) 14950
max locked memory       (kbytes, -l) 64
max memory size         (kbytes, -m) unlimited
open files              (-n) 655350
pipe size                (512 bytes, -p) 8
POSIX message queues    (bytes, -q) 819200
real-time priority      (-r) 0
stack size              (kbytes, -s) 8192
cpu time                (seconds, -t) unlimited
max user processes      (-u) 655350
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited
```

```
#cat /proc/sys/kernel/pid_max
```

pid\_max 为 655350

```
[root@localhost user]# cat /proc/sys/kernel/pid_max
655350
```

You can check whether the following variables are the same as those in the configuration file

```
#cat /proc/sys/net/core/rmem_max
```

```
#cat /proc/sys/net/core/somaxconn
```

## 4.4 Open The Management Interface

### Open The Management Interface

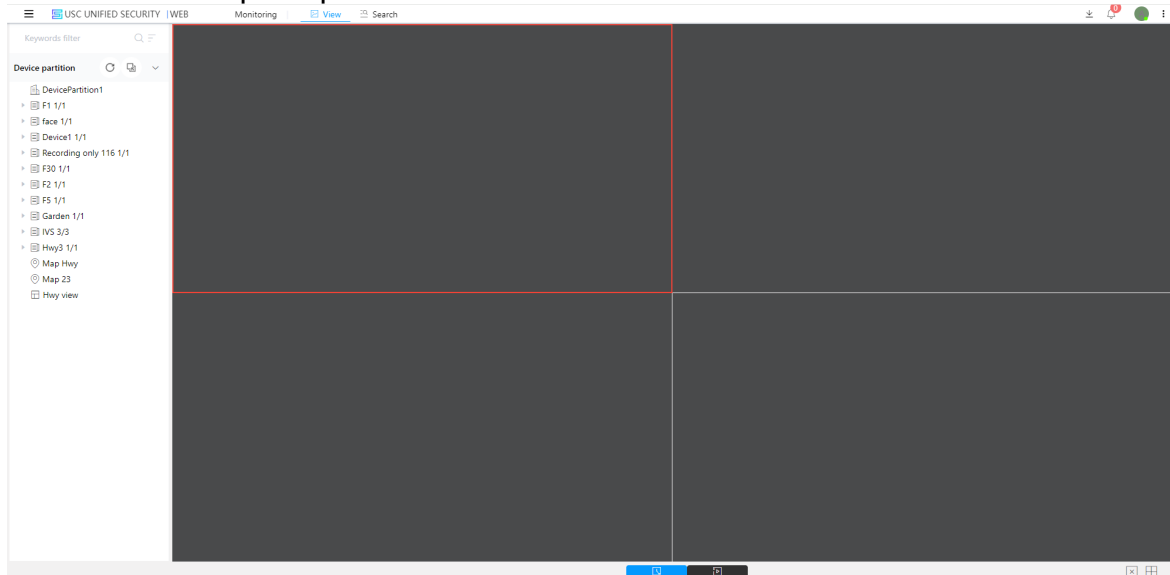
After USC is running normally, you can open the default port 8085 with the latest version of Chrome or Edge. The following interface will appear. If you can see the interface, it means that the operation has been successful. The address is as follows:



<http://192.168.100.121:8085/> Replace 192.168.100.121 with the actual IP address.

The default port for HTTP is 8085, and the default port for HTTPS is 8445.

The default password is Vision@168. If the user logs in for the first time, they are required to change the default password. For password rules, please refer to the interface prompts.



Or use <https://192.168.100.121:8445/> to access. If you use HTTPS, you need to click the following advanced button. The main reason is that the default certificate of USC is self-signed.



#### Your connection is not private

Attackers might be trying to steal your information from **192.168.100.165** (for example, passwords, messages, or credit cards). [Learn more about this warning](#)

NET::ERR\_CERT\_AUTHORITY\_INVALID

 [Turn on enhanced protection](#) to get Chrome's highest level of security

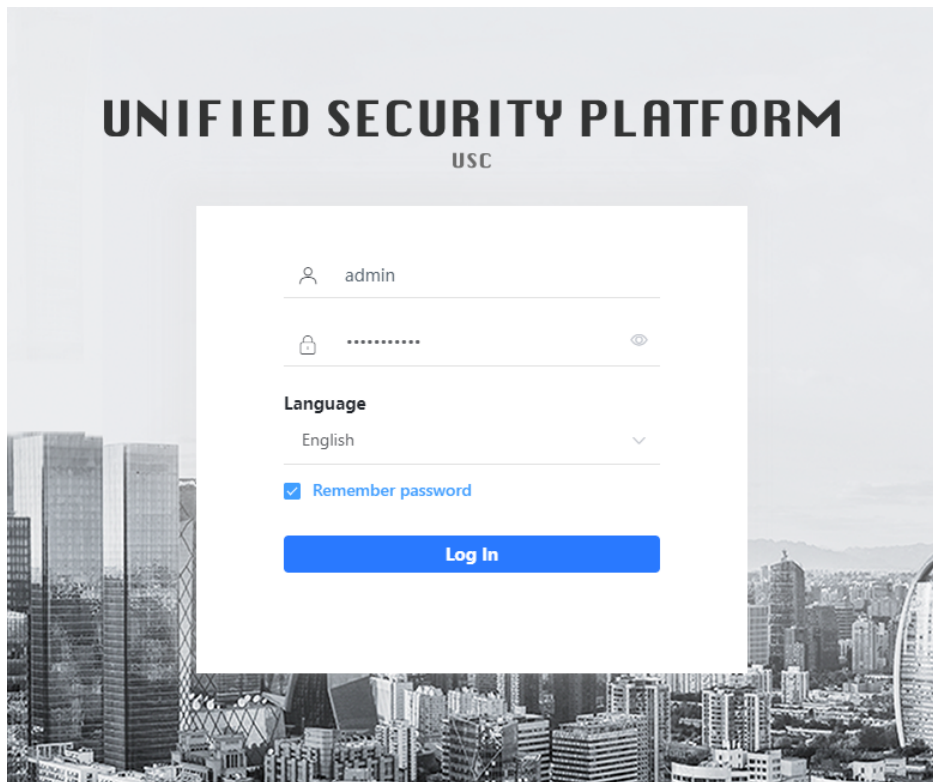
[Hide advanced](#)

[Back to safety](#)

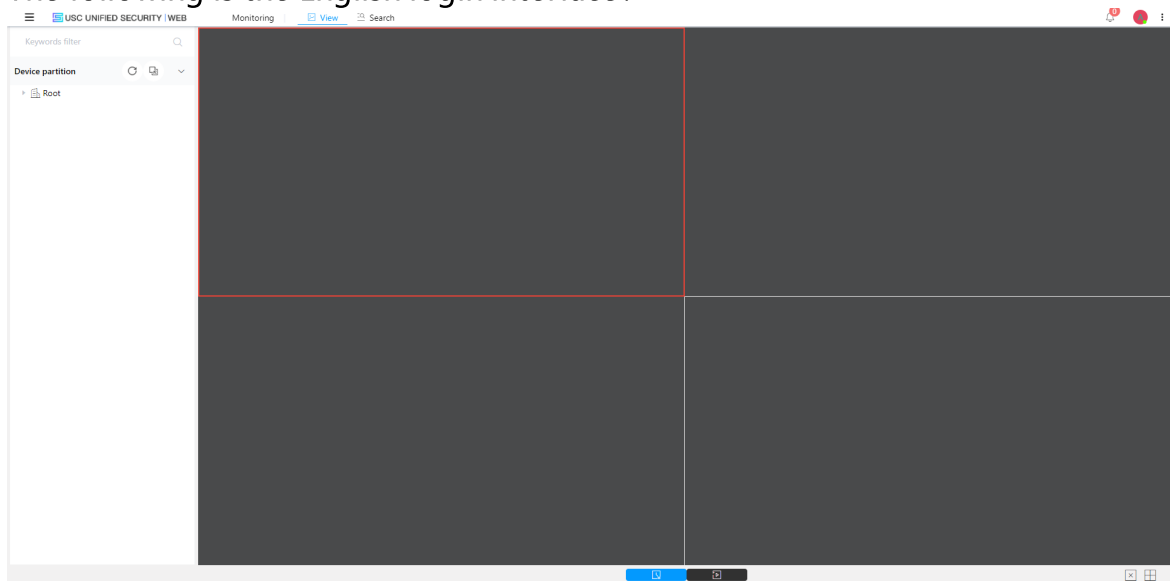
This server could not prove that it is **192.168.100.165**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

[Proceed to 192.168.100.165 \(unsafe\)](#)

The login interface allows users to select the desired language:



The following is the English login interface :



## 4.5 Install License

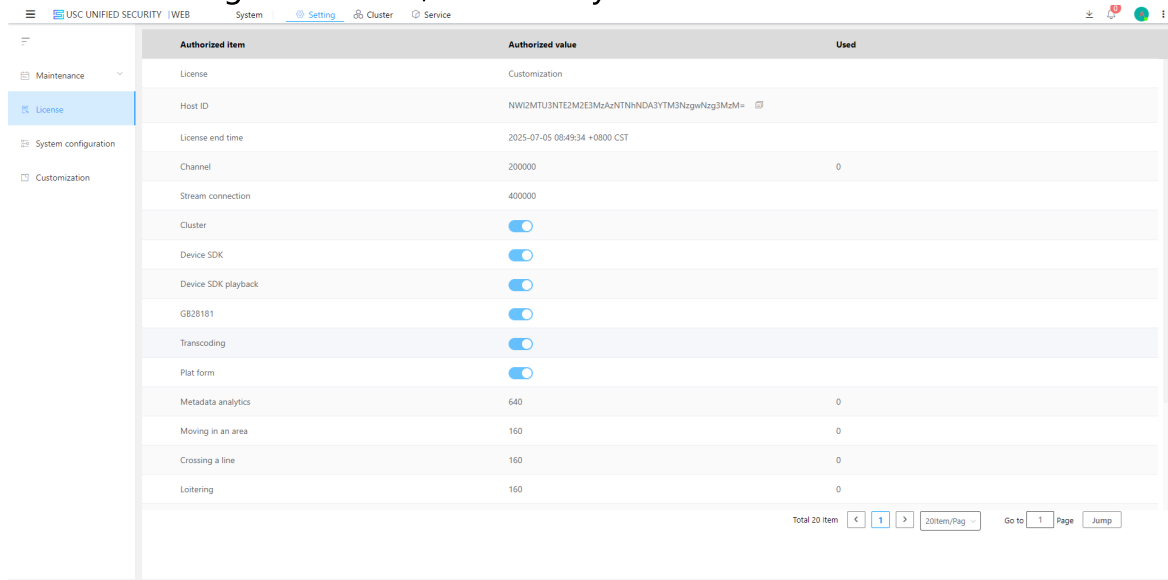
### Install License

In the management interface of the web, navigate to **System-» Authorization Management-» Settings-» Copy to obtain the Hostid (host number)**.Then

send the Hostid and the note USC to [info@linkingvision.com](mailto:info@linkingvision.com), and after receiving the usc.lic license file, put the usc.lic file under the conf directory, and then restart usc. Please close all virtual network cards and remove all USB network cards when generating Hostid.

If you want to replace the lic file, you need to move or delete the original lic file. Renaming is not supported because USC only recognizes the .lic suffix and supports different authorization file names.

If the original lic file name is inconsistent with the new one, please manually remove the original one first, so that only the new one will take effect.



## 4.6 Port

### Port

The ports used by USC are referenced in the following table:

| Name   | Port        | Protocol | Describe                                       |
|--------|-------------|----------|------------------------------------------------|
| HTTP   | 8085        | TCP      | Management Port                                |
| HTTPS  | 8445        | TCP      | Encryption management port                     |
| WBERTC | 50000-54999 | TCP      | For the port range, the number can be adjusted |
| TURN   | 9478        | TCP      | WEBRTC forwarding mode takes effect            |
| GB SIP | 5160        | TCP/UDP  | TCP/UDP can be configured                      |
| GB RTP | 55000-55999 | UDP/TCP  | For the port range, the number can be adjusted |

---

|             |             |         |                                                |
|-------------|-------------|---------|------------------------------------------------|
| GB35114 SIP | 5164        | TCP/UDP | TCP/UDP can be configured                      |
| GB35114 RTP | 56000-56999 | UDP/TCP | For the port range, the number can be adjusted |

## 4.7 N Version Windows Installation

### Install Windows Run Support Package

Please download all the runtime support libraries from the following link:

<https://linkingvision.com/download/h5stream/win/VisualC%2B%2BRedistributable/>

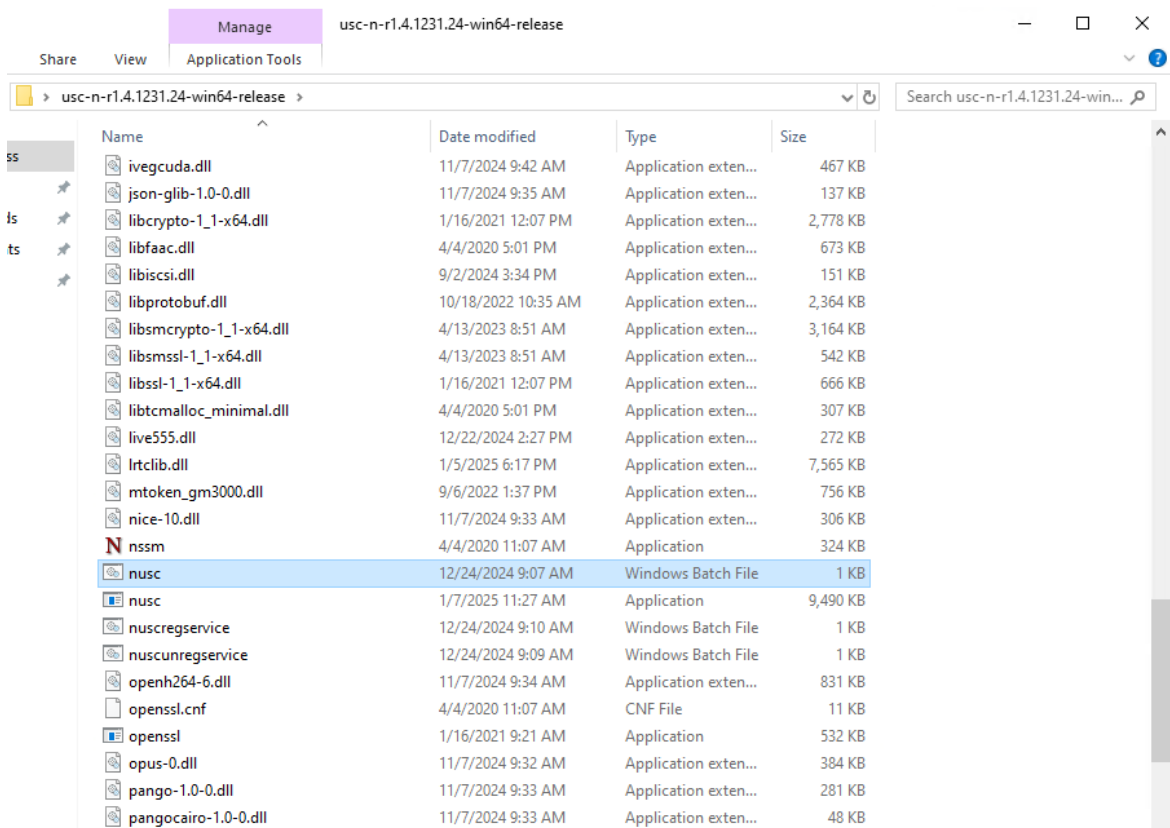
Please install in order, 2008, 2010, 2013, 2015-2019. If there is an installation failure, please update the operating system in the System and Security Check Updates section of the Control Panel.

If Windows 2012 still cannot solve the problem, please refer to the following link or update the operating system at the operating system update section.

[https://answers.microsoft.com/en-us/windows/forum/windows8\\_1-windows\\_install/api-ms-win-crt-string-1-1-0dll-and-others-missing/85a91890-ed8a-4e6e-8f94-b53639c39970?auth=1](https://answers.microsoft.com/en-us/windows/forum/windows8_1-windows_install/api-ms-win-crt-string-1-1-0dll-and-others-missing/85a91890-ed8a-4e6e-8f94-b53639c39970?auth=1)

### Run Manually

Unzip the product package and run nusc.bat. If you install the Windows installation package, the service will automatically run. If you manually run it again, you need to stop the service. It is recommended to stop the service and run it manually.



### Install As A Service To Run

You can directly run nuscregservice.bat to install the service or run nuscunregservice.bat to cancel the installation of the service. You need to use an administrator to open the cmd command line to run the script.

\*You can start and stop services in the service management tool

**Control Panel\All Control Panel Items\Administrative Tools**

The service name of the USC Security platform is NUSCSecurity

## 4.8 N Version Linux Installation

### Decompress Install Package

There are soft links inside the Linux package, so it can only be unzipped on a Linux host. It is not supported to unzip on Windows and then upload to Linux.

### Manual Running

cd to the product directory and execute the following command to start:

```
#./nusc.sh
```

If manual stop is required, it is recommended to use the kill command. First, use the ps command to find the corresponding PID:

```
#ps -ef | grep nusc
```

---

Then use kill to stop it, where PID is the PID filtered out by ps:

#kill -9 PID

### Run As System Service

Copy the release package to /opt/nusc. This path cannot be modified because the service script uses an absolute path. You can refer to the following figure:

```
[root@localhost nusc]# pwd
/opt/nusc
[root@localhost nusc]# ll
total 121108
drwxrwxr-x.  2 user user      153 Dec 31 13:30 certificate
drwxrwxr-x.  2 user user       28 Dec 31 13:30 conf
-rwxrwxr-x.  1 user user 548824 Dec 31 13:30 devcontroller
drwxrwxr-x. 12 user user      178 Dec 31 13:30 devices
drwxrwxr-x.  4 user user       34 Dec 31 13:30 doc
drwxrwxr-x.  4 user user       37 Dec 31 13:30 etc
-rwxrwxr-x.  1 user user      829 Dec 31 13:30 genca.sh
-rwxrwxr-x.  1 user user      334 Dec 31 13:30 genrootca.sh
-rwxrwxr-x.  1 user user 50986354 Dec 31 13:30 h5ssex
-rwxrwxr-x.  1 user user 51691016 Dec 31 13:30 h5ssmain
drwxr-xr-x.  9 user user    16384 Dec 31 13:30 lib
drwxrwxr-x.  2 user user       39 Dec 31 13:30 libexec
drwxrwxr-x. 76 user user     4096 Dec 31 13:30 mkspecs
drwxrwxr-x.  8 user user       78 Dec 31 13:30 modules
-rwxrwxr-x.  1 user user 9380799 Dec 31 13:30 nusc
-rw-rw-r--.  1 user user      816 Dec 31 13:30 nusc.service
-rwxrwxr-x.  1 user user     1580 Dec 31 13:30 nusc.service.sh
-rwxrwxr-x.  1 user user      969 Dec 31 13:30 nusc.sh
-rwxr-xr-x.  1 user user   752504 Dec 31 13:30 openssl
-rw-rw-r--.  1 user user     10835 Dec 31 13:30 openssl.cnf
drwxrwxr-x.  7 user user      109 Dec 31 13:30 plugins
drwxrwxr-x.  2 user user       73 Dec 31 13:30 sbin
drwxrwxr-x.  7 user user       67 Dec 31 13:30 services
drwxrwxr-x.  2 user user     4096 Dec 31 13:30 upgrade
-rwxrwxr-x.  1 user user 9380391 Dec 31 13:30 usc
-rwxrwxr-x.  1 user user 1189888 Dec 31 13:30 uscpm
```

### Centos 7/8 Rocky 8/9 Redhat 7/8/9

```
#cp nusc.service /usr/lib/systemd/system/
#systemctl enable nusc.service
#systemctl start nusc.service
```

If you upgrade the service, you need to stop the service with systemctl disable nusc.service and then cp nusc.service again

### Ubuntu 18.04/20.04

```
#sudo mkdir -p /usr/lib/systemd/system/
#sudo apt install systemd
#sudo cp nusc.service /usr/lib/systemd/system/
#sudo systemctl enable nusc.service
#sudo systemctl start nusc.service
```

Stop the service command as `systemctl stop nusc.service`





## 5.Basic Configuration

---

## 5 Basic Configuration

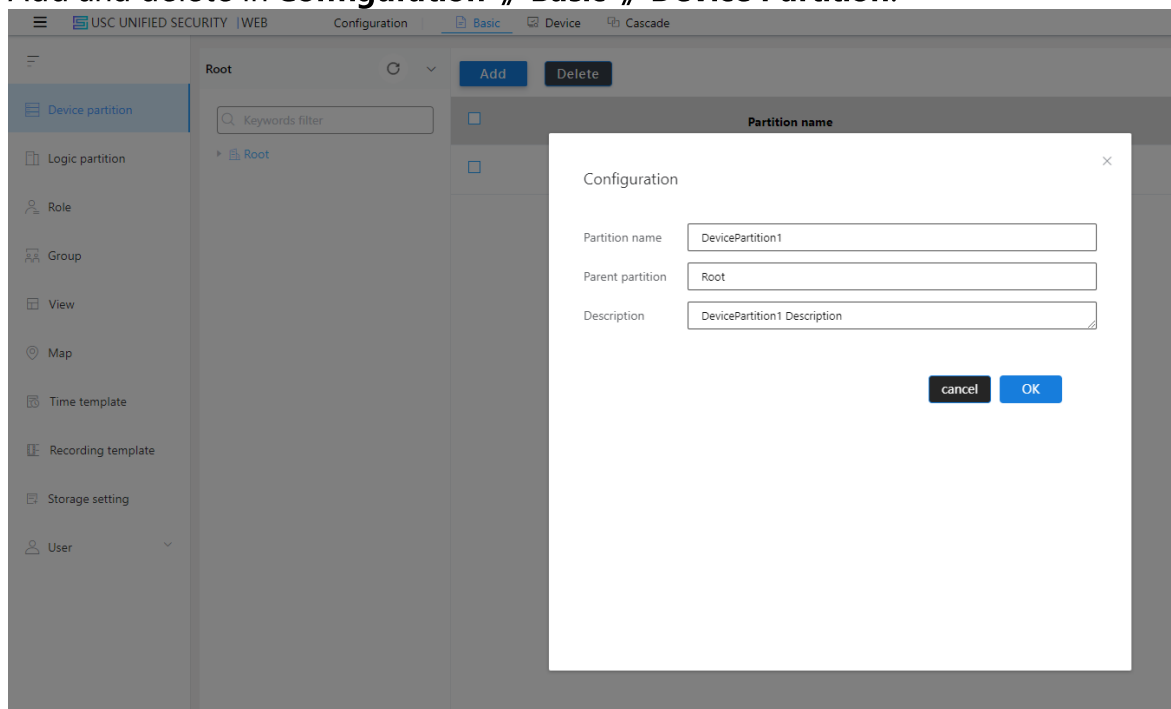
### 5.1 Device Partitioning

#### Introduction To Equipment zoning

The system abstracts various system resources into device partitions, including partitions/maps/views/cameras/doors, which users can view and operate in a unified manner. The system also provides logical partition management, allowing users to customize the device organization mode. Users can create multiple levels of partitions as needed, and subsequent configurations can mount the corresponding resources to the corresponding partitions.

#### Operation Steps

Add and delete in **Configuration-» Basic-» Device Partition**.



1. The first time you add a click on the **root node**, if you have added it before. You can select the **device partition** under the root node

#### Note

*The root node or device partition clicked here is the parent partition of the subsequent device partition.*

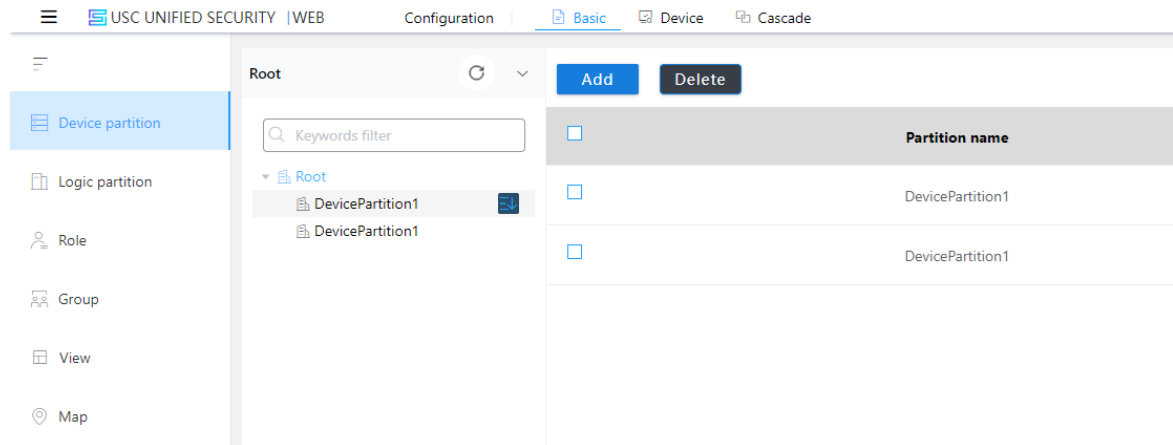
2. Click the **Add** button
3. Customize partition name
4. Custom partition notes

5. Click the up and down arrows to move the partition position, which can achieve sorting function



#### Caution

*If there are sub-partitions under the deleted partition, the sub-partitions will be deleted first.*



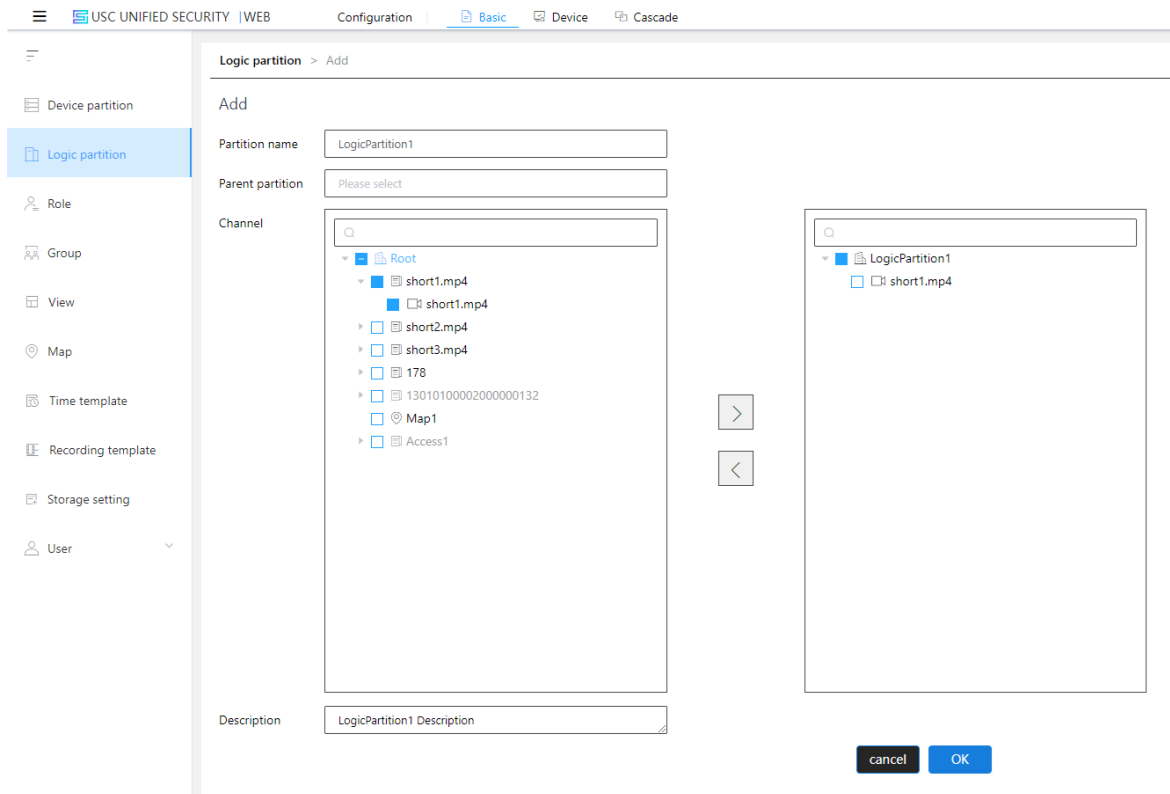
## 5.2 Logical Partitioning

### Introduction To Logical Partitioning

Logical partitions are a type of partition that can define multiple root nodes, used to reorganize system resources. Logical partitions can mount the same resources as device partitions, but by default, logical partitions do not have root nodes and require the creation of new root nodes.

### Operation Steps

Add and delete logical partitions in **Configuration-» Basic-» Logical Partition**.



1. Click the **Add** button
2. Customize the partition name
3. Select the **parent partition**

#### Note

*If it is the first time to add a partition, there is no need to select it. By default, there is no parent partition, so the added partition is a root partition; If you do not select a parent partition, you are also adding a root partition. The system allows multiple root logical partitions.*

4. Select the channel and click the > button to allocate it to the logical partition on the right. To cancel the allocation of the channel, click the < button in the same way

#### Caution

*The current version of logical partitioning can only allocate channel resources.*

5. Customize notes, which can add notes for the partition

#### Caution

*Editing operation: Editing mainly involves the allocation and cancellation of operation channels.*

*Delete operation: You can directly delete the parent partition here, which will delete the sub-partitions as well.*

## 5.3 Role

### Role Introduction

The role controls user permissions, assigning management permissions, usage permissions, and device partition permissions to the role for use by platform users.

### Operation Steps

Add and delete roles in **Configuration-» Basic-» Roles**.

1. Click the **Add** button
2. Customize the role name
3. Select management authority (optional operation)
4. Select the usage rights (optional operation)
5. Select device partition (optional operation)
6. Custom Notes

### Operation Steps For Modifying Roles

URITY | WEB Configuration Basic Device Cascade

| <a href="#">Add</a>      |               | <a href="#">Delete</a> |                                                                           |
|--------------------------|---------------|------------------------|---------------------------------------------------------------------------|
| <input type="checkbox"/> | Role name     | ID                     | Operational                                                               |
| <input type="checkbox"/> | Administrator | 10000                  | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Configuration</a> |
| <input type="checkbox"/> | Role1         | 10001                  | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Configuration</a> |

1. Edit: Edit roles, re-assign permissions, and partition devices
2. Delete: delete the role
3. Configuration: Modify role parameters

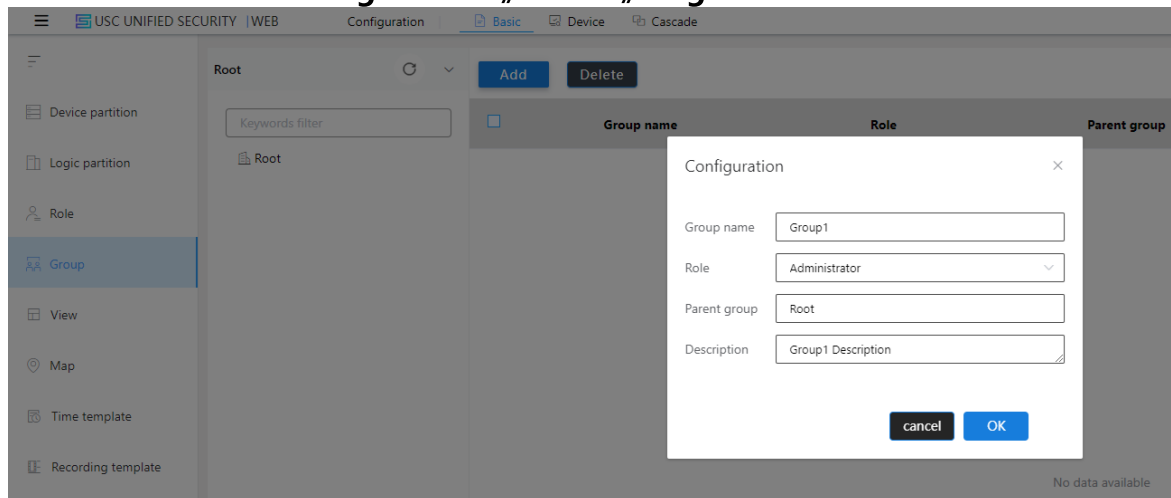
## 5.4 Group

### Group Introduction

An organization is a grouping of users. When a role is assigned to a newly created organization, the users under that organization will inherit the role permissions by default. When a new user is assigned to a corresponding organization, they will also inherit the role permissions of that organization.

### Operation Steps

Add and delete in **Configuration-» Basic-» Organization**.



1. Click the **Add** button
2. Customize the organization name
3. Select a **role**
4. Add the default root node for the first time, and you can select other organizations under the root node later
5. Custom notes

Edit: Re-modify the organization



#### Caution

*Delete operation: Only the lowest-level sub-organization can be directly deleted. If the sub-organization to be deleted has a parent, you need to select the parent and then delete the sub-organization below.*

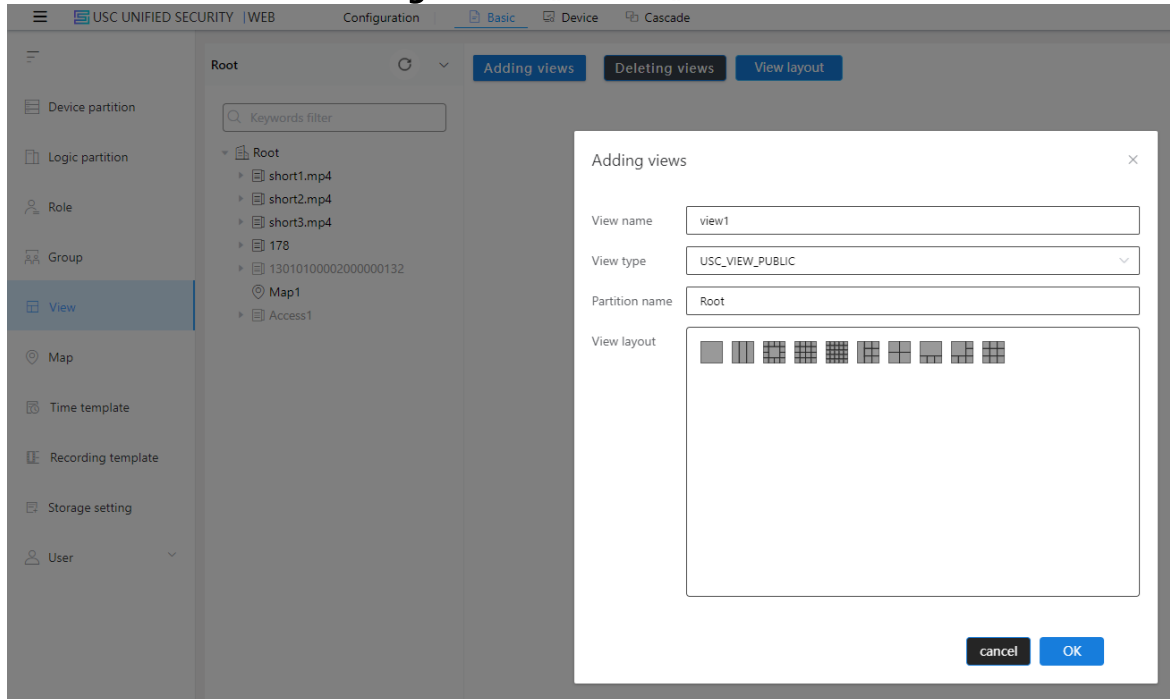
## 5.5 View

### View Introduction

The view can play or view various system resources, and can allocate system resources such as cameras/doors/maps to the view for easy subsequent viewing.

## Operation Steps

Add and delete in the **configuration-» basic-» view**.



1. Click **Add View**
2. Customize the view name
3. Select the view type (USC\_VIEW\_PUBLIC public, USC\_VIEW\_PRIVATE private). When selecting the private type, only the user who added the application on the platform can see this view
4. Select to place the view under the corresponding partition
5. Select View Grid
6. After adding a view, click or drag the device and map to the view, and click **Save**

### Note

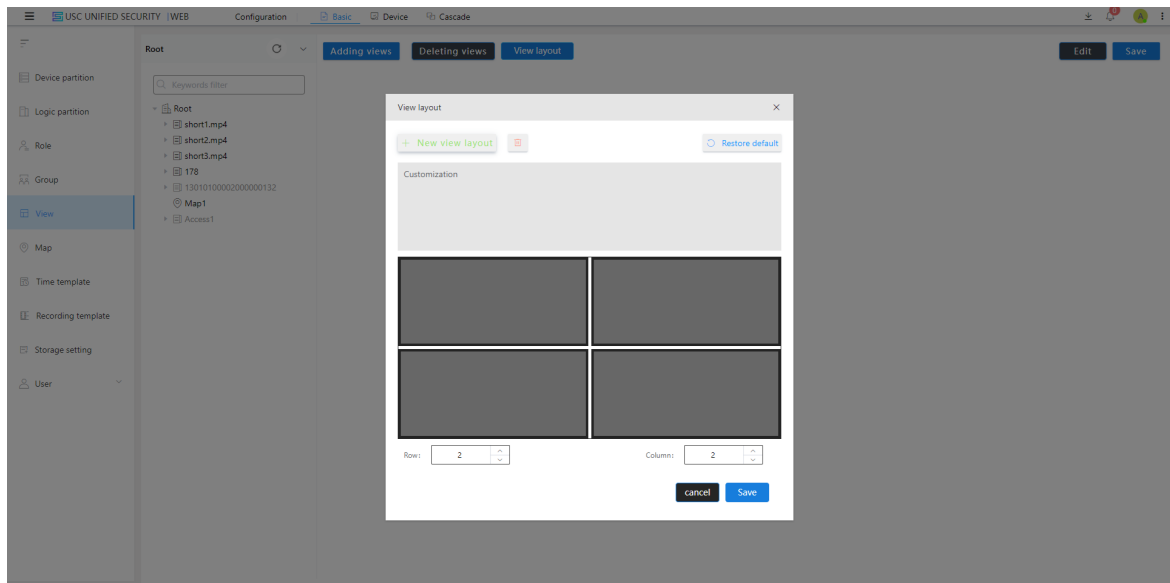
*Delete view: select the view under the root node on the left, and click **Delete View***

*Edit: select the view under the root node on the left, and click **Edit***

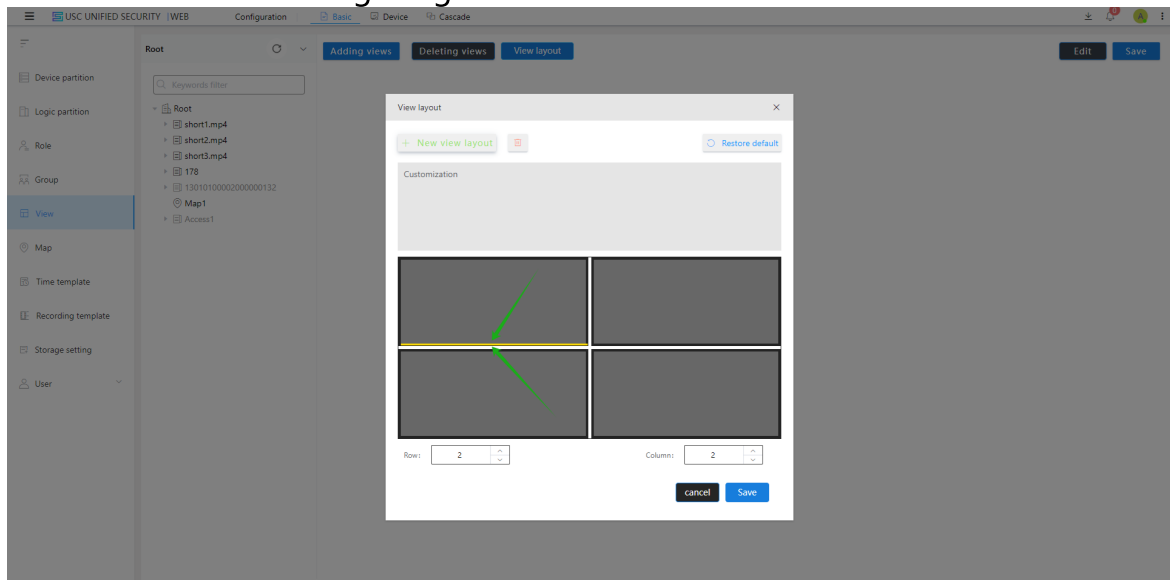
*Save: After adding views and view layouts, to place maps and cameras in the view, you need to click **Save***

## View Layout

Click **View Layout**, click **View Layout**, click **New View Layout**, adjust the rows and columns (optional operation), click the **gap between the grids** to merge the grids (optional operation), and click the **Restore Default** button to restore the default state.



When merging cells, you can click on the adjacent yellow lines to merge them, as shown in the following image:



## 5.6 Map

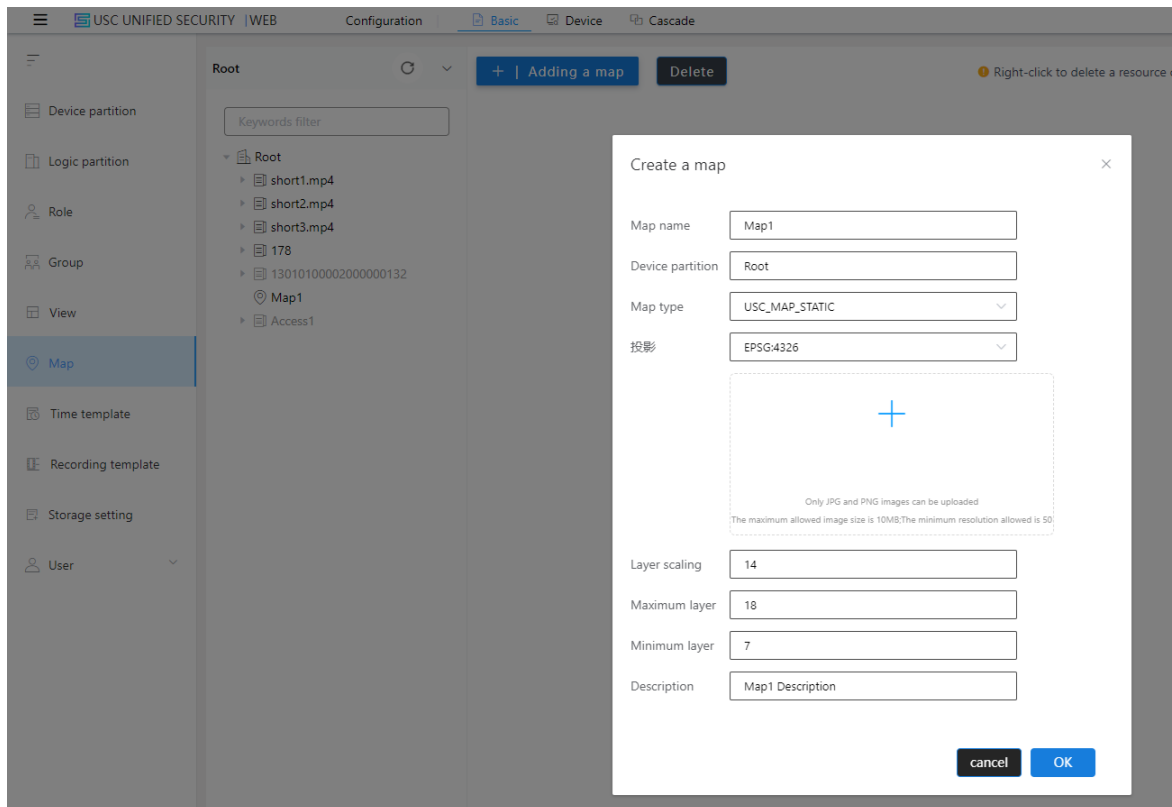
### Map Introduction

Support the addition of static maps (JPG/PNG), Google Maps, Gaode Maps, Tiandi Maps, and sliced maps. Drag camera/door/view and other system resources onto the map, and click the camera icon on the map to view.

### Operation Steps

Add and delete in **Configuration-» Basic-» Map**.





1. Click the **Add Map** button
2. Select **Device Partition**
3. Select the map type USC\_MAP\_STATIC static map JPG\PNG format, USC\_MAP\_GOOGLE Google map, USC\_MAP\_GAO\_DE Gaode map, USC\_MAP\_TIAN Tiandi map, USC\_MAP\_TILE tile map
4. Select the projection EPSG:4326, EPSG:3857, EPSG:4490, EPSG:4214, EPSG:4610
5. Enter the url of Gaode, Google, Tiandi, and tile maps
6. Use default or custom settings for longitude, latitude, layer zoom, maximum layer, and minimum layer
7. Custom notes
8. After adding a map, you can drag another map to create a jump between maps, and you can also drag views, cameras, and doors in. You can view it in the View menu.

#### Note

*Edit map: Select the map under the root node and click the **Edit Map** button*

*Clear the map: Select the map under the root node and click the **Clear** button*

*Delete map: select the map under the root node and click the **Delete** button*

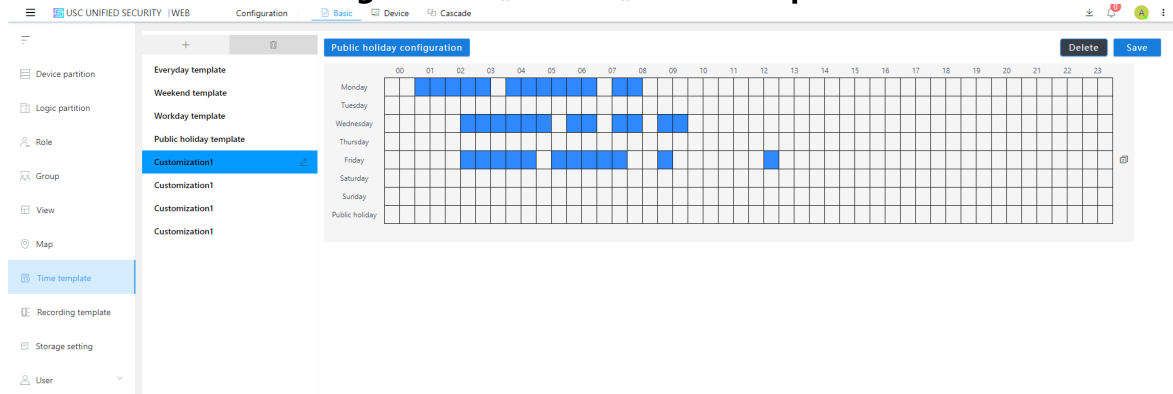
## 5.7 Time Template

### Introduction To Time Template

The customizable template specifies which days of the week the cameras on the platform should be turned on and which days they should not be turned on, and which time periods of the day to record videos. Alternatively, you can use the default video template provided by the platform. Once the camera on the platform is activated for recording, it will record according to the specified template.

### Operation Steps

Add and delete in **Configuration-» Basic-» Plan Template**.



1. Click the **Add** button
2. Select the added custom template
3. Click or click and drag the mouse to select the table
4. Click **Save**

Delete:

1. Select the template
2. Click the **Delete** button



**Caution**

*If there is an error in the drawing operation in the table and it needs to be redrawn, simply switch pages or refresh the page. This can be done before saving.*

## 5.8 Storage setting

### 5.8.1 Recording template

#### Recording Introduction

Configure continuous recording, motion detection recording, object detection recording, and motion+object detection recording for the main and auxiliary streams of the camera. And different types of continuous recording,

non recording, motion detection, object detection, motion and object detection.

## Operation Steps

Edit in **Configuration-》Basic-》Storage setting-》Recording template.**

| Number | Name                 | Function                                                                  |
|--------|----------------------|---------------------------------------------------------------------------|
| 1      | Stream               | Camera stream (main stream/M, auxiliary stream/S)                         |
| 2      | Pre-recorded time    | Plan time unit: seconds                                                   |
| 3      | Post record          | Recording delay unit in seconds                                           |
| 4      | ANR max time         | Video retention time unit: days                                           |
| 5      | Recording expire day | Maximum time unit for network interruption and transmission renewal: hour |
| 6      | Enable ANR           | Do you want to enable network disconnection and continue transmission     |

## 5.8.2 Snapshot Plan

### Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» Snapshot Plan.**

**Public holiday configuration**

Reset Save

Do not grab the image.

Continue to capture images

Continuous snapshot for 30 days

Continuous snapshot for 60 days

Continuous snapshot for 90 days

Continuous snapshot for 365 days

Motion snapshot

Object snapshot

Motion and object snapshot

Customization!

Stream: Main stream

Continue to capture images

Do not grab the image.

Motion

Object

Motion and object

Snapshot delay: 0 (0 stand for auto)

Resolution: Auto

Image quality: Middle

Snapshot time interval: 3

Snapshot expire day: 0 (0 stand for auto) Day

| Number | Name                   | Function                                                       |
|--------|------------------------|----------------------------------------------------------------|
| 1      | Stream                 | Camera stream (main stream/M, auxiliary stream/S)              |
| 2      | Snapshot delay         | Capture delay time unit in seconds (0 indicates automatic)     |
| 3      | Resolution             | 640x320, 720x576, 1280x720, 1920x1080, 0x0 represent automatic |
| 4      | Image quality          | high, medium, low                                              |
| 5      | Snapshot time interval | Capture interval time unit: seconds                            |
| 6      | Snapshot expire day    | Capture retention time in days (0 indicates automatic)         |

### 5.8.3 Storage mode

#### Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» Storage mode.**

#### Storage mode

Server name

Storage mode

### 5.8.4 Regular storage

#### Regular storage Introduction

Create a space on the server's disk to store videos on the platform. Multiple spaces can be created on the same disk. It is recommended to create only one space per disk for easy management.

#### Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» Regular storage.**

☐ Work server 1 2 3

☐ Server1 414GB Usable C: Total593GB 525GB Usable D: Total1TB 7TB Usable E: Total7TB Total 3 Units [Edit](#)

Regular storage > Edit

C: NTFS Mount point:C: Used/All: 179GB/593GB

(After saving, the maximum capacity cannot be modified)

D: NTFS Mount point:D: Used/All: 744GB/1TB

(After saving, the maximum capacity cannot be modified)

1. Click the **+** button
2. Drag the color bar left and right to determine the size of the recording partition
3. Click on the color block to determine the color of the color bar

4. Click the save button
- Delete video partition:
  1. Click the down button,
  2. Click on the red button

## 5.8.5 Meta storage

### Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» Meta storage.**

| Server name | Enable metadata storage             | Metadata retention period | MetaPartition                         | Operational          |
|-------------|-------------------------------------|---------------------------|---------------------------------------|----------------------|
| Server1     | <input checked="" type="checkbox"/> | 30                        | E: <div><div></div></div> 258GB / 7TB | <a href="#">Edit</a> |

Edit

Server name  **1**

Enable metadata storage ☒ **2**

Metadata retention period  **3**

C: NTFS
 

Mount point: C:

Used/All: 179GB/593GB

D: NTFS
 

Mount point: D:

Used/All: 744GB/1TB

E: NTFS
 

Mount point: E:

Used/All: 258GB/7TB

Save

| Number | Name                      | Function                           |
|--------|---------------------------|------------------------------------|
| 1      | Server name               | Select server                      |
| 2      | Enable metadata storage   | Whether to enable metadata storage |
| 3      | Metadata retention period | Metadata retention days            |

## 5.8.6 Image storage

### Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» Image storage.**

| Number | Name | Function |
|--------|------|----------|
|--------|------|----------|

|   |             |               |
|---|-------------|---------------|
| 1 | Server name | Select server |
|---|-------------|---------------|

5.8.7 Local object storage

Operation Steps

Edit in Configuration-» Basic-» Storage setting-» Local object storage.

Add

Server

Server1

| Server name | Index | Partition              | Mount  | Operational  |
|-------------|-------|------------------------|--------|--------------|
| Server1     | 1     | /dev/sdb 916GB / 916GB | Online | State Delete |
| Server1     | 2     | /dev/sda 52GB / 916GB  | Online | State Delete |

Local object storage > Add

Add

Advanced features

Server name

Server1

Index

3

/dev/sdc5 ext4

Mount point: /

Used/All: 143GB/2TB

/dev/sdb ext4

Mount point: /d2

Used/All: 916GB/916GB

| Number | Name        | Function      |
|--------|-------------|---------------|
| 1      | Server name | Select server |
| 2      | Index       |               |

Local object storage > /dev/sdb

State : Online Start and end time : 2025-10-29T22:19:18+08:00 -- 2025-11-05T13:19:43+08:00

2025 Week 45

Month Week Day

11/02

11/03

11/04

11/05

11/06

11/07

11/08

IPCamera 01

125

125

R1

R2

R3

R4

R5

R6

R7

R8

R9

R10

R11

R12

R13

R14

R15

R16

R17

R18

R19

R20

5.8.8 S3 storage

Operation Steps

Edit in **Configuration-» Basic-» Storage setting-» S3 storage.**

| Server name | Index | AccessKey         | SecretKey        | RegionName | BucketName | Endpoint                     | Enable                              | Start time                | End time                  | Operational                                                       |
|-------------|-------|-------------------|------------------|------------|------------|------------------------------|-------------------------------------|---------------------------|---------------------------|-------------------------------------------------------------------|
| Server1     | 1     | 455OKiVh2sEwAB... | 8T8hkWVou77CN... | region-a   | bucket-161 | http://192.168.100.161:9000/ | <input checked="" type="checkbox"/> | 2025-10-29T11:19:09+08:00 | 2025-11-05T10:16:15+08:00 | <a href="#">State</a> <a href="#">Edit</a> <a href="#">Delete</a> |

S3 storage > Edit

Edit

Server name

1

Server1

AccessKey

2

455OKiVh2sEwABVNBENp

SecretKey

3

8T8hkWVou77CNxiy29DsNcZttk5FEBd9K2BymGor

RegionName

4

region-a

BucketName

5

bucket-161

Endpoint

6

http://192.168.100.161:9000/

Save

| Number | Name        | Function      |
|--------|-------------|---------------|
| 1      | Server name | Select server |
| 2      | AccessKey   |               |
| 3      | SecretKey   |               |
| 4      | RegionName  |               |
| 5      | BucketName  |               |
| 6      | Endpoint    |               |



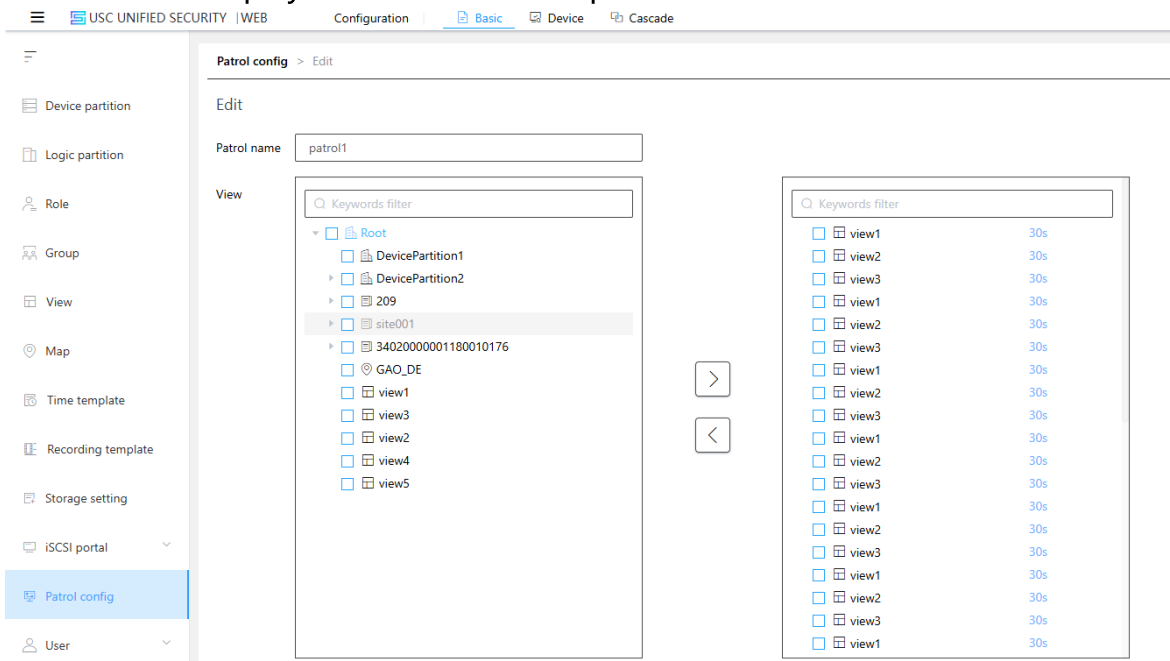


## 5.9 Patrol Config

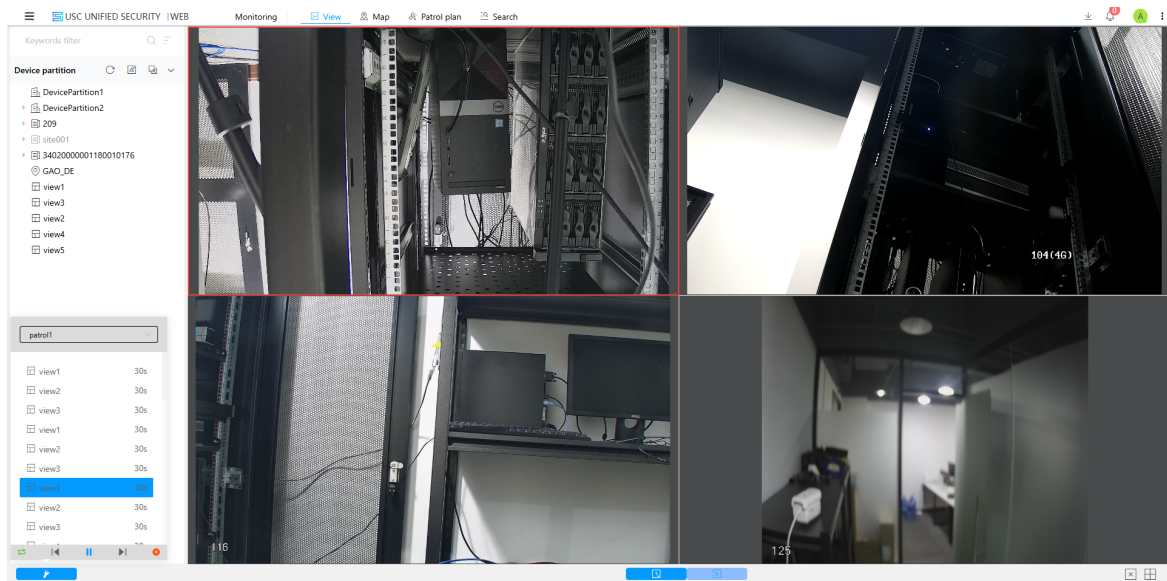
### Patrol Config

In View-» **Bottom left corner of the page**, assign multiple views to a patrol configuration. Select a patrol configuration and the views within it will be patrolled one by one.

1. Click **Add** button
2. Customize the name of the patrol
3. Select the view to be patrolled
4. Click > button
5. Adjust the patrol time for each view (optional operation)  
Adjust the position of each view up and down (optional operation)
6. Click **OK** button
7. Switch to the view page and select the newly created patrol configuration in the lower left corner
8. Click the blue play button to start the patrol



The buttons are arranged from left to right, with loop playback, previous view, play, pause, next view, and close patrol.



## 5.10 User

### User Introduction

Add, delete, and modify user passwords. And adjust some user configurations, which only take effect on the client side.

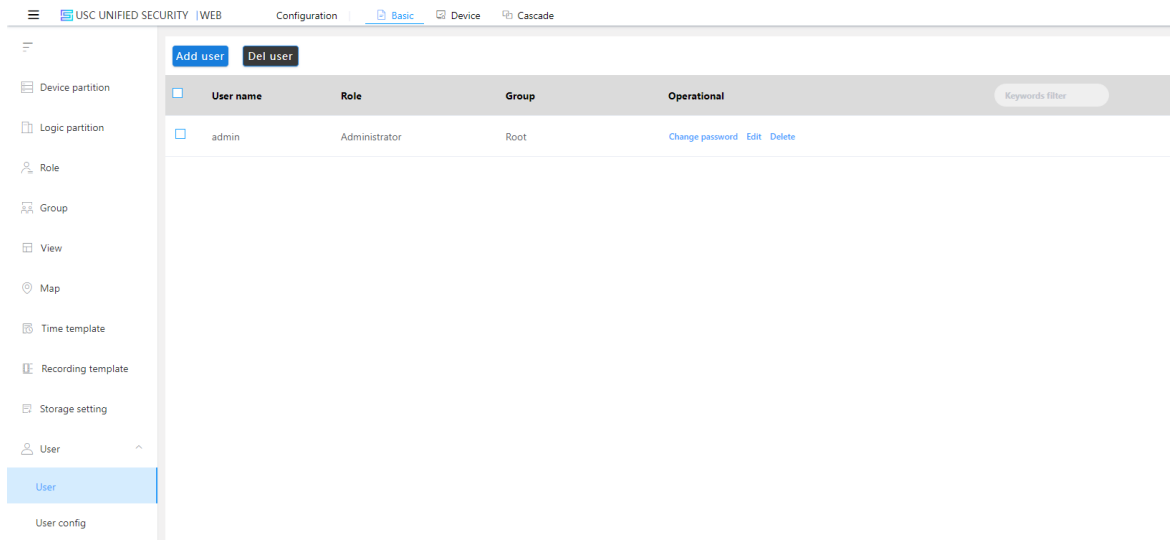
### 5.10.1 User

#### Operation Steps

Add and delete users in **Configuration-» Basic-» Users-» Users**.

1. Click **Add** User
2. Customize Username

3. Select a role
  4. Select organization
  5. Enter password
  6. Re-enter the confirmation password
  7. Enter Email
  8. Custom Notes
- Change Password:
1. Click ***Change Password***
  2. Change the user password



Editor:

1. Click ***Edit***
2. Edit user information

Delete:

1. Select User
2. Click on ***Delete User*** or directly click on ***Delete***



***Caution***

*The user name cannot be repeated, otherwise the addition will fail.*

## 5.10.2 User config

### Operation Steps

Add and delete in **Configuration-» Basic-» User-» User Configuration.**

USC UNIFIED SECURITY | WEB Configuration | Basic | Device | Cascade

admin

### User config

Device partition

Logic partition

Role

Group

View

Map

Time template

Recording template

Storage setting

User

User

User config

Liveview protocol: WS2

Playback protocol: WS2

Buffertime 0 Millisecond

H264 CPU decode

Watermark watermark Enable watermark Disable watermark

RTC engine v1

Display disable Hide

Image quality selection Show

Web client auto-logout time 15 Minutes

Enable Web client auto-logout

WS decoder H264 H265

RTC decoder H264

Aspect ratio

cancel Save

| Configuration               | Explain |
|-----------------------------|---------|
| Liveview protocol           |         |
| Playback Protocol           |         |
| Buffertime                  |         |
| H264 CPU decode             |         |
| Watermark                   |         |
| PTC engine                  |         |
| Display disable             |         |
| Image quality selection     |         |
| Web client auto-logout time |         |

|                               |  |
|-------------------------------|--|
| Enable Web client auto-logout |  |
|-------------------------------|--|

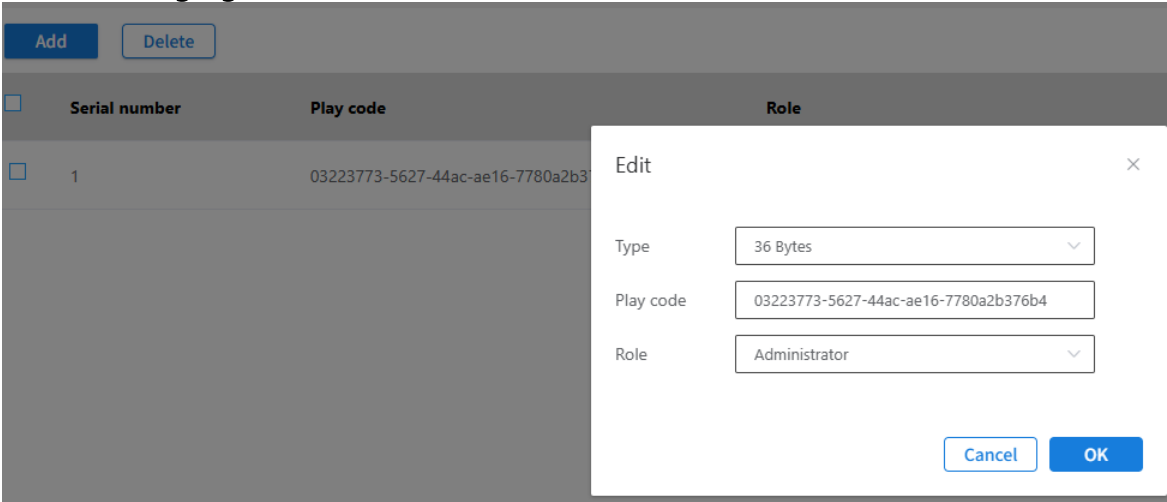
5.10.3 Play code

Play code Introduction

Playcodes can be used to replace session playback of videos, and playcodes can be considered as fixed sessions.

Operation Steps

Edit in **Configuration-» Basic-» User-» Play code** Add and Delete Playcode. You can specify the permissions for the playcode. The playcode has 4-digit and 36 bit modes, which can be selected according to your needs. Please refer to the following figure:



5.11 Joystick

Joystick Introduction

Calibrate the sensitivity of the joystick and button configuration joystick.

Operation Steps

Edit and calibrate in **Configuration-» Basic-» Joystick**.

---

## Basic actions



Pan and tilt

Sensitivity



Zoom in/Zoom out

Sensitivity

|          |                              |
|----------|------------------------------|
| Button 1 | Next grid                    |
| Button 2 | Previous grid                |
| Button 3 | Full Screen/Exit Full Screen |
| Button 4 | Hotkey 1                     |
| Button 5 | Hotkey 2                     |
| Button 6 | Hotkey 3                     |

1. Calibration
2. Pressing the corresponding button on the joystick button page will flash
3. Edit sensitivity
4. Sliding sensitivity slider

## 5.12 Rules and Events

### 5.12.1 Rule configuration

#### Operation Steps

Go to **Configuration-» Basic-» Rules and Events-» Rule Configuration-» Add.**

Rule configuration > Add

Add

Name Rule 001 1 Time template Everyday template 2 The type of operation USC\_RULE\_EVENT\_NOTIF\_EMAIL 3

Configure the list Please select 4

Type 5

The type of system event

☐ Check all

☐ Online status ☐ Offline status ☐ Motion detection

☐ Cross line ☐ Field detection ☐ Smoke detection

☐ Cons vehi detection

Analyze the type of event

☐ Check all

☐ Helmet detection ☐ Moving in an area ☐ Fall detection

☐ Crossing a line ☐ Loitering ☐ Stopped vehicle

☐ Vehicle counting ☐ Person counting

Channel

Keywords filter 6

Root

Keywords filter

No data available

7

Enable ☐ description description 8

Cancel Save

| Number | Name                  | Function                                |
|--------|-----------------------|-----------------------------------------|
| 1      | Name                  | Name                                    |
| 2      | Time template         | Time template                           |
| 3      | The type of operation | Operation Type                          |
| 4      | Configure the list    | List after selecting the operation type |
| 5      | Type                  | Type of triggering event                |
| 6      | Channel               | Channel for triggering events           |
| 7      | Enable                | Enable or not                           |
| 8      | description           | description                             |

5.12.2 Send notification configuration

5.12.2.1 Email configuration

Operation Steps

Go to **Configuration-» Basic-» Rules and Events-» Send notification configuration-» Email configuration-» Add.**

## Add

Name Notification Profile 001 1

description description 2

Theme Theme 3

Message text Camera {{.ChannelName}} triggered alarm event {{.EventType}} 4

Add system information(Click the link to insert the variable into the text field)

Channel The type of event Description

Picture ☒ 5

Recipient's email address linkingvision@163.com 6

Cancel

Save

| Number | Name                      | Function                  |
|--------|---------------------------|---------------------------|
| 1      | Name                      | Name                      |
| 2      | description               | description               |
| 3      | Theme                     | Subject of the email      |
| 4      | Message text              | Email message             |
| 5      | Picture                   | Attachment image of email |
| 6      | Recipient's email address | Recipient's address       |



5.12.3 Mail service configuration

Mail service configuration

Go to **Configuration-» Basic-» Rules and Events-» Mail service configuration**

Mail service configuration

Sender's email address

linkingvision@163.com1

SMTP service address

smtp.163.com2

SMTP port

253

Authorization code

.....4

SSL

5

Save

| Number | Name                   | Function               |
|--------|------------------------|------------------------|
| 1      | Sender's email address | Sender's email address |
| 2      | SMTP service address   | SMTP service address   |
| 3      | SMTP port              | SMTP port              |
| 4      | Authorization code     | Authorization code     |
| 5      | SSL                    | Whether to enable SSL  |

## 5.13 Alarm configuration

### Operation Steps

Go to **Configuration-» Basic-» Rules and Events-» Alarm configuration**

The screenshot shows the 'Add' form for alarm configuration. It includes fields for Name (1), Time template (2), Alarm ownership (3), and Alarm level (4). The Type section (5) has two groups of checkboxes: 'The type of system event' (Online status, Offline status, Motion detection, Cross line, Field detection, Smoke detection, Cons vehi detection) and 'Analyze the type of event' (Helmet detection, Moving in an area, Fall detection, Crossing a line, Loitering, Stopped vehicle, Vehicle counting, Person counting). The Channel section (6) shows a tree view with 'Root' selected. At the bottom, there are toggle switches for 'force eject' (7) and 'Enable' (8), and a text input for 'description' (9). 'Cancel' and 'Save' buttons are at the bottom left.

| Number | Name            | Description                                                   |
|--------|-----------------|---------------------------------------------------------------|
| 1      | Name            | Name                                                          |
| 2      | Time template   | Time template                                                 |
| 3      | Alarm ownership | Alarm ownership                                               |
| 4      | Alarm level     | Alarm level                                                   |
| 5      | Type            | Type of alarm trigger                                         |
| 6      | Channel         | Channel of alarm trigger                                      |
| 7      | force eject     | Whether to force pop up the alarm when the alarm is triggered |
| 8      | Enable          | Whether to enable                                             |
| 9      | description     | description                                                   |

If forced pop-up is enabled, an alarm pop-up will appear on any page whenever an alarm is triggered.

# 5.14 External IDP

## Operation Steps

Go to **Configuration-» Basic-» External IDP-» Add.**  
External IDP > Add

Add

Name

SSO IDP1

Providers

Keycloak2

Certified address

https://demo.authing.cn3

Client ID

68551demo1c6demo72demo694

ClientSecret

.....5

Login redirects

http://192.168.100.1:8085/uapi/v1/Auth/Login6

Logout redirects

http://192.168.100.1:80857

Claim name

given\_name8

Enable

9

(When enabled, other configurations are turned off)

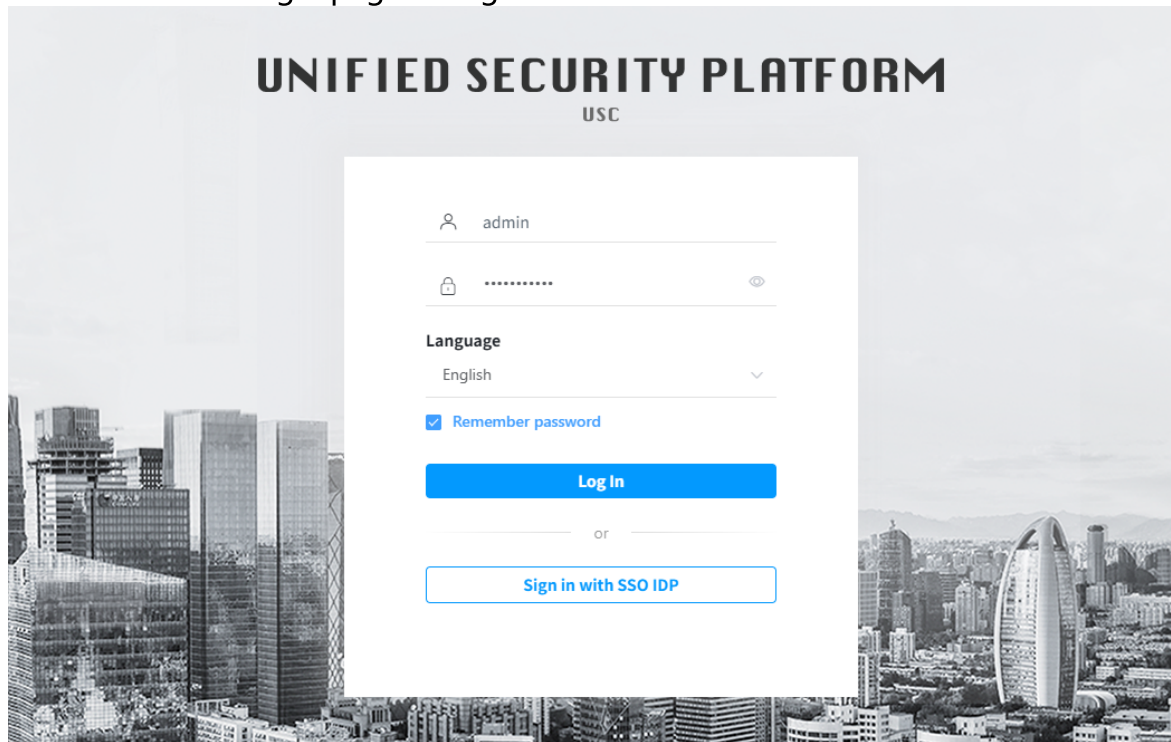
Cancel

Save

| Number | Name              | Description                            |
|--------|-------------------|----------------------------------------|
| 1      | Name              | Name                                   |
| 2      | Providers         | keycloak、authing、okta                  |
| 3      | Certified address | Basic authentication address for login |
| 4      | Client ID         | Application ID                         |
| 5      | ClientSecret      | Application Secret                     |

|   |                  |                                                        |
|---|------------------|--------------------------------------------------------|
| 6 | Login redirects  | Redirect login address http://...../uapi/v1/Auth/Login |
| 7 | Logout redirects | Redirect logout address http://.....                   |
| 8 | Claim name       | Role mapping relationship for login accounts           |
| 9 | Enable           | Whether to enable                                      |

Once all required configurations are completed, you can select other login methods on the login page to log in.



## 6.Configuration

---

---

## 6 Configuration

### 6.1 Region Management

#### 6.1.1 Device Management

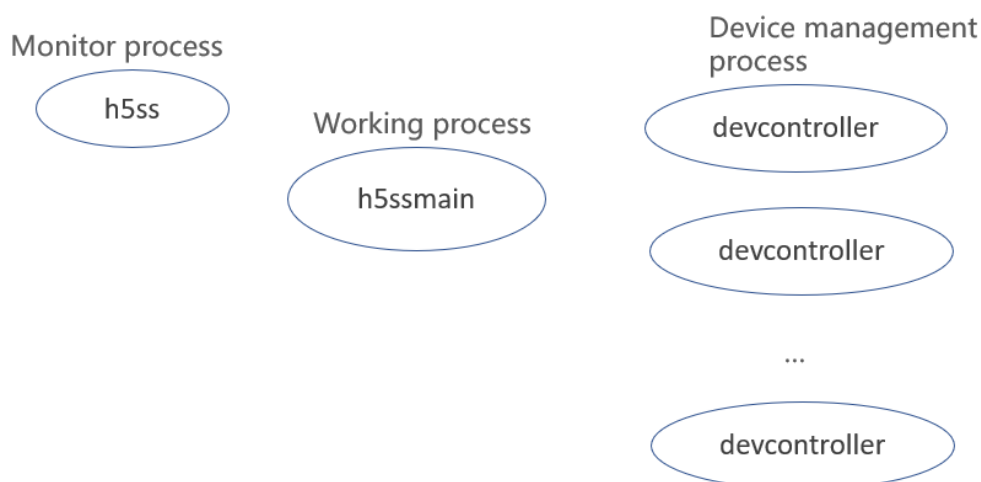
##### Video Device Configuration

USC integrates the device SDKs of mainstream video surveillance manufacturers in China to support richer features. Since the device SDKs include software libraries from other manufacturers, from the perspective of software product stability, USC provides two modes of operation, one is centralized and the other is sandbox.

Centralized is that all devices run to a process space. The advantage is high efficiency, without cross-process communication costs, and high efficiency; The disadvantage is that all devices are interconnected, and if an exception occurs, it will cause all devices to experience an exception.

**In Sandbox mode, it supports the offline channel of the NVR connected to the playback device SDK.**

The Sandbox mode is to open an independent process for each device. The advantage is that they are isolated from each other and have high stability; The disadvantage is that it increases the cost of cross-process communication. The Sandbox mode can be referred to the following figure:



##### 6.1.1.1 Video Device

##### Introduction To Video Device Configuration

The system supports industry standard protocols and mainstream manufacturers' SDK video devices.

## Operation Steps

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**.

URITY | WEB Configuration | Basic **Device** Cascade

Video devices > Add

Add

|             |                                                 |             |                            |
|-------------|-------------------------------------------------|-------------|----------------------------|
| Type        | H5_DEV_HIK                                      | Name        | Device1                    |
| Work server | Server1                                         | User name   | admin                      |
| Device      | Root                                            | Password    | *****                      |
| partition   | <input type="text"/> <div>  Root         </div> | IP          | 192.168.1.1                |
|             |                                                 | Port        | 8000                       |
|             |                                                 | API Port    | 80                         |
|             |                                                 | API Https   | <input type="checkbox"/>   |
|             |                                                 | Audio       | <input type="checkbox"/>   |
|             |                                                 | Sandbox     | <input type="checkbox"/>   |
|             |                                                 | ISAPI       | <input type="checkbox"/>   |
|             |                                                 | Sub event   | <input type="checkbox"/>   |
|             |                                                 | Max         | 0                          |
|             |                                                 | channels    | (0 stand for all channels) |
|             |                                                 | Description | Device1 description        |

cancel OK

1. Click **Add**
2. Select type
3. Select the home server
4. Select device partition
5. Custom name
6. Enter the device user name
7. Enter the device password
8. Enter the device ip address
9. Input Device Port
10. Turn on and turn off audio
11. Custom Notes

Delete:

1. Select the device
2. Click **Delete**

Editor:

1. Select device

---

2. Click **Edit**

Importing devices:

1. Click on **Device Import**

2. Click to **download the template**

3. Refer to the template content, fill in the device information and import it

Device export:

1. Click on the **device export**



**Caution**

*When adding, the password should be filled in correctly. If the wrong password is filled in, the device will be locked during the login process, and it will not be able to connect during this period. You need to restart the device to unlock it or wait for the device to automatically unlock. The lock is usually locked for 30 minutes, depending on the equipment manufacturer's regulations.*

#### 6.1.1.2 Device Search

##### Introduction to Device Search

The system supports ONVIF-based device search. When adding ONVIF and ONVIF STG (Profile S/Profile T/Profile G) types, the system automatically searches for ONVIF devices on the current network segment, supporting cameras and NVRs.

| Unadded device (5)   + Add   Refresh |    |              |      |                       |                     |
|--------------------------------------|----|--------------|------|-----------------------|---------------------|
|                                      | ID | IP           | Port | ONVIF address         | Model               |
| <input type="checkbox"/>             | 1  | 10.168.1.196 | 80   | /onvif/device_service | DS-7632N-I2         |
| <input type="checkbox"/>             | 2  | 10.168.1.143 | 80   | /onvif/device_service | CS-X5S-4W-C         |
| <input type="checkbox"/>             | 3  | 10.168.1.116 | 80   | /onvif/device_service | DS-2CD3T86FWDV2-I3S |

#### 6.1.1.3 RTSP/RTMP Source

##### RTSP/RTMP Source Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**.



URITY | WEB Configuration | Basic **Device** Cascade

Video devices > Add

Add

Type: H5\_DEV\_RTSP **1**

Work server: Server1 **2**

Device partition: DevicePartition1 **3**

partition

Root

DevicePartition1

Name: Device1 **4**

User name: admin **5**

Password: ..... **6**

URL: rtsp://192.168.1.1/stream **7**

Sub stream: ☒ **8**

Sub stream url: rtsp://192.168.1.1/stream2 **9**

Connection type: H5\_RTSP\_AUTO **10**

Audio: ☐ **11**

Description: Device1 description **12**

cancel OK

| Number | Name             | Function                                                        |
|--------|------------------|-----------------------------------------------------------------|
| 1      | Type             | H5_DEV_RTSP                                                     |
| 2      | Work server      | Work nodes, each of which can start the service                 |
| 3      | Device partition | Mounted partition                                               |
| 4      | Name             | Device name                                                     |
| 5      | User name        | Device Username                                                 |
| 6      | Password         | Device password                                                 |
| 7      | URL              | RTSP address                                                    |
| 8      | Sub stream       | Whether to enable the auxiliary code stream                     |
| 9      | Sub stream url   | RTSP address of auxiliary code stream                           |
| 10     | Connection type  | H5_RTSP_AUTO H5_RTSP_TCP H5_RTSP_UDP<br>The default is TCP mode |
| 11     | Audio            | Whether to enable audio                                         |
| 12     | Description      | Description                                                     |

#### 6.1.1.4 ONVIF Source

### ONVIF Source Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**.

IRITY | WEB Configuration | Basic Device Cascade

Video devices > Add

Add

|                  |                                                                  |             |                                              |
|------------------|------------------------------------------------------------------|-------------|----------------------------------------------|
| Type             | H5_DEV_ONVIF <b>1</b>                                            | Name        | Device1 <b>4</b>                             |
| Work server      | Server1 <b>2</b>                                                 | User name   | admin <b>5</b>                               |
| Device partition | DevicePartition1 <b>3</b>                                        | Password    | ***** <b>6</b>                               |
|                  | <div><div></div><div>Root</div><div>DevicePartition1</div></div> | IP          | 192.168.1.1 <b>7</b>                         |
|                  |                                                                  | Port        | 80 <b>8</b>                                  |
|                  |                                                                  | Audio       | <input checked="" type="checkbox"/> <b>9</b> |
|                  |                                                                  | Description | Device1 description <b>10</b>                |

**cancel** **OK**

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_ONVIF                                    |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |
| 4      | Name             | Device name                                     |
| 5      | User name        | Device Username                                 |
| 6      | Password         | Device password                                 |
| 7      | IP               | Device IP address                               |
| 8      | Port             | Device SDK port                                 |
| 9      | Audio            | Whether to turn on audio                        |
| 10     | Description      | Description                                     |

## 6.1.1.5 File Source

**File Source Configuration**

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. Support for configuring multiple files.

Configuration | Basic | **Device** | Cascade

Video devices > Add

Add

Type:  1

Work server:  2

Device partition:  3

Name:  4

Audio: ☐ 5

File list:  6

Description:

cancel OK

| Number | Name             | Function                                                                   |
|--------|------------------|----------------------------------------------------------------------------|
| 1      | Type             | H5_DEV_FILE                                                                |
| 2      | Work server      | Work nodes, each of which can start the service                            |
| 3      | Device partition | Mounted partition                                                          |
| 4      | Name             | Device name                                                                |
| 9      | Audio            | Whether to enable audio                                                    |
| 6      | File list        | File list, in the software directory videos, you can select multiple files |

6.1.1.6 Hikvision SDK

Introduction To Hikvision SDK

Hikvision SDK supports all video devices of Hikvision series (except for Yingshi), including cameras, NVRs, and some access control devices with video functions. It also supports CVR, and the configuration of CVR will be introduced later.

Hikvision SDK Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**.The default port is 8000.

RITY | WEB

Configuration | Basic | Device | Cascade

Video devices > Add

Add

Type

H5\_DEV\_HIK1

Work server

Server12

Device partition

DevicePartition13

Name

Device14

User name

admin5

Password

\*\*\*\*\*6

IP

192.168.1.17

Port

80008

API Port

809

API Https

10

Audio

11

Sandbox

12

ISAPI

13

Sub event

14

Max channels

015

Description

Device1 description16

cancel

OK

| Numbe<br>r | Name             | Function                                        |
|------------|------------------|-------------------------------------------------|
| 1          | Type             | H5_DEV_HIK                                      |
| 2          | Work server      | Work nodes, each of which can start the service |
| 3          | Device partition | Mounted partition                               |

|    |              |                                                                                               |
|----|--------------|-----------------------------------------------------------------------------------------------|
| 4  | Name         | Device name                                                                                   |
| 5  | User name    | Device Username                                                                               |
| 6  | Password     | Device password                                                                               |
| 7  | IP           | Device IP address                                                                             |
| 8  | Port         | Device SDK port                                                                               |
| 9  | API Port     | Equipment protocol port, alarm transmission, generally the same as the equipment web port     |
| 10 | API Https    | Whether the device protocol port is enabled for HTTPS                                         |
| 11 | Audio        | Whether to enable audio                                                                       |
| 12 | Sandbox      | Whether to open the sandbox                                                                   |
| 13 | ISAPI        | Whether real-time video is obtained using ISAPI                                               |
| 14 | Sub event    | Whether to enable subscription events                                                         |
| 15 | Max channels | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 16 | Description  | Description                                                                                   |



### Caution

If you enter the wrong password and cannot log in online even after correcting it, you can check whether the device configuration interface has enabled illegal login, or wait for 30 minutes to automatically unlock it. You can refer to the following interface.



### 6.1.1.7 Dahua SDK

## Dahua SDK Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 37777.

The screenshot shows the 'Add' form for a video device in the 'Device Management' section. The form is titled 'Video devices > Add'. It includes the following fields and controls:

- Type:** H5\_DEV\_DH (1)
- Work server:** Server1 (2)
- Device partition:** DevicePartition1 (3)
- Name:** Device1 (4)
- User name:** admin (5)
- Password:** (6)
- IP:** 192.168.1.1 (7)
- Port:** 37777 (8)
- API Port:** 80 (9)
- API Https:** (10)
- Audio:** (11)
- Sandbox:** (12)
- Sub event:** (13)
- Max:** 0 (14)
- Description:** Device1 description (15)

The interface also includes a sidebar with 'Device management' and 'Video configuration' sections, and a 'cancel' button at the bottom right.

| Number | Name             | Function                                                                            |
|--------|------------------|-------------------------------------------------------------------------------------|
| 1      | Type             | H5_DEV_DH                                                                           |
| 2      | Work server      | Work nodes, each of which can start the service                                     |
| 3      | Device partition | Mounted partition                                                                   |
| 4      | Name             | Device name                                                                         |
| 5      | User name        | Device Username                                                                     |
| 6      | Password         | Device password                                                                     |
| 7      | IP               | Device IP address                                                                   |
| 8      | Port             | Device SDK port                                                                     |
| 9      | API Port         | Device protocol port, alarm transmission, generally the same as the device web port |

|    |              |                                                                                               |
|----|--------------|-----------------------------------------------------------------------------------------------|
| 10 | API Https    | Whether the device protocol port is enabled for HTTPS                                         |
| 11 | Audio        | Whether to enable audio                                                                       |
| 12 | Sandbox      | Whether to enable sandbox                                                                     |
| 13 | Sub event    | Whether to enable subscription events                                                         |
| 14 | Max channels | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 15 | Description  | Description                                                                                   |

#### 6.1.1.8 Huawei IVS

### Introduction to Huawei IVS

Huawei IVS SDK supports Huawei IVS1800 and IVS3800.

### Huawei IVS Configuration

Add and delete video devices in **Configure-» Device-» Device Management-» Video Devices**.

IRITY | WEB Configuration | Basic | **Device** | Cascade

Video devices > Add

Add

Type: H5\_DEV\_IVS **1**

Work server: Server1 **2**

Device partition: DevicePartition1 **3**

Name: Device1 **4**

User name: admin **5**

Password: ..... **6**

IP: 192.168.1.1 **7**

Port: 18531 **8**

Audio: ☒ **9**

Sandbox: ☒ **10**

Buffertime: 0 **11** Millisecond

Max channels: 0 **12** (0 stand for all channels)

Description: Device1 description **13**

cancel OK

| Number | Name | Function |
|--------|------|----------|
|--------|------|----------|

---

|    |                  |                                                                                                                      |
|----|------------------|----------------------------------------------------------------------------------------------------------------------|
| 1  | Type             | H5_DEV_IVS                                                                                                           |
| 2  | Work server      | Work nodes, each of which can start the service                                                                      |
| 3  | Device partition | Mounted partition                                                                                                    |
| 4  | Name             | Device Username                                                                                                      |
| 5  | User name        | Device Username                                                                                                      |
| 6  | Password         | Device password                                                                                                      |
| 7  | IP               | Device IP address                                                                                                    |
| 8  | Port             | Device SDK port                                                                                                      |
| 9  | Audio            | Whether to turn on audio                                                                                             |
| 10 | Sandbox          | Whether to enable sandbox                                                                                            |
| 11 | Buffertime       | The default value is 0, which is mainly used for large-resolution video RTP jitter buffering. Keep the default value |
| 12 | Max channels     | The maximum number of channels to load, default is 0, which means all channels are loaded                            |
| 13 | Description      | Description                                                                                                          |

#### 6.1.1.9 ONVIFSTG

##### Introduction to ONVIF STG

ONVIF STG type supports ONVIF Profile S/Profile T/Profile G, and supports cameras and network hard disk video recorders.

##### ONVIF STG Configuration

Add and delete video devices in **Configure-» Device-» Device Management-» Video Devices**.



USC UNIFIED SECURITY | WEB Configuration | Basic **Device** Cascade

Video device > Add

Add

Type: H5\_DEV\_ONFSTG **1**

Work server: Server1 **2**

Device partition: Root **3**

Keywords filter

Root

Name: Device1 **4**

User name: admin **5**

Password: ..... **6**

IP: 192.168.1.1 **7**

Port: 80 **8**

Audio: ☐ **9**

Sandbox: ☐ **10**

Buffertime: 0 **11** Millisecond

Max channels: 0 **12**

(0 stand for all channels)

Description: Device1 description **13**

cancel OK

| Number | Name             | Function                                                                                                             |
|--------|------------------|----------------------------------------------------------------------------------------------------------------------|
| 1      | Type             | H5_DEV_IVS                                                                                                           |
| 2      | Work server      | Work nodes, each of which can start the service                                                                      |
| 3      | Device partition | Mounted partition                                                                                                    |
| 4      | Name             | Device Username                                                                                                      |
| 5      | User name        | Device Username                                                                                                      |
| 6      | Password         | Device password                                                                                                      |
| 7      | IP               | Device IP address                                                                                                    |
| 8      | Port             | Device SDK port                                                                                                      |
| 9      | Audio            | Whether to turn on audio                                                                                             |
| 10     | Sandbox          | Whether to enable sandbox                                                                                            |
| 11     | Buffertime       | The default value is 0, which is mainly used for large-resolution video RTP jitter buffering. Keep the default value |
| 12     | Max channels     | The maximum number of channels to load, default is 0, which means all channels are loaded                            |

|    |             |             |
|----|-------------|-------------|
| 13 | Description | Description |
|----|-------------|-------------|

#### 6.1.1.10 UNV SDK

### UNV SDK Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 80.

IRITY | WEB Configuration | Basic | Device | Cascade

Video devices > Add

Add

Type: H5\_DEV\_UNV **1**

Work server: Server1 **2**

Device partition: DevicePartition **3**

Name: Device1 **4**

User name: admin **5**

Password: ..... **6**

IP: 192.168.1.1 **7**

Port: 80 **8**

API Port: 80 **9**

API Https: ☐ **10**

Audio: ☐ **11**

Sandbox: ☐ **12**

VMS: ☐ **13**

Sub event: ☐ **14**

Max channels: 0 **15**

Description: Device1 description **16**

cancel OK

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_UNV                                      |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |
| 4      | Name             | Device name                                     |
| 5      | User name        | Device Username                                 |

|    |              |                                                                                               |
|----|--------------|-----------------------------------------------------------------------------------------------|
| 6  | Password     | Device password                                                                               |
| 7  | IP           | Device IP address                                                                             |
| 8  | Port         | Device SDK port                                                                               |
| 9  | API Port     | Equipment protocol port, alarm transmission, generally the same as the equipment web port     |
| 10 | API Https    | Whether the device protocol port is enabled for HTTPS                                         |
| 11 | Audio        | Whether to enable audio                                                                       |
| 12 | Sandbox      | Whether to open the sandbox                                                                   |
| 13 | VMS          | Whether real-time video is obtained using VMS                                                 |
| 14 | Sub event    | Whether to enable subscription events                                                         |
| 15 | Max channels | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 16 | Description  | Description                                                                                   |

#### 6.1.1.11 Tiandy SDK

##### Tiandy SDK Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 3000.

JRITY | WEB Configuration | Basic **Device** Cascade

Video devices > Add

Add

Type  1

Work server  2

Device  3

partition

▼ ☐ Root

☒ DevicePartition1

Name  4

User name  5

Password  6

IP  7

Port  8

Audio ☐ 9

Sandbox ☐ 10

Max  11

channels (0 stand for all channels)

Description  12

cancel OK

| Number | Name             | Function                                                                                      |
|--------|------------------|-----------------------------------------------------------------------------------------------|
| 1      | Type             | H5_DEV_TD                                                                                     |
| 2      | Work server      | Work nodes, each of which can start the service                                               |
| 3      | Device partition | Mounted partition                                                                             |
| 4      | Name             | Device name                                                                                   |
| 5      | User name        | Device Username                                                                               |
| 6      | Password         | Device password                                                                               |
| 7      | IP               | Device IP address                                                                             |
| 8      | Port             | Device SDK port                                                                               |
| 9      | Audio            | Whether to enable audio                                                                       |
| 10     | Sandbox          | Whether to open the sandbox                                                                   |
| 11     | Max channels     | The maximum number of channels to load, default is 0, indicating that all channels are loaded |

|    |             |             |
|----|-------------|-------------|
| 12 | Description | Description |
|----|-------------|-------------|

## 6.1.2 Platform

### 6.1.2.1 Hikvision ISC

#### Hikvision ISC Platform Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 443.

IRITY | WEB Configuration | Basic **Device** Cascade

Video devices > Add

Add

|                  |                                                                               |                |                                              |
|------------------|-------------------------------------------------------------------------------|----------------|----------------------------------------------|
| Type             | H5_DEV_HIKISC <b>1</b>                                                        | Name           | Device1 <b>4</b>                             |
| Work server      | Server1 <b>2</b>                                                              | AppKey         | 22936233 <b>5</b>                            |
| Device partition | DevicePartition1 <b>3</b>                                                     | AppSecret      | ..... <b>6</b>                               |
|                  | <input type="text"/> <div> <div>Root</div> <div>DevicePartition1</div> </div> | IP             | 192.168.1.1 <b>7</b>                         |
|                  |                                                                               | Port           | 443 <b>8</b>                                 |
|                  |                                                                               | Audio          | <input checked="" type="checkbox"/> <b>9</b> |
|                  |                                                                               | Sandbox        | <input type="checkbox"/> <b>10</b>           |
|                  |                                                                               | Central record | <input type="checkbox"/> <b>11</b>           |
|                  |                                                                               | Max channels   | 0 <b>12</b>                                  |
|                  |                                                                               |                | (0 stand for all channels)                   |
|                  |                                                                               | Description    | Device1 description <b>13</b>                |

cancel OK

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_HIKISC                                   |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |
| 4      | Name             | Device name                                     |
| 5      | User name        | Device Username                                 |
| 6      | Password         | Device password                                 |
| 7      | IP               | Device IP address                               |

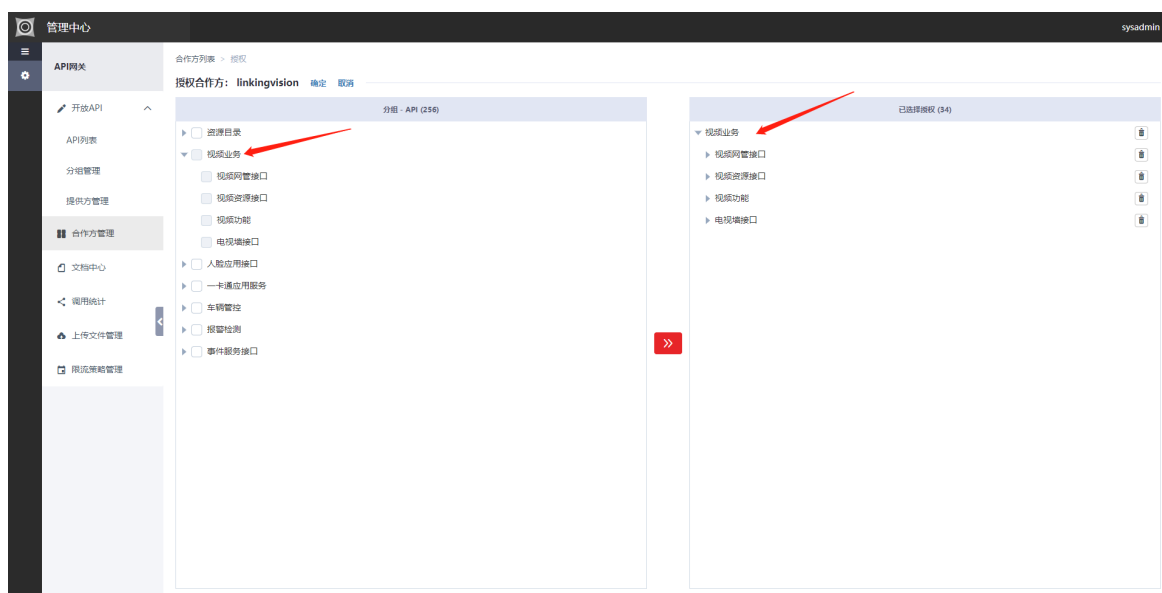
|    |                |                                                                                               |
|----|----------------|-----------------------------------------------------------------------------------------------|
| 8  | Port           | Device SDK port                                                                               |
| 9  | Audio          | Whether to enable audio                                                                       |
| 10 | Sandbox        | Whether to open the sandbox                                                                   |
| 11 | Central record | Does ISC use central storage                                                                  |
| 12 | Max channels   | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 13 | Description    | Description                                                                                   |

The partner AppKey and partner AppSecret can be configured from the Hikvision ISC operation center. The specific method is as follows

1. Enter the operation center (<http://ip:8001/center>), enter the [Status Monitoring] module, select [API Gateway], select the [API Management] function, and enter the API management center.



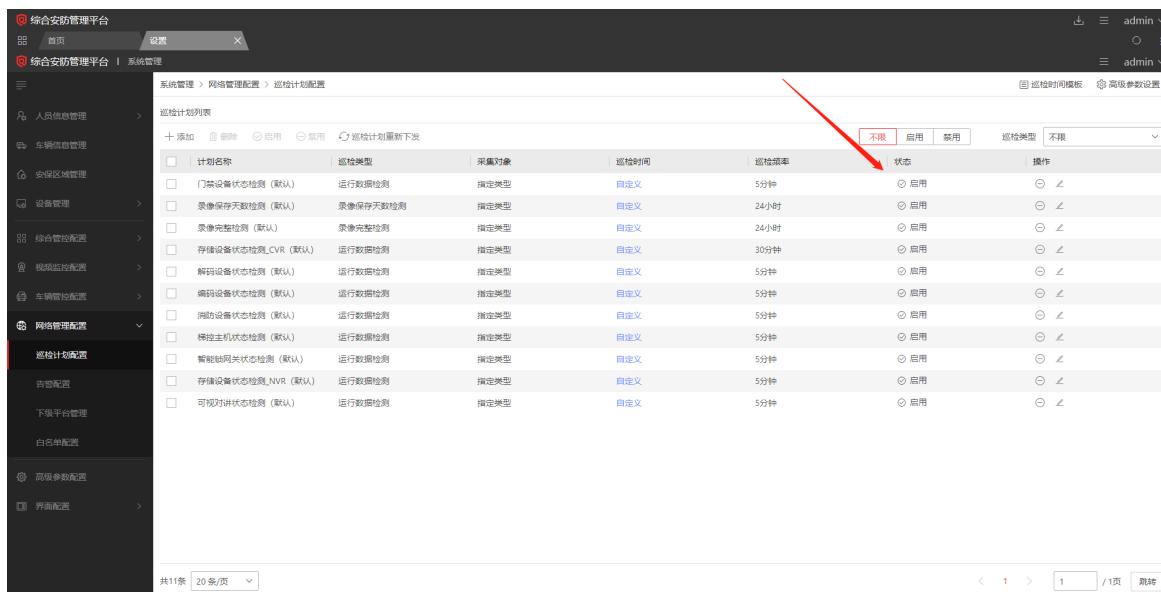
2. Select [Partner Management]. After the platform is installed, an internal partner will be created by default. This partner can be used for interface call testing. The actual running environment needs to create a new partner based on the actual situation.
3. Click on the name of the partner to enter the partner details interface and obtain the partner key (AK) and partner secret (SK). Select the permission to check the video business



The H5S video platform uses the following APIs to integrate with ISC, and it is necessary to ensure that the following APIs are properly authorized.

| API                                | Describe                                                            |
|------------------------------------|---------------------------------------------------------------------|
| /api/resource/v1/cameras           | Paging to obtain monitoring point resources                         |
| /api/nms/v1/online/camera/get      | Obtain the online status of the monitoring point                    |
| /api/video/v1/ptzs/controlling     | Operate the PTZ interface according to the monitoring point number  |
| /api/video/v1/presets/searches     | Query preset point information                                      |
| /api/video/v1/presets/addition     | Set preset point information                                        |
| /api/video/v1/presets/deletion     | Delete preset point information                                     |
| /api/video/v1/cameras/playbackURLs | Get the playback URL of the monitoring point                        |
| /api/video/v1/cameras/previewURLs  | Obtain the URL for previewing and streaming at the monitoring point |

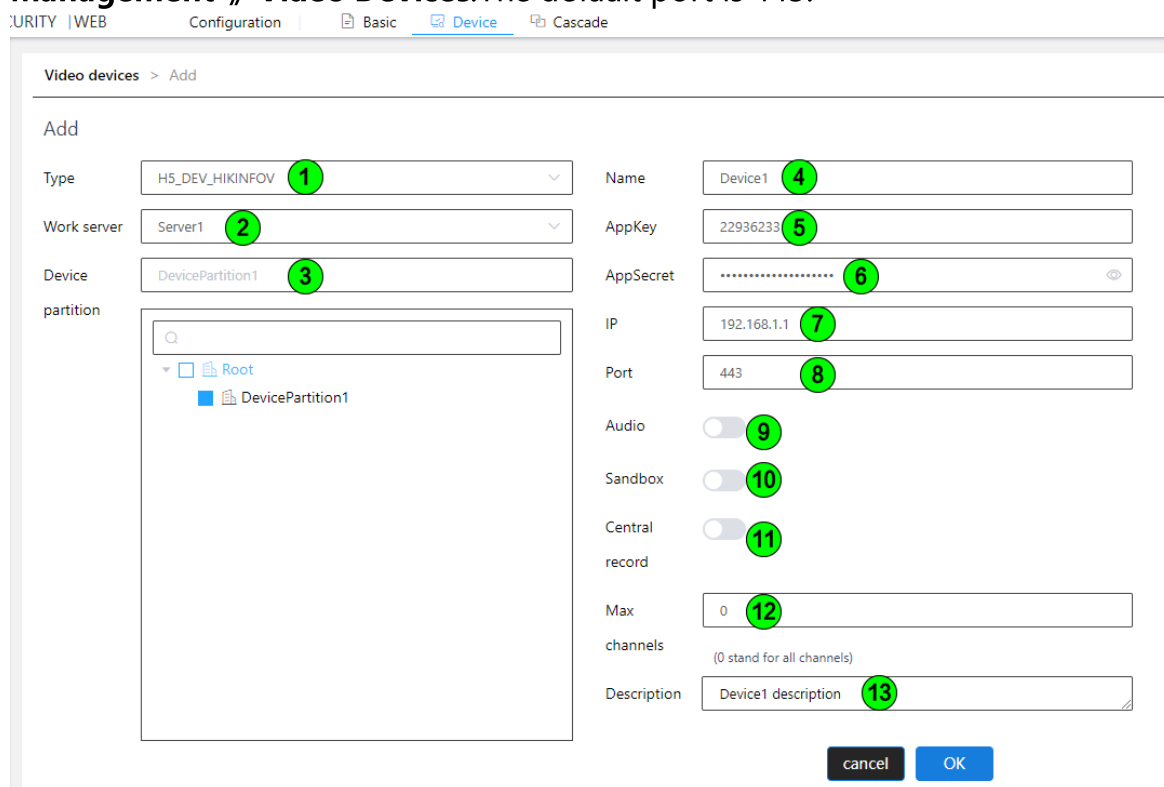
By default, the ISC does not have the function of obtaining device status. You can refer to the following figure to open the inspection plan. If the inspection plan is enabled but still offline, you need to contact Hikvision to check if there is a service that has not been enabled.



### 6.1.2.2 Hikvision Infovision

#### Hikvision Infovision Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 443.



| Numb | Name | Function |
|------|------|----------|
|      |      |          |



| er |                  |                                                                                               |
|----|------------------|-----------------------------------------------------------------------------------------------|
| 1  | Type             | H5_DEV_HIKINFOV                                                                               |
| 2  | Work server      | Work nodes, each of which can start the service                                               |
| 3  | Device partition | Mounted partition                                                                             |
| 4  | Name             | Device name                                                                                   |
| 5  | User name        | Device Username                                                                               |
| 6  | Password         | Device password                                                                               |
| 7  | IP               | Device IP address                                                                             |
| 8  | Port             | Device SDK port                                                                               |
| 9  | Audio            | Whether to enable audio                                                                       |
| 10 | Sandbox          | Whether to open the sandbox                                                                   |
| 11 | Central record   | Does ISC use central storage                                                                  |
| 12 | Max channels     | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 13 | Description      | Description                                                                                   |

### 6.1.2.3 Dahua ICC

#### Dahua ICC Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 443.

USC UNIFIED SECURITY | WEB Configuration Basic **Device** Cascade

Video device > Add

Add

Type  1

Work server  2

Device partition  3

Keywords filter

Root

Name  4

User name  5

Password  6

Client ID  7

Client Secret  8

IP  9

Port  10

Audio ☐ 11

Sandbox ☐ 12

Central record ☐ 13

Max channels  14

(0 stand for all channels)

Description  15

cancel OK

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_DHICC                                    |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |
| 4      | Name             | Device name                                     |
| 5      | User name        | Device Username                                 |
| 6      | Password         | Device password                                 |
| 7      | Client ID        | Client ID                                       |
| 8      | Client Secret    | Client Secret                                   |
| 9      | IP               | Device IP address                               |
| 10     | Port             | Device SDK port                                 |
| 11     | Audio            | Whether to enable audio                         |
| 12     | Sandbox          | Whether to open the sandbox                     |

|    |                |                                                                                               |
|----|----------------|-----------------------------------------------------------------------------------------------|
| 13 | Central record | Does ISC use central storage                                                                  |
| 14 | Max channels   | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 15 | Description    | Description                                                                                   |

## 6.1.2.4 Dahua DSS

**Dahua DSS Configuration**

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 9000.

The screenshot shows the 'Add' form for video devices in the Dahua DSS Configuration interface. The form is divided into two main sections: 'Add' and 'Video devices > Add'. The 'Add' section contains the following fields and controls:

- Type:** A dropdown menu with 'H5\_DEV\_DHDSS' selected (1).
- Work server:** A dropdown menu with 'Server1' selected (2).
- Device partition:** A dropdown menu with 'DevicePartition1' selected (3).
- Name:** A text input field with 'Device1' (4).
- User name:** A text input field with 'admin' (5).
- Password:** A text input field with masked characters (6).
- IP:** A text input field with '192.168.1.1' (7).
- Port:** A text input field with '9000' (8).
- Audio:** A toggle switch (9).
- Sandbox:** A toggle switch (10).
- Max channels:** A text input field with '0' (11).
- Description:** A text input field with 'Device1 description' (12).

The 'Video devices > Add' section shows a tree view of the device structure, including 'Root' and 'DevicePartition1'.

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_DHDSS                                    |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |
| 4      | Name             | Device name                                     |
| 5      | User name        | Device Username                                 |
| 6      | Password         | Device password                                 |

|    |              |                                                                                               |
|----|--------------|-----------------------------------------------------------------------------------------------|
| 7  | IP           | Device IP address                                                                             |
| 8  | Port         | Device SDK port                                                                               |
| 9  | Audio        | Whether to enable audio                                                                       |
| 10 | Sandbox      | Whether to open the sandbox                                                                   |
| 11 | Max channels | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 12 | Description  | Description                                                                                   |

#### 6.1.2.5 UNV VM6300

### UNV VM6300 Configuration

Add and delete video devices in **Configuration-» Device-» Device Management-» Video Devices**. The default port is 80.

Video device > Add

Add

|                  |                                                                           |              |                                    |
|------------------|---------------------------------------------------------------------------|--------------|------------------------------------|
| Type             | H5_DEV_UNVVM <b>1</b>                                                     | Name         | UNVVM6300 <b>4</b>                 |
| Work server      | Server1 <b>2</b>                                                          | User name    | admin <b>5</b>                     |
| Device partition | Root <b>3</b>                                                             | Password     | ***** <b>6</b>                     |
|                  | <input type="text" value="Keywords filter"/> <div> <div>Root</div> </div> | IP           | 192.168.100.130 <b>7</b>           |
|                  |                                                                           | Port         | 80 <b>8</b>                        |
|                  |                                                                           | Audio        | <input type="checkbox"/> <b>9</b>  |
|                  |                                                                           | Sandbox      | <input type="checkbox"/> <b>10</b> |
|                  |                                                                           | Max channels | 0 <b>11</b>                        |
|                  |                                                                           |              | (0 stand for all channels)         |
|                  |                                                                           | Description  | Device1 description <b>12</b>      |

| Number | Name             | Function                                        |
|--------|------------------|-------------------------------------------------|
| 1      | Type             | H5_DEV_DHICC                                    |
| 2      | Work server      | Work nodes, each of which can start the service |
| 3      | Device partition | Mounted partition                               |

|    |              |                                                                                               |
|----|--------------|-----------------------------------------------------------------------------------------------|
| 4  | Name         | Device name                                                                                   |
| 5  | User name    | Device name                                                                                   |
| 6  | Password     | Device Username                                                                               |
| 7  | IP           | Device IP address                                                                             |
| 8  | Port         | Device SDK port                                                                               |
| 9  | Audio        | Whether to enable audio                                                                       |
| 10 | Sandbox      | Whether to open the sandbox                                                                   |
| 11 | Max channels | The maximum number of channels to load, default is 0, indicating that all channels are loaded |
| 12 | Description  | Description                                                                                   |

The platform uses the following APIs to integrate with VM6300. Ensure that the following APIs are properly authorized.

| API                                   | Describe                                           |
|---------------------------------------|----------------------------------------------------|
| POST /VIID/login/v2                   | User login interface V2                            |
| GET /VIID/hadesadapter/user/keepalive | Login to Stay Alive                                |
| GET /VIID/query                       | Query the list of resources under the organization |
| GET /VIID/live/player/build           | Register a broadcast channel                       |
| GET /VIID/live/player/release         | Log out of the playback channel                    |
| POST /VIID/live/start                 | Start RTSP live                                    |
| POST /VIID/live/stop                  | Stop RTSP Live                                     |
| POST /VIID/ptz/start                  | Start the control of the pan-tilt head             |
| POST /VIID/ptz/ctrl                   | Send PTZ control command                           |
| GET /VIID/ptz/query/preset            | Query preset position                              |
| GET /VIID/ptz/preset/set              | Set the preset position                            |
| DELETE /VIID/ptz/preset               | Delete preset position                             |
| GET /VIID/ptz/preset/use              | Use preset position                                |
| POST /VIID/vod/record/query           | Video inquiry                                      |
| POST /VIID/vod/record/url             | Video playback query                               |

POST /VID/common/queryRecordRetrieval

Video inquiry

### 6.1.3 Access Control Platform ZK6000

#### Access Control Platform ZK6000

The system supports adding ZK6000. After adding, the system automatically synchronizes the access control controller/door/card reader, and can view the status of the door and remotely control the door on the map.

#### Operation Steps

Add and delete in **Configuration-» Device-» Device Management-» Access Control Device**.

The screenshot shows the 'Add' form for 'Access control equipment'. The form is titled 'Access control equipment > Add'. It contains several input fields: Type (ZK6000), Name (Access1), Work server (Server1), Protocol (Https), Device (DevicePartition1), IP (192.168.1.1), Port (8000), accessToken (BBA43ED398E1F88AD4573E4E7491BE8D), and Description (AccessDevice description). There is a tree view for 'Device partition' showing 'Root' and 'DevicePartition1'. At the bottom right are 'cancel' and 'OK' buttons.

1. Click the **Add** button
2. Type default
3. Default of the home server
4. Select device partition
5. Customize the name
6. Default of agreement
7. Enter the IP address of the access control device client
8. Enter the port of the access control device client
9. In the ZK6000 access control system, navigate to Web **System Management-» Permission Management-» API Authorization-» Add-» Client ID Definition**. After adding, there will be a Client Key field. Fill the key value into the accessToken input box
10. Customize the note

**Caution**

After adding here, you also need to add the access control on the access control device client. The platform will only show online status.

## 6.2 Video Configuration

### Introduction To Video Configuration

Configure the video recording schedule for the devices that have been added to the platform.

#### 6.2.1 Channel Setting

##### Introduction To Channel Setting

Configure the longitude and latitude of the camera and then upload the image. Configure the camera video recording in **Configuration -> Device -> Video Configuration -> Channel setting**.

| Serial number | Name    | Device partition | Token                                   | Operational | Configuration |
|---------------|---------|------------------|-----------------------------------------|-------------|---------------|
| 1             | 125     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-36 |             |               |
| 2             | 110     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-35 |             |               |
| 3             | 104(4G) | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-34 |             |               |
| 4             | 116     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-33 |             |               |

### General Operation Steps

1. Select the device under the root node and click the configuration button (located at the serial number ① position).

| Serial number | Name    | Device partition | Token                                   | Operational | Configuration |
|---------------|---------|------------------|-----------------------------------------|-------------|---------------|
| 1             | 125     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-36 |             |               |
| 2             | 110     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-35 |             |               |
| 3             | 104(4G) | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-34 |             |               |
| 4             | 116     | DevicePartition2 | 84cabf38-c2dc-49fa-9a25-588449cb0886-33 |             |               |

2. Enter longitude
3. Enter latitude

USC UNIFIED SECURITY | WEB

Configuration

Basic

Device

Cascade

Channel setting > General

General

Token

84cabf38-c2dc-49fa-9a25-588449cb0886--36

Name

125

Longitude

116.0571

Latitude

39.6106

Cancel

OK

General

Recording

Device management ^

Video device

Access control device

Video configuration ^

Channel setting

Recording status

Camera point

4. Click **OK**

5. Click the buttons of "Previous" and "Next" under the operation bar on the return channel configuration page



#### Caution

*One-click mapping: Map all cameras under the selected partition to the selected map. If there are cameras in the partition that have not entered their latitude and longitude, they will not be mapped by default.*

*One-click image removal: Remove all cameras under the partition from the map.*

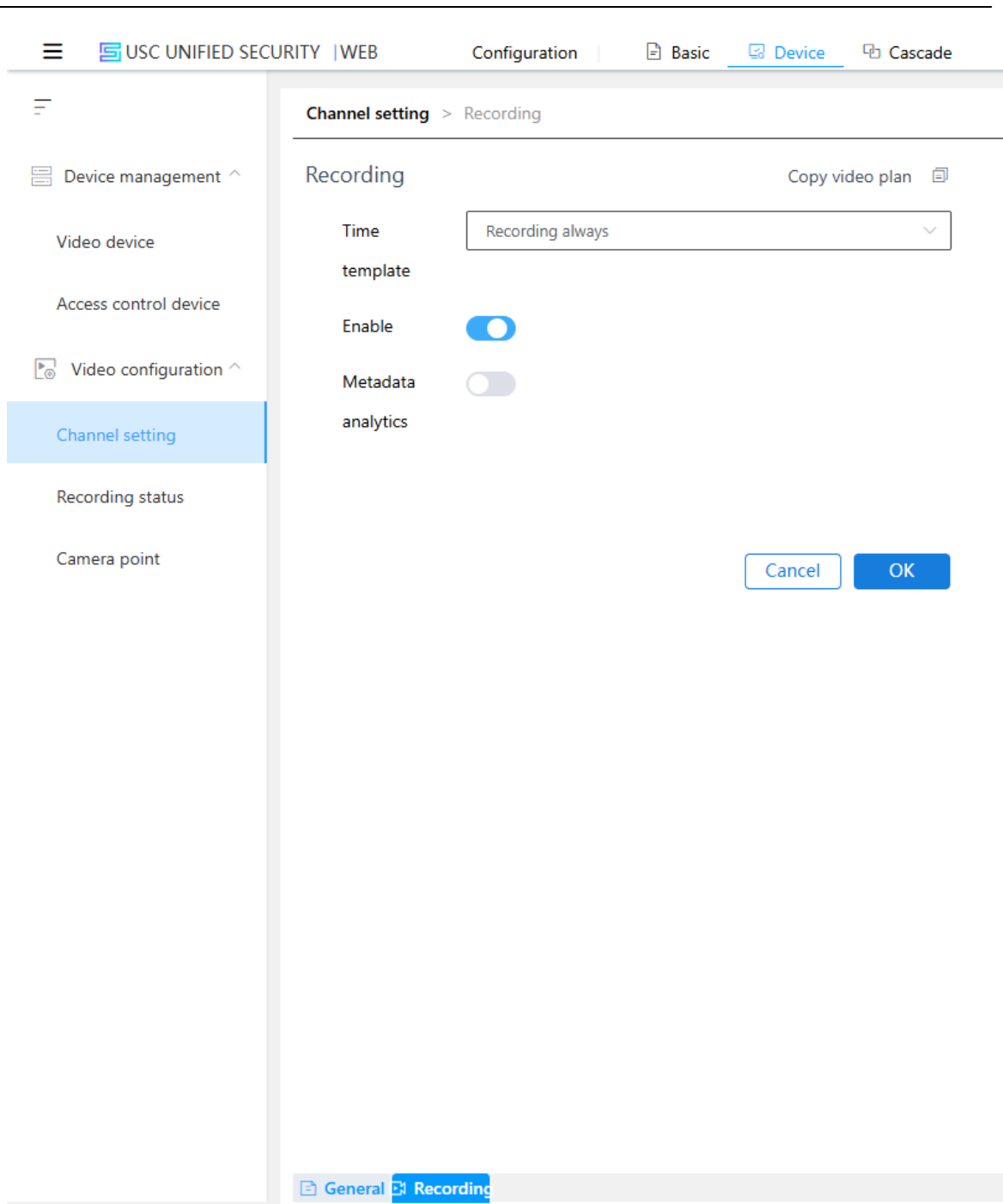


### Recording Operation Steps

1. Select the device under the root node and click the configuration button
2. Click **Recording**
3. Select Time template
4. Enable: Turn on
5. Click **OK**



*Copy video plan: Copy the camera template with configured video to other cameras.*



## 6.2.2 Recording Status

### Introduction To Recording Status

Check the number of camera channels, number of recordings, disk read and write, in **Configuration -> Device -> Video Configuration -> Recording Status**.

### Operation Steps

Click **Details** (located at the serial number ① position)

The screenshot displays the 'Recording status' page in the USC Unified Security WEB interface. The left sidebar shows the navigation menu with 'Recording status' selected. The main content area shows a table with columns: 'Work server', 'Number of recordings', and 'Number of channels'. A table entry for 'Server1' shows 1 recording and 14 channels. A green circle with the number 1 highlights the 'Details' link next to the table entry. Below the table, the 'Recording status > Details' page is shown, featuring a circular progress indicator for '1/14' and a detailed view of recording metrics for various storage paths.

| Work server | Number of recordings | Number of channels |
|-------------|----------------------|--------------------|
| Server1     | 1                    | 14                 |

**Recording status > Details**

1/14 | 1 Number of recordings | 14 Number of channels

| Read time | Read speed | Write time | Write speed | Mount point | Used/Alt    |
|-----------|------------|------------|-------------|-------------|-------------|
| 0 ms      | 0 KB/s     | 0 ms       | 0 KB/s      | /dev/dm-0   | 50GB/988GB  |
| 0 ms      | 0 KB/s     | 0 ms       | 0 KB/s      | /dev/dm-2   | 0.0GB/9GB   |
| 0 ms      | 0 KB/s     | 0 ms       | 0 KB/s      | /dev/sda1   | 0.0GB/0.3GB |
| 0 ms      | 0 KB/s     | 0 ms       | 0 KB/s      | /dev/sda6   | 0.2GB/1.0GB |

## 6.2.3 Camera Point

### Introduction To Camera Point

Enable and disable cameras, control the number of authorized cameras, in **Configuration -> Device -> Video Configuration -> Camera point**.

### Operation Steps

1. Select the device under the root node
2. Enable/Disable
3. Click **Save**



### Caution

*All on: Change all the selected devices and cameras below to the on state.*

*All Off: Turn off all cameras selected below.*

*Disable offline: Change all offline cameras under the selected device to disabled status.*

*Save All: Save all the selected devices and all the cameras below.*

*Copy button: copy the on/off status to other cameras.*

USC UNIFIED SECURITY | WEB

Configuration

BasicDeviceCascade

Device management

Video device

Access control device

Video configuration

Channel setting

Recording status

Camera point

Root

Keywords filter

Root

DevicePartition1

DevicePartition2

Device1

125

104(4G)

116

110

209

site001

34020000001180010176

GAC\_DE

view1

view3

view2

view4

view5

All enableAll disableDisable offlineSave all

Channel: 14

Enable channel: 14

| Serial number | Name    | Token                                   | Enable/Disable | Keywords filter |
|---------------|---------|-----------------------------------------|----------------|-----------------|
| 1             | 125     | 84cabf38-c2dc-49fa-9a25-588449cb0886-36 | <div></div>    | <div>Save</div> |
| 2             | 104(4G) | 84cabf38-c2dc-49fa-9a25-588449cb0886-34 | <div></div>    | <div>Save</div> |
| 3             | 116     | 84cabf38-c2dc-49fa-9a25-588449cb0886-33 | <div></div>    | <div>Save</div> |
| 4             | 110     | 84cabf38-c2dc-49fa-9a25-588449cb0886-35 | <div></div>    | <div>Save</div> |

## 7. Monitoring

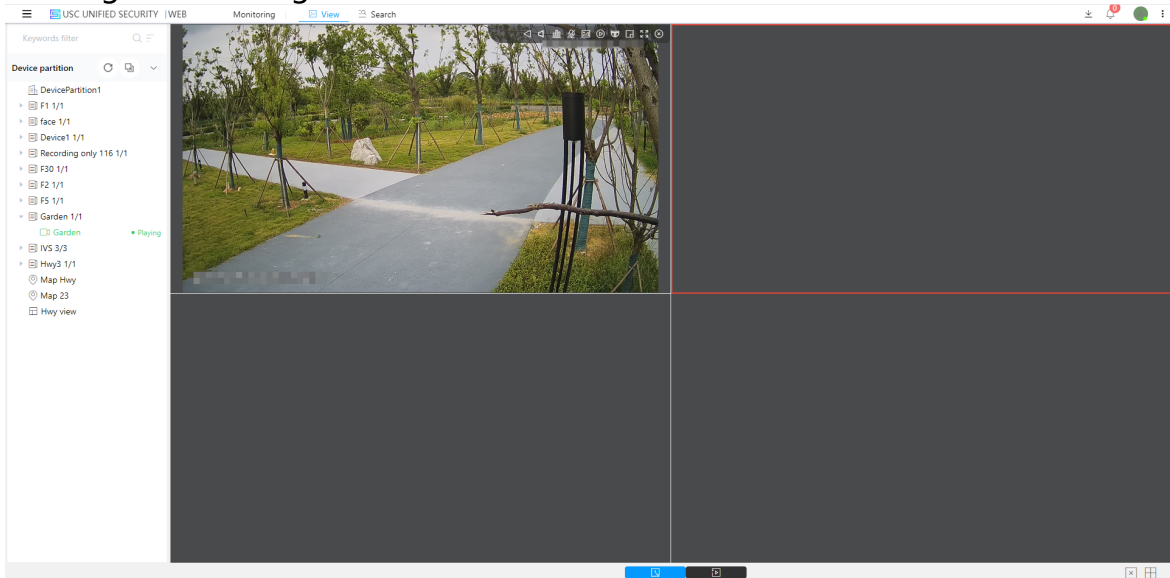
---

## 7 Monitoring

### 7.1 Liveview

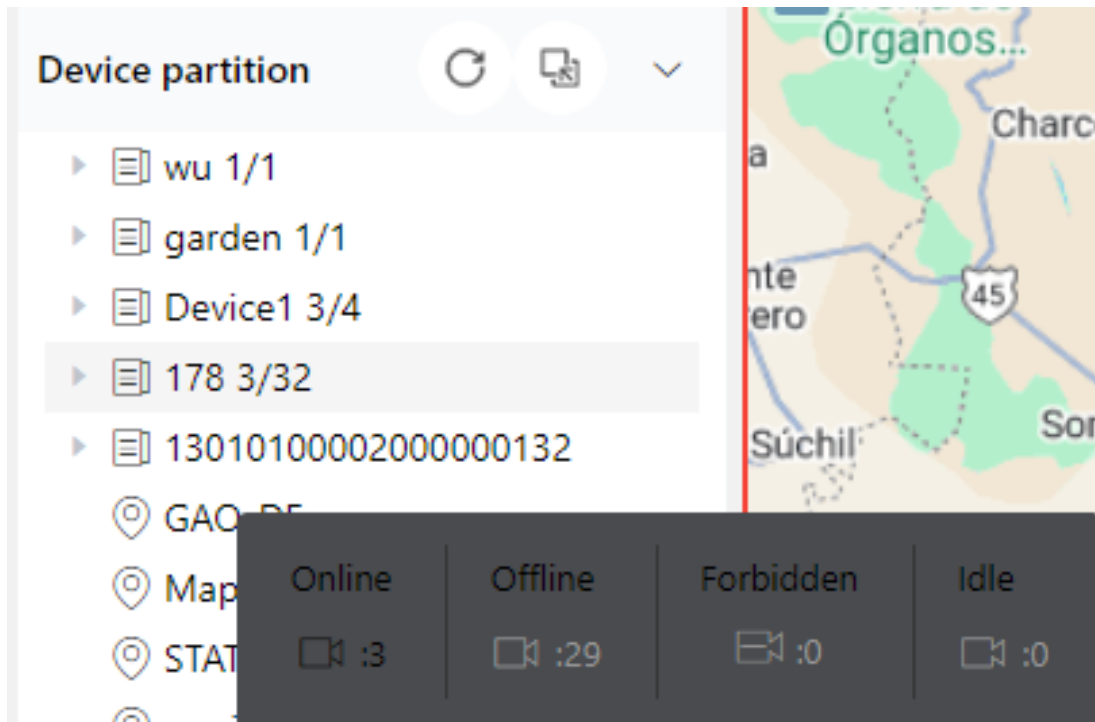
#### Liveview

Click the device under the root node on the left side of the interface or drag it to the grid on the right side.



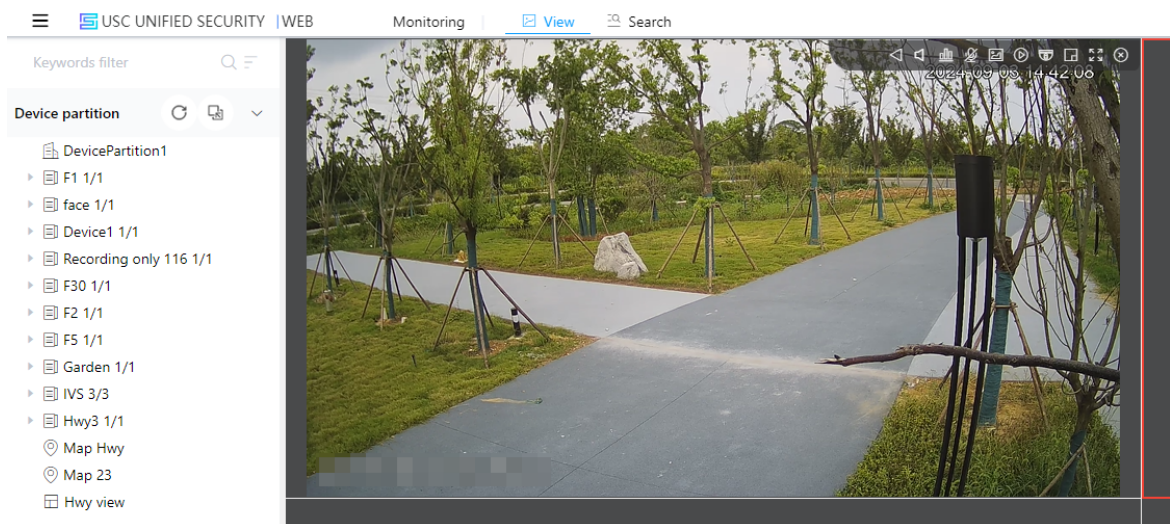
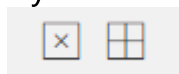
Introduction to the functions related to the device partition bar:

1. The refresh button is used to refresh the online, offline, disabled, and idle status of the device obtained after adding the device, as well as the number of device channels obtained
2. The switch button is used to switch between device partitions and logical partitions
3. The down arrow is used to expand the device list
4. Right click the device to view the device channel status



Close all videos

Switch between 1, 3, 4, 6, 7, 9, 13, 16, 25 grid layouts and customize the view layout.



The buttons in the upper right corner of the video are described from left to right as follows:

| Number | Name                            | Function                                                                                                                                                                                                                         |
|--------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Play Protocol                   | View the currently used playback protocol                                                                                                                                                                                        |
| 2      | Voice                           | After opening, you can listen to the sound transmitted from the device.(The premise is that the device itself has properly configured audio input and output, and the audio button is turned on when adding it to the platform.) |
| 3      | View video encoding information | Video information: encoding type, resolution, frame rate, bit rate<br>Audio information: encoding type, sampling rate, sampling bit width, number of channels                                                                    |
| 4      | Intercom                        | After opening, you can talk to the device (Note: Currently only supports Hikvision and Dahua cameras, and requires HTTPS access to the platform)                                                                                 |
| 5      | Screenshot                      | Intercept video images and save them in the client                                                                                                                                                                               |
| 6      | Videotape                       | Start and stop platform video recording.(Note: After activation, the button will turn red, and a red dot will appear next to the device below the root node to indicate that it is in the video recording state.)                |
| 7      | PTZ control                     | Refer to the control of the pan-tilt head                                                                                                                                                                                        |
| 8      | Electronic PTZ                  | Reference electronic PTZ                                                                                                                                                                                                         |
| 9      | Full screen                     | Video full screen                                                                                                                                                                                                                |
| 10     | Close                           | Close the current video                                                                                                                                                                                                          |

## 7.2 View

### View

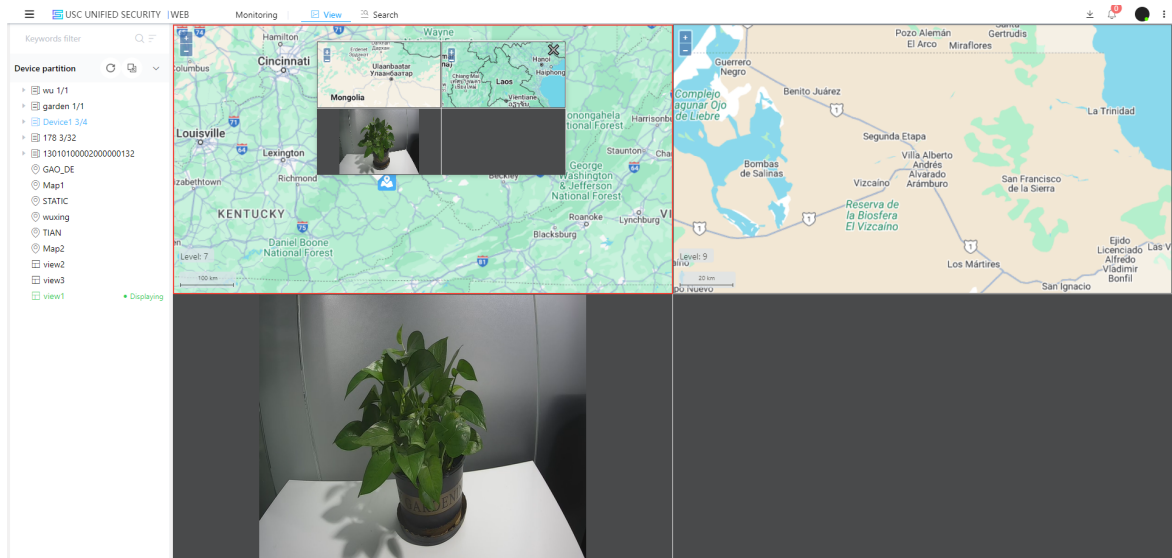
1. Click the view under the root node on the left side of the interface, or click and drag it to the grid on the right side to play.



#### **Caution**

*Because views can store maps, and maps can also store views. So after playing the view, you can see the map, and you can also click the blue button in the map to view the view from the map.*





## 7.3 Electronic PTZ

### Electronic PTZ

Both live and playback videos support electronic zooming in.

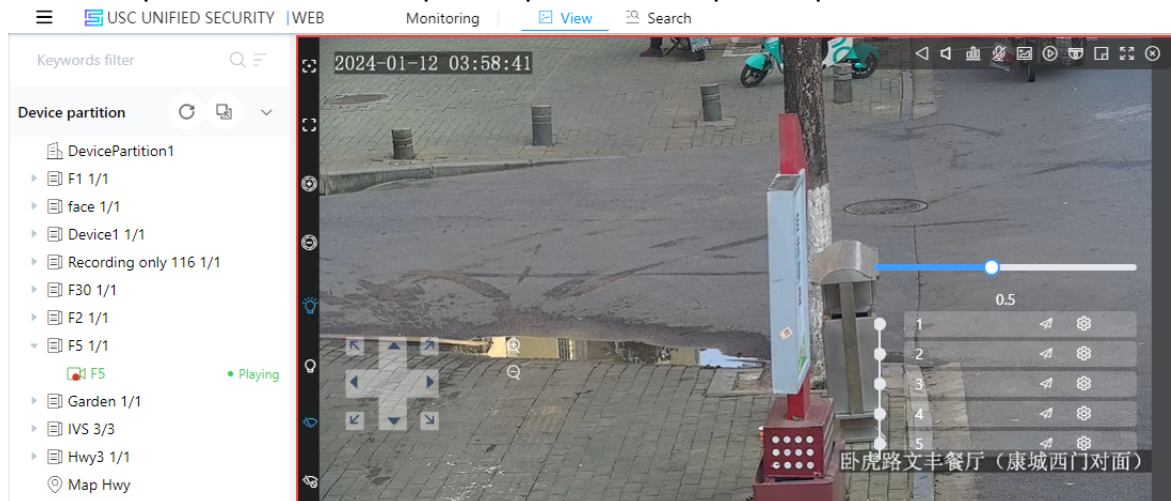


1. After clicking the electronic zoom button, a video window will appear in the lower right corner.
2. You can zoom in and out of the window size by using the mouse wheel, and then click the window to move it.

## 7.4 PTZ Control

### PTZ Control

1. Introduce from left to right, focusing on zooming in and out, aperture zooming in and out, light switch, wiper switch.
2. Rotate in all directions, including up and down, left and right, as well as left and right.
3. Zoom in and out of the screen.
4. The speed of the pan-tilt head is 0.5 (adjustable).
5. Preset position name, call preset position, set preset position.

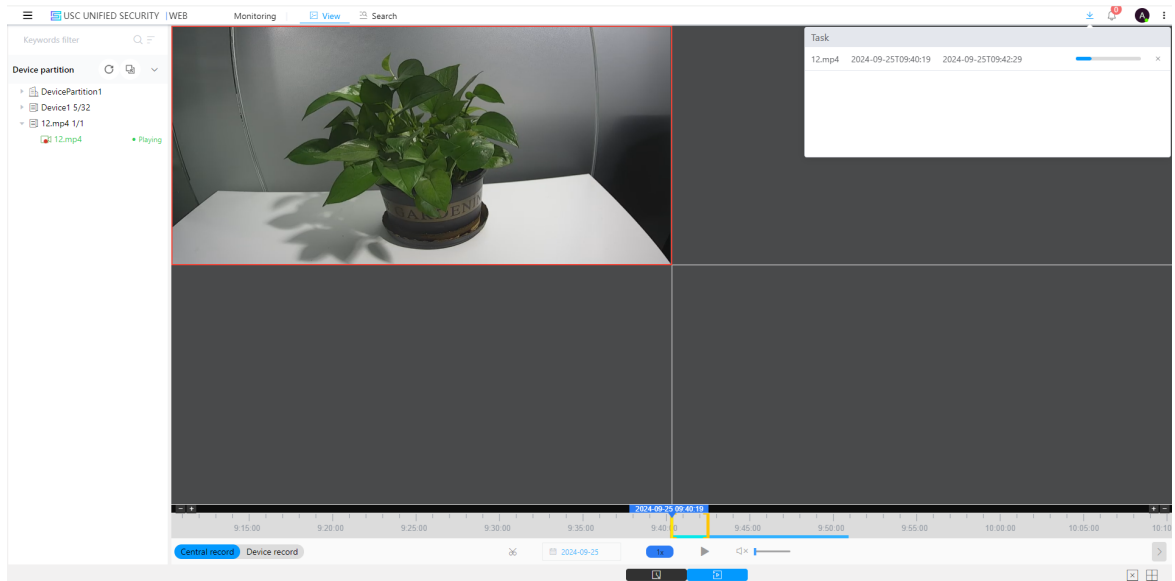


## 7.5 Playback

### Playback

Playback sub-center storage and device storage. Center storage refers to the devices that have video recording enabled on the platform, while device storage refers to the video recordings that come with the device itself (such as those stored in video recorders). So please select the corresponding storage mode when playing back, otherwise the playback will not work properly.

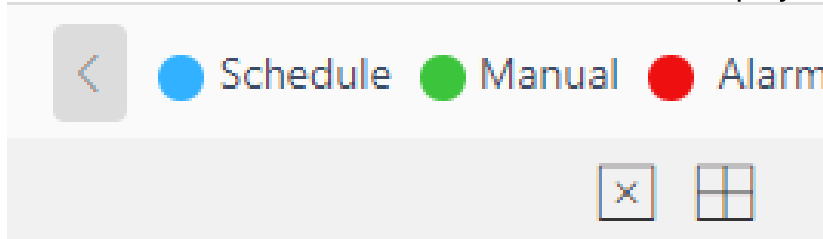
1. Select the device under the root node.
2. Select the storage mode. If you need to view the video of the device on the platform, select central storage. If you need to view the video of the device itself, select device storage.
3. Drag the timeline with the mouse, and use the mouse wheel or click the + - buttons to zoom in and out of the timeline (optional operation).
4. Select playback time (optional operation).
5. Select playback speed (optional operation).
6. Play and pause (optional operation).
7. Turn on and off the sound (optional operation).
8. Video cropping, cropping video export, (optional operation).



Click the < button to view the video type

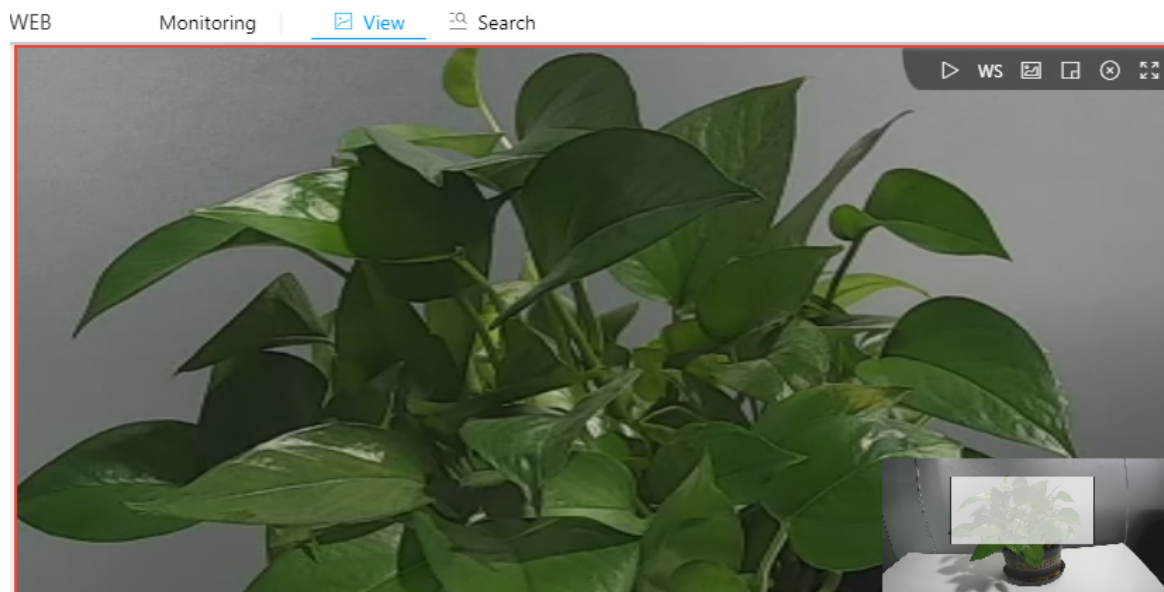
Click the X button to close all replays

Click the **Palace Grid** button to switch back to the playback palace grid

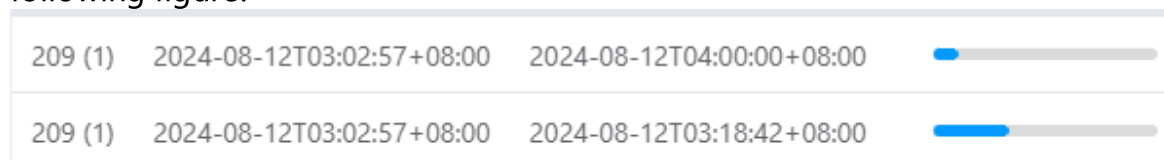


### ⚠ Caution

*The buttons in the grid are introduced from left to right. View the protocol used for current playback, client screenshot, electronic zoom-in, close playback, and full screen zoom-in.*



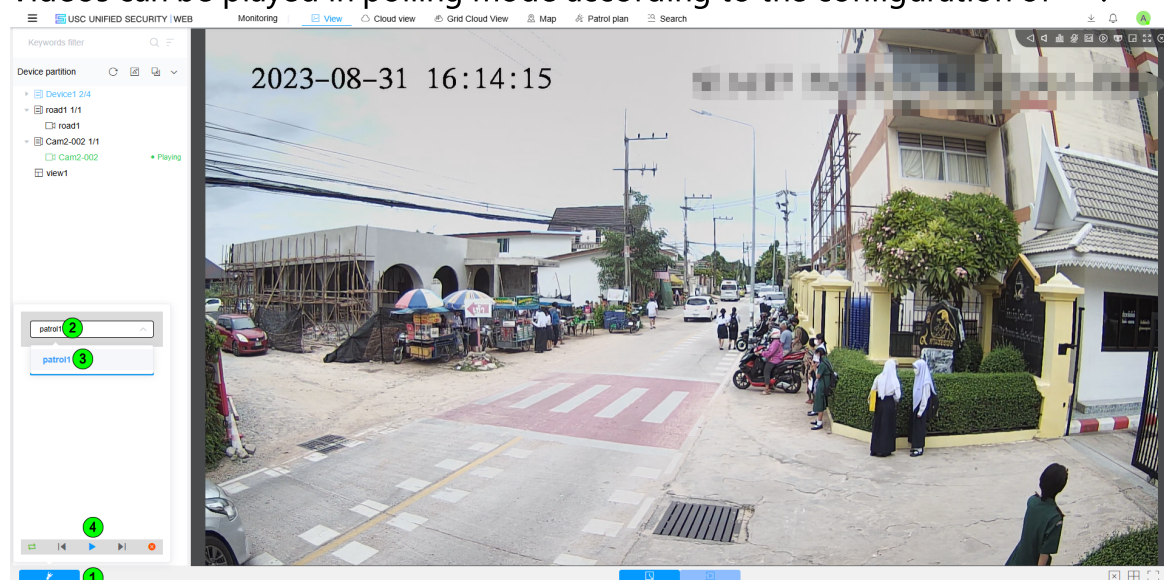
You can view the progress of video cropping in the taskbar, as shown in the following figure:



## 7.6 Video Patrol

### Video Patrol

Videos can be played in polling mode according to the configuration of \*\*\*.





## 7.7 Map

### Open The Map

1. Click the view under the root node on the left side of the interface, or click and drag it to the grid on the right side to play.



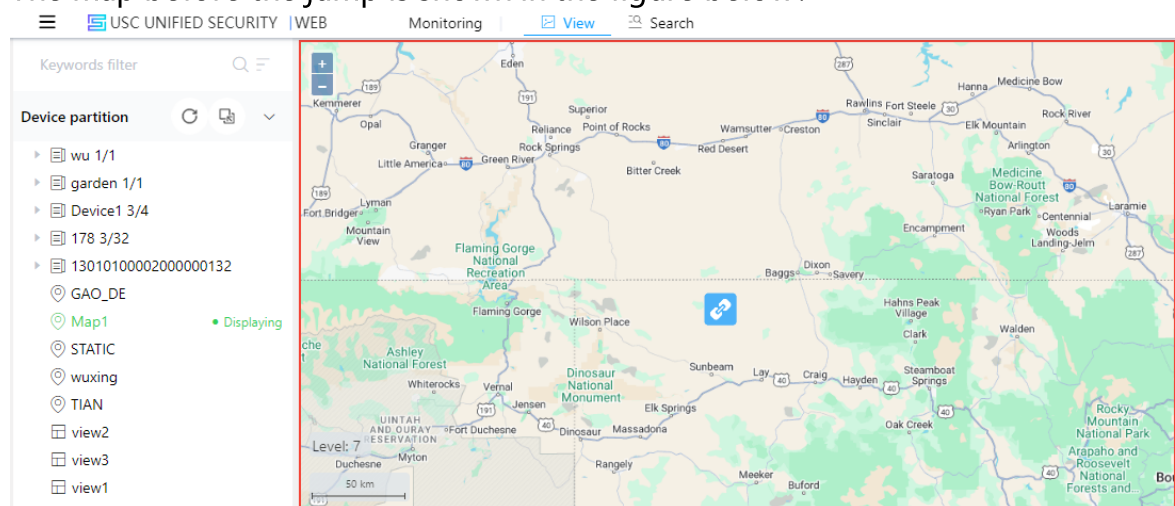
#### Caution

*Because maps can embed maps, views, cameras, and access control, embedded views and cameras can be viewed in the map, and then maps can be jumped between to achieve multi-level map relationships.*

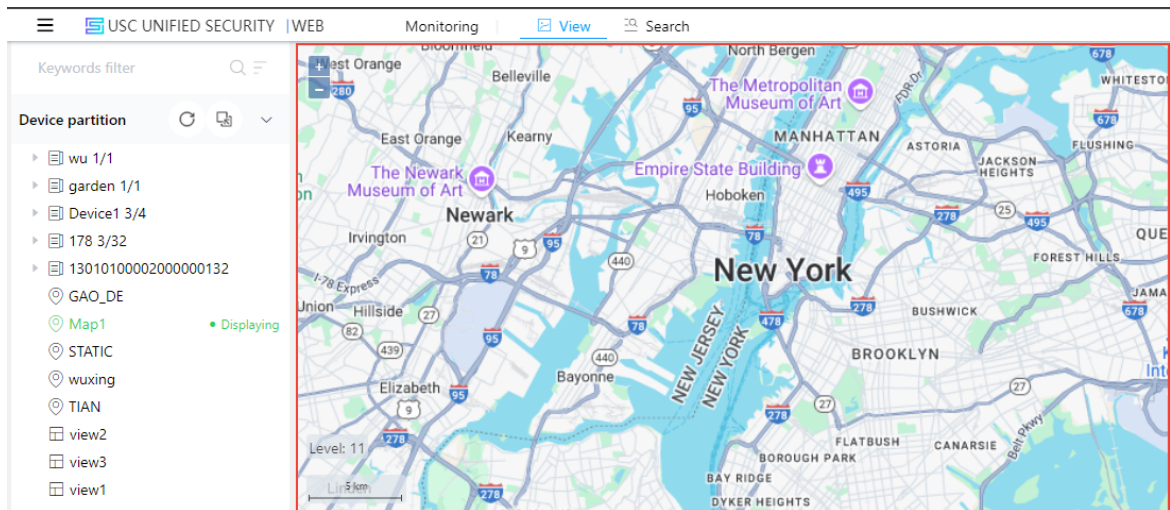
The buttons in the map are described from left to right:

1. Zoom in on the map.
2. Zoom out the map.
3. Map-to-map jump links.
4. Full screen map.
5. Close the map.

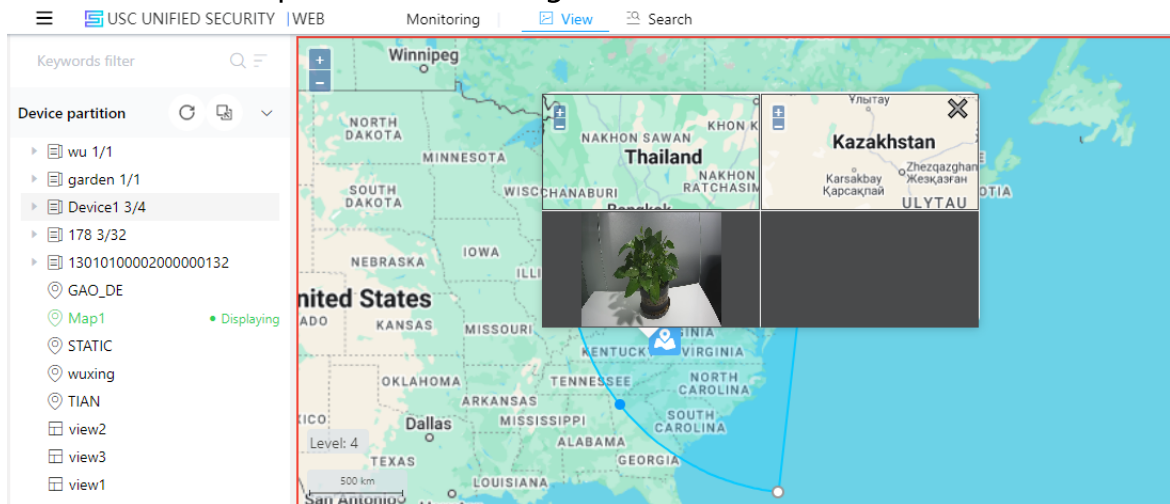
The map before the jump is shown in the figure below:



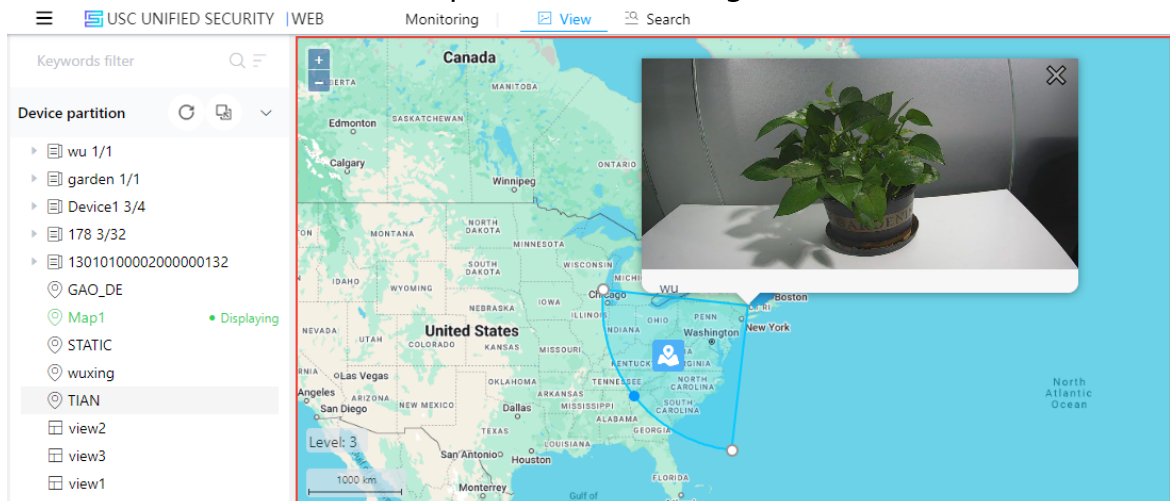
The map will jump to the following figure:



The view in the map is shown in the figure below:



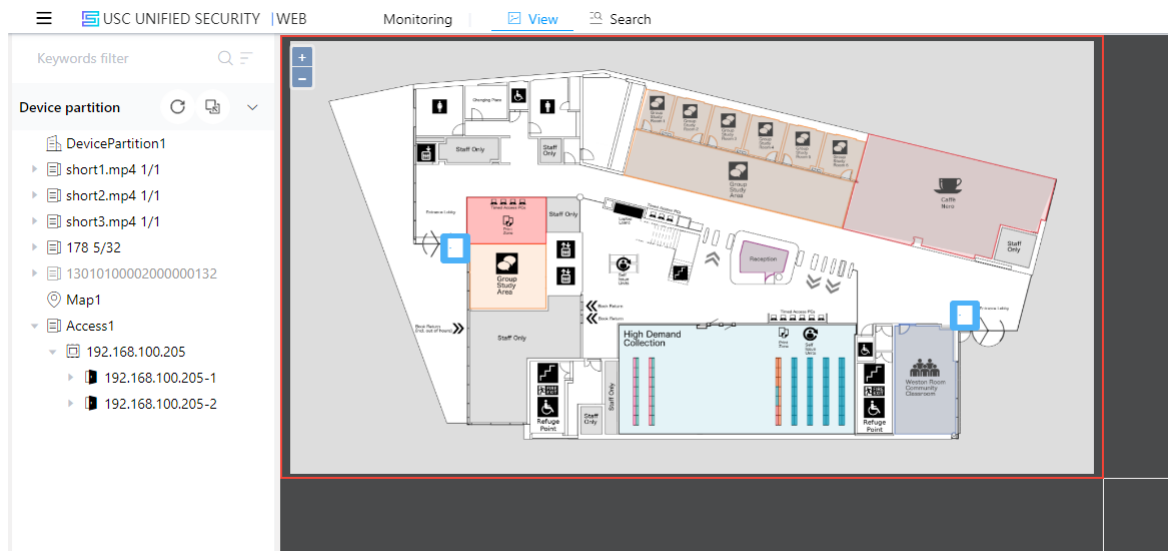
The camera is shown in the map as shown in the figure:



## 7.8 Access Control

### Access Control

When adding a map, drag the access control device to the map, and then click on the map display under **Monitoring-» View**. After the map is displayed, you can click on the Open and Close buttons in the image to remotely control the access control switch.

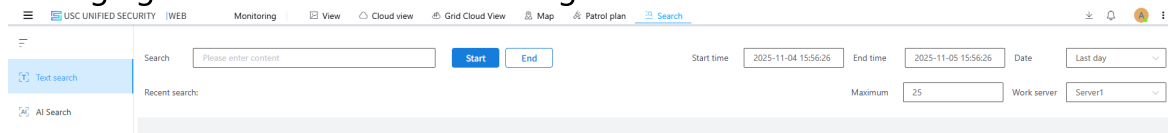


## 7.9 Search

### 7.9.1 Text search

#### Text search

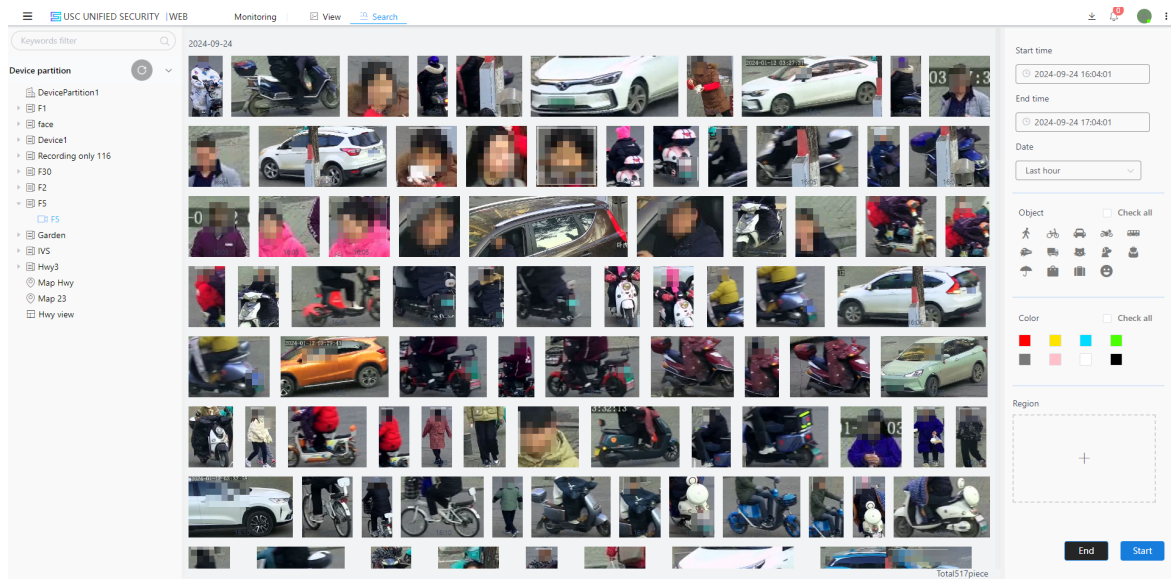
Go to **Monitoring-» Search-» Text search** to modify the search criteria. The modifiable parameters include: Text, Time, Maximum Quantity, and Belonging Server. Please refer to the figure below:



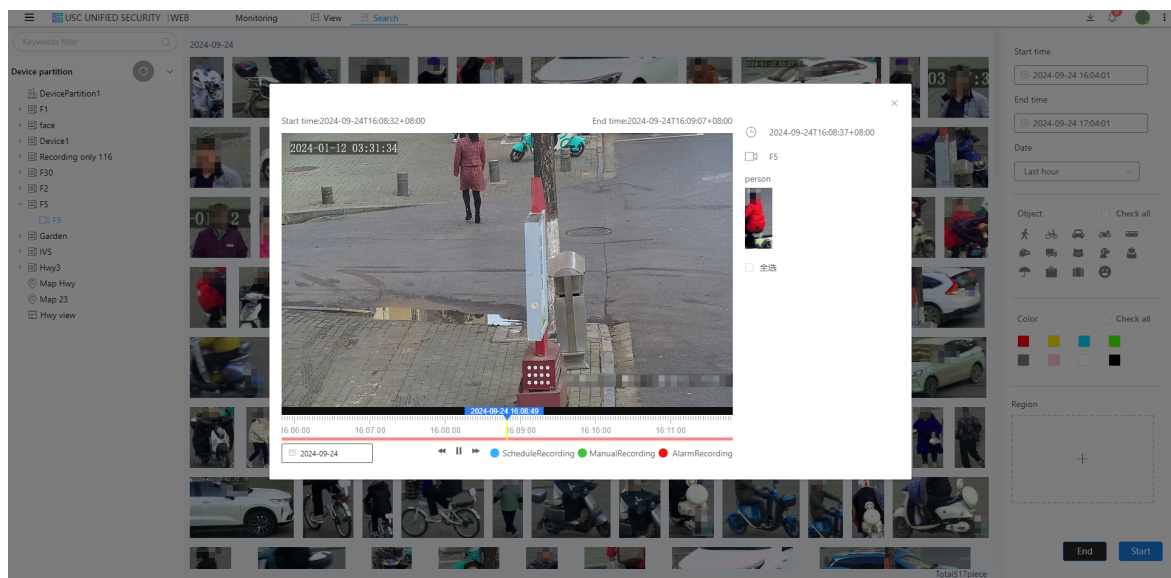
### 7.9.2 AI Search

#### AI Search

The video database can store metadata for deep learning inference, thereby enabling data structuring. Users can quickly search for metadata, thereby enabling post-event rapid retrieval functions. **Enter View-» Device Partition-» Root Node** to select the device to search, and then modify the search criteria. The parameters that can be modified include: time, object type, color, and the area where the object is located. Refer to the following figure:



If you need to view the detailed information of an object, you can click on the object and a playback window for the object will pop up. Refer to the following figure:



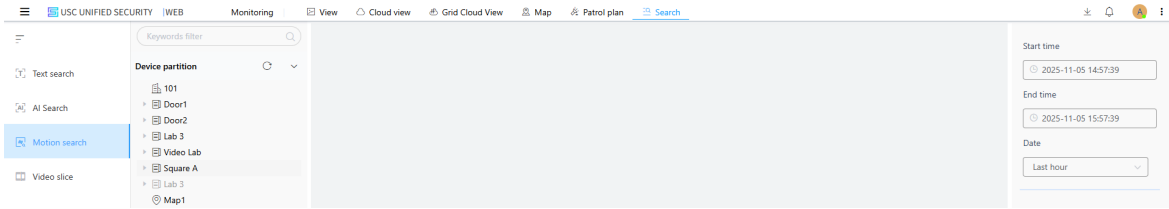
### 7.9.3 Motion search

#### Motion search

Go to **Monitoring-» Search-» Motion Search**, and select the devices to be searched under the device partition.

The modifiable parameter is: Date and Time. Please refer to the figure below:

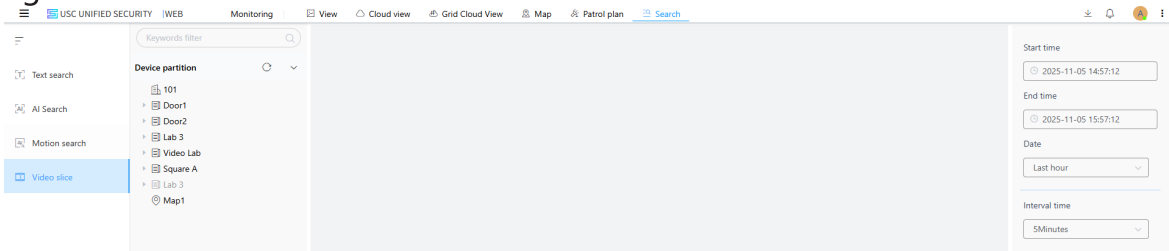




7.9.4 Video slice

Video slice

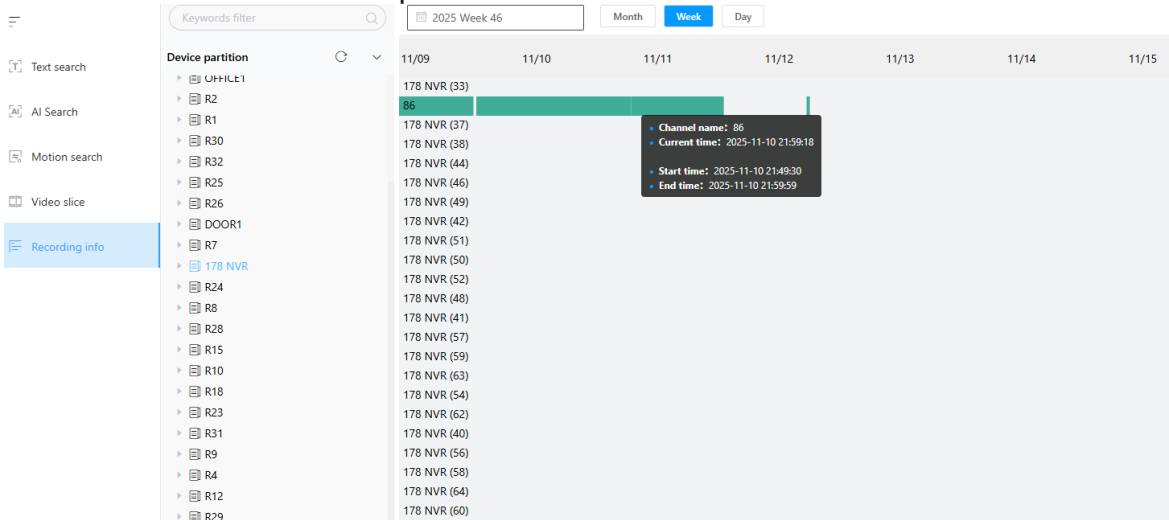
Go to **Monitoring-» Search-» Video slice**, and select the devices to be searched under the device partition.  
The modifiable parameters include: Time, Interval Time. Please refer to the figure below:



7.9.5 Recording info

Recording info

Go to **Monitoring-» Search-» Recording info**, and select the devices to be searched under the device partition.

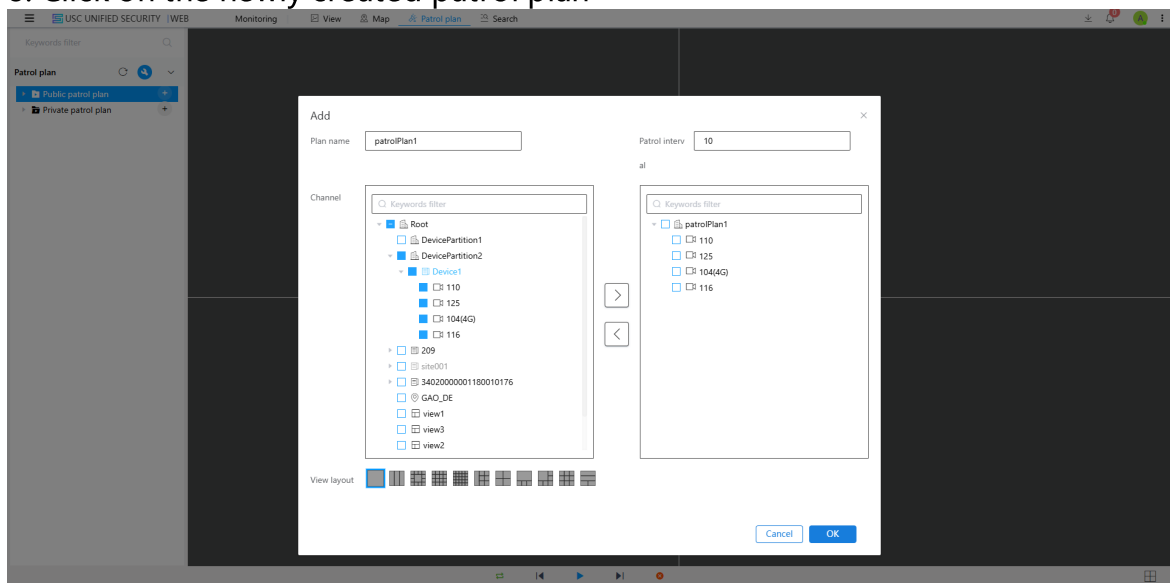


## 7.10 Patrol Plan

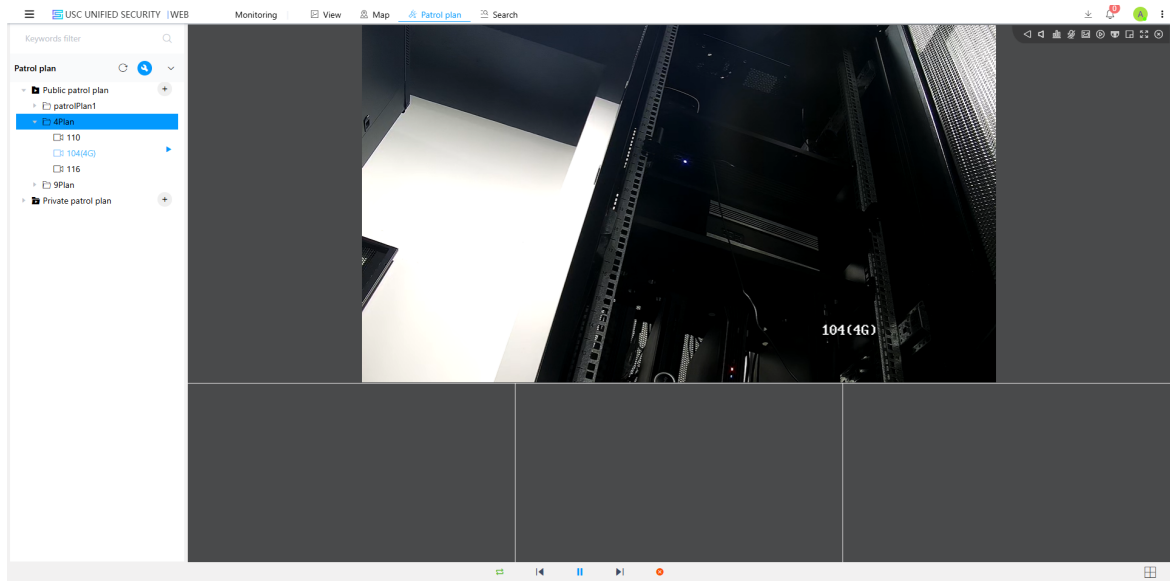
### Patrol Plan

In **View-» Patrol Plan**, public and private patrol plans are supported. Multiple cameras can be allocated to a view layout to create a patrol plan, and a single patrol plan can be patrolled individually.

1. Click **+** button
2. Customize the name of the plan
3. Patrol interval, unit: second
4. Check the channels that need to be allocated
5. Click **>** button
6. Select the view layout grid or a custom view layout
7. Click **OK**
8. Click on the newly created patrol plan



The buttons are arranged from left to right, with a single cycle of the patrol plan. Previous video, play, pause, next video, close patrol plan, switch view layout, and custom view layout.



### Caution

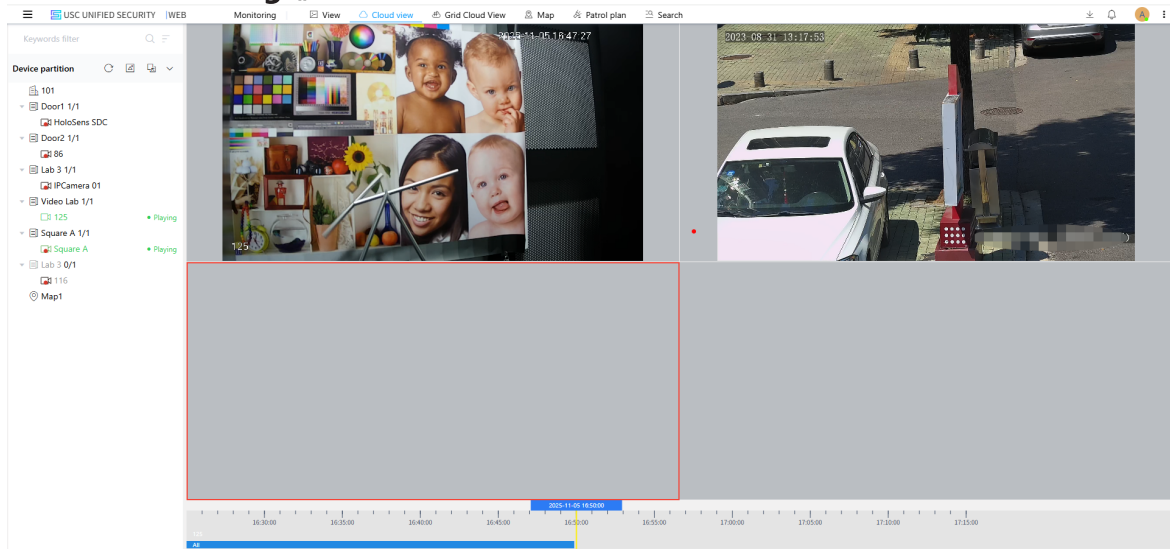
*Public patrol plan: all users can see it.*

*Private patrol plan: Only users who create private patrol plans can see it, and non-creating users cannot see it.*

## 7.11 Cloud view

### Operation Steps

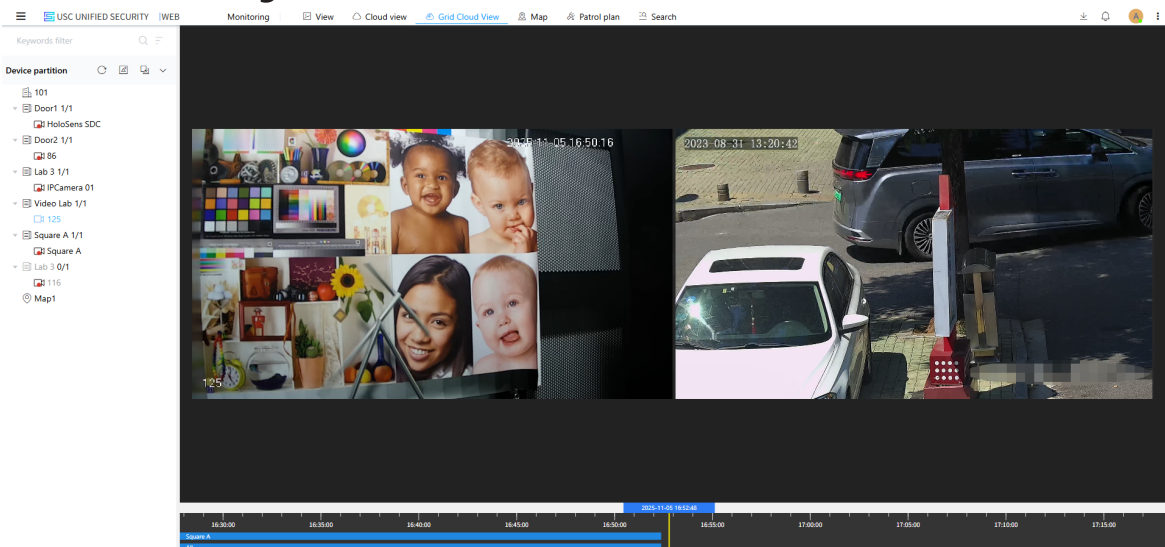
Go to Monitoring-》Cloud View



## 7.12 Grid Cloud View

### Operation Steps

#### Go to Monitoring-» Grid Cloud View



## 8.Cascade Configuration

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## 8 Cascade Configuration

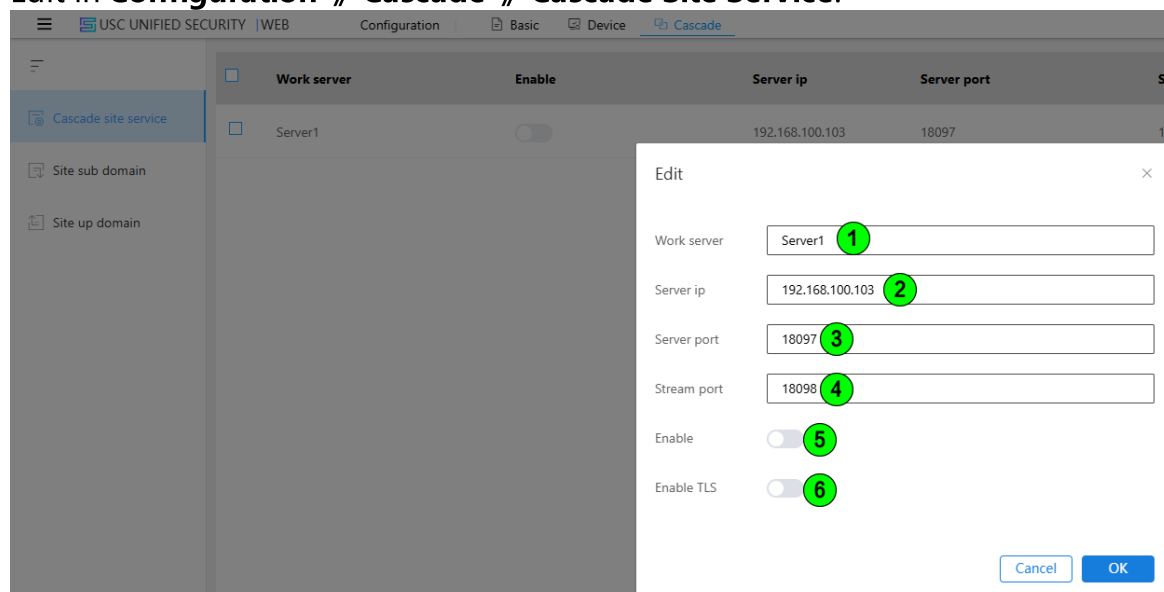
### 8.1 Cascade Site Service

#### Introduction To Cascade Site Service

The site service configuration is in a downstream mode, mainly providing services to the USC security platform in other projects. It is used for docking between USC security platforms.

#### Operation Steps

Edit in **Configuration-» Cascade-» Cascade Site Service**.



1. Click **Edit**
2. Work server: Working node
3. Server ip: Service local address
4. Server port: Keep the default or customize it
5. Stream port: Keep the default or customize it
6. Enable: Turn on
7. Enable TLS: It is turned off by default, and can be turned on if necessary

| Number | Name        | Function                                                                                                                                                                      |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Work server | Work nodes, each of which can start the service                                                                                                                               |
| 2      | Server ip   | The IP address of the higher-level service needs to be modified according to the actual situation. If it is a cloud service, it needs to be modified to the mapped IP address |
| 3      | Server port | Parent service port                                                                                                                                                           |

|   |             |                                  |
|---|-------------|----------------------------------|
| 4 | Stream port | Superior service stream TCP port |
| 5 | Enable      | Is it enabled                    |
| 6 | Enable TLS  | Whether to enable TLS            |

## 8.2 Site Sub Domain

### Introduction To Site Sub Domain

When interfacing with the subordinate USC security platform, it is necessary to add the subordinate site here and fill in the user name, password, IP address, and port of the subordinate USC security platform. Other parameters are customized.

### Operation Steps

Add and delete in the **Configuration-» Cascade-» Site Sub Domain**.

1. Click **Add** button
2. Customize device partitions
3. Custom name
4. User name of the subordinate platform
5. Password of subordinate platform
6. IP address of the subordinate platform
7. Customize or use the default
8. Other parameters remain default

| Number | Name | Function |
|--------|------|----------|
|--------|------|----------|

|    |                  |                                                                                                         |
|----|------------------|---------------------------------------------------------------------------------------------------------|
| 1  | Device partition | Mount partition                                                                                         |
| 2  | Name             | Subordinate user name, multiple subordinate user names cannot be the same                               |
| 3  | User name        | Subordinate user name, multiple subordinate user names cannot be the same                               |
| 4  | Password         | Lower level password                                                                                    |
| 5  | IP               | IP address registered by the subordinate                                                                |
| 6  | Port             | Port registered by the subordinate                                                                      |
| 7  | Check ip port    | Whether to verify the IP address and port registered by the subordinate. By default, it is not verified |
| 8  | Enable audio     | Whether to turn on audio                                                                                |
| 9  | Description      | Description                                                                                             |
| 10 | Enable           | Enable or disable the device. If it is disabled, the device cannot be registered.                       |



#### **Caution**

*Import button: Import the exported data. If the imported data has any overlap with the added data, the addition will fail.*

*Export button: Export the added subordinate site data.*

## **8.3 Site Up Domain**

### **Introduction To Site UP Domain**

When connecting with the superior USC security platform, it is necessary to add the superior site here, and fill in the user name, password, IP address, and port of the superior USC security platform. Other parameters are customized.

### **Operation Steps**

Add and delete in **Configuration-» Cascade-» Site Up Domain**.



USC UNIFIED SECURITY | WEB Configuration | Basic | Device | **Cascade**

Site up domain > Add

**Add**

|             |                                 |                      |                          |
|-------------|---------------------------------|----------------------|--------------------------|
| Auth type   | H5_CAS_AUTH_DIGEST_MD5 <b>1</b> | Site service address | 192.168.100.86 <b>7</b>  |
| Signal type | H5_CAS_SIGNAL_TCP <b>2</b>      | Site service port    | 18097 <b>8</b>           |
| Work server | Server1 <b>3</b>                | Site ID              | <b>9</b>                 |
| Name        | siteup001 <b>4</b>              | Local port           | 18099 <b>10</b>          |
| User name   | siteuser <b>5</b>               | Description          | site up domain <b>11</b> |
| Password    | ..... <b>6</b>                  | Enable               | true <b>12</b>           |

**Cancel** **OK**

1. Click **Add** button
2. Auth type: Keep default
3. Signal type: Keep the default or select as needed
4. Work server: Keep default
5. Name: Customize
6. User name: User name of the higher-level platform
7. Password: Password of the higher-level platform
8. Site service address: IP address of the superior platform
9. Site service port: Superior platform port
10. Description: Customize
11. Enable: : Keep default

| Number | Name                 | Function                                               |
|--------|----------------------|--------------------------------------------------------|
| 1      | Auth type            | Authentication type: default to H5_CAS_AUTH_DIGEST_MD5 |
| 2      | Signal type          | H5_CAS_SIGNAL_TCP or H5_CAS_SIGNAL_TLS                 |
| 3      | Work server          | Work Node                                              |
| 4      | Name                 | Subordinate Name                                       |
| 5      | User name            | Subordinate User Name                                  |
| 6      | Password             | Lower level password                                   |
| 7      | Site service address | Site service address                                   |
| 8      | Site service port    | Site service port                                      |

---

|    |             |                   |
|----|-------------|-------------------|
| 9  | Site ID     | Site ID           |
| 10 | Local port  | Local port        |
| 11 | Description | Description       |
| 12 | Enable      | Enable or disable |

 **Caution**

*Import button: Import the exported data. If the imported data has any overlap with the data already added, the addition will fail.*

*Export button: Export the added parent site data.*

## 9. Analytics

---

## 9 Analytics

### Introduction To Analysis

The system is based on deep learning technology, supports Intel CPU and NVIDIA GPU inference, supports real-time analysis of perimeter and illegal behavior, and stores metadata in a streaming video database that can be searched based on different conditions, providing more powerful security prevention strategies and post-event investigation methods. The platform detects abnormal behavior and suspicious activities based on user-defined rules, providing real-time alert reporting without the need for continuous manual monitoring. Realize 7×24 hours of uninterrupted reasoning, greatly reduce the workload of manual processing of massive video data, and proactively identify potential safety hazards and prevent suspicious risks.

## 9.1 Installation

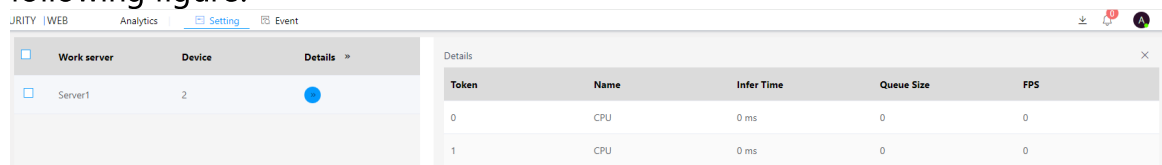
### Introduction To The Installation Of Video Analysis Service

The system installation package comes with inference model files and supporting libraries based on Intel CPUs by default. Deep learning inference based on Intel CPUs only supports Windows.

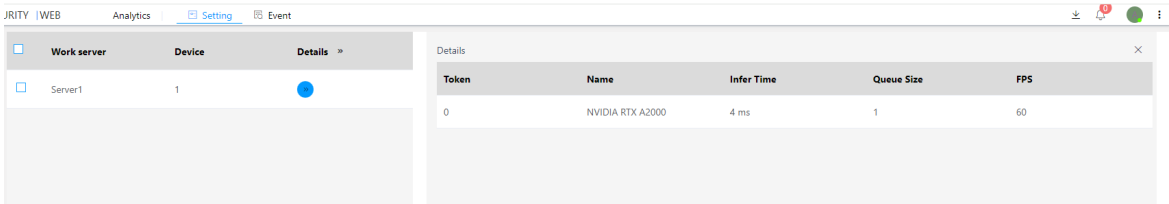
**Enter Analysis-» Settings-» Inference Service Configuration** to set the inference engine and model accuracy. USC\_ANALYTICS\_CPU is inference based on Intel CPU, and USC\_ANALYTICS\_CUDA is inference based on NVIDIA CUDA. After modifying the engine or model accuracy, you need to restart the system.

The models tested by NVIDIA GPU are NVIDIA RTX 4000 SFF/NVIDIA RTX A2000 6G/NVIDIA RTX 3060, which support multiple GPUs of the same model in a single server.

After the analysis configuration is complete, **enter Analysis-» Settings-» Inference Service Status** to view the real-time status of the inference service, including inference time/inference queue length/frame rate. CPU-based inference time can be relatively long, and if the inference queue is large, it indicates that the inference resources have been exhausted. Refer to the following figure:



| Token | Name | Infer Time | Queue Size | FPS |
|-------|------|------------|------------|-----|
| 0     | CPU  | 0 ms       | 0          | 0   |
| 1     | CPU  | 0 ms       | 0          | 0   |



9.1.1 Windows CUDA Inference

Windows CUDA Inference

The system requires a CUDA-related runtime environment, installation of the CUDA driver and TensorRT support library, and acquisition of model files.

Install the CUDA Driver For Windows

The CUDA driver comes with its own GPU driver, so there is no need to install the GPU driver separately before installing the CUDA driver. The currently used version of CUDA is CUDA\_11.8.0\_522.06\_windows.

You can access the following link to download

<https://developer.nvidia.com/cuda-downloads>

You can also directly click the following link to download:

[https://developer.download.nvidia.com/compute/cuda/11.8.0/local\\_installers/cuda\\_11.8.0\\_522.06\\_windows.exe](https://developer.download.nvidia.com/compute/cuda/11.8.0/local_installers/cuda_11.8.0_522.06_windows.exe)

After downloading, simply install it using the default configuration.

Installation Of Windows TensorRT Support Library

Contact technical support to obtain the tensorrt.zip package, and extract the package to C:\gpu\nvidia\tensorrt. The final directory structure is as follows:

|                                        |                  |
|----------------------------------------|------------------|
| Windows (C:) > gpu > nvidia > tensorrt |                  |
| 名称                                     | 修改日期             |
| bin                                    | 2024/3/21 10:05  |
| data                                   | 2023/10/12 11:01 |
| doc                                    | 2023/10/12 11:01 |
| graphsurgeon                           | 2023/10/12 11:01 |
| include                                | 2024/3/21 9:55   |
| lib                                    | 2024/3/21 10:05  |
| onnx_graphsurgeon                      | 2023/10/12 11:01 |
| python                                 | 2023/10/12 11:01 |
| samples                                | 2023/10/12 11:01 |
| uff                                    | 2023/10/12 11:01 |
| LICENSE                                | 2023/4/11 2:24   |

Model File Installation

Contact technical support to obtain the default file package egplus.zip, and place the files in egplus\egpluscudamodel into the modules\ai\egplus\egpluscudamodel directory. The final directory structure is as follows:

Windows (C:) > xdev > tmp > usc-r1.3.0903.24-win64-release > modules > ai > egplus > egpluscudamodel

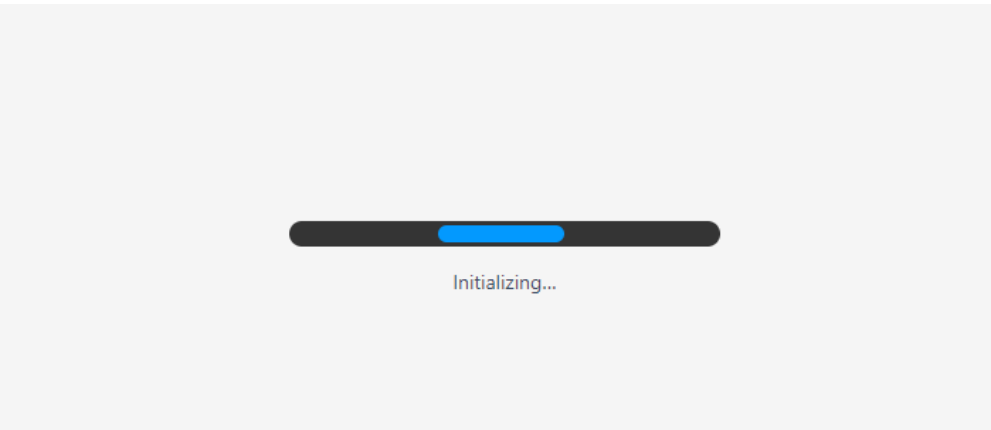
| 名称                   | 修改日期            |
|----------------------|-----------------|
| egpluscudamodel.conf | 2024/8/28 13:27 |
| objdet-middle.wts    | 2024/9/3 8:55   |
| objdet-normal.bin    | 2024/9/2 22:05  |
| objdet-normal.wts    | 2024/9/2 22:05  |
| objdet-normal.xml    | 2024/9/2 22:05  |
| ppedet-middle.wts    | 2024/9/3 8:56   |
| ppedet-normal.bin    | 2024/8/29 7:32  |
| ppedet-normal.wts    | 2024/8/29 7:31  |
| ppedet-normal.xml    | 2024/8/29 7:32  |

After the installation is complete, restart the USC service and navigate to **Analysis-» Settings-» Inference Service Configuration**. You should be able to view the CUDA driver version and the CUDA runtime version. Please refer to the figure below for reference:

IRITY | WEB      Analytics      **Setting**      Event

| Work server | Engine             | Model accuracy       | CUDA driver version | CUDA runtime version | CUDA device |
|-------------|--------------------|----------------------|---------------------|----------------------|-------------|
| Server1     | USC_ANALYTICS_CUDA | USC_ANA_MODEL_MIDDLE | 12040               | 11080                | 1           |

The system will generate an optimized model based on the GPU model during the first startup, which takes about 5 minutes. There will be a prompt in the **Analyze-» Settings-» Inference Service Status**, as shown in the following figure:



## 9.1.2 Linux CUDA Inference

### Linux CUDA Inference

The system requires a CUDA-related runtime environment, the installation of the CUDA driver and TensorRT support library, and the acquisition of model files. The Linux verification version is Ubuntu 20.04.6 LTS x86\_64.

### Ubuntu Turn Off Kernel Auto Update

The installed driver is related to the operating system kernel. If the operating system kernel is updated, the driver will become invalid. Therefore, it is necessary to disable automatic kernel updates. Take Ubuntu 20.4 as an example.

```
sudo systemctl disable --now unattended-upgrades
sudo systemctl status unattended-upgrades
```

```
sudo vi /etc/apt/apt.conf.d/20auto-upgrades
```

```
APT::Periodic::Update-Package-Lists "0";
APT::Periodic::Unattended-Upgrade "0";
~
~
~
~
~
```

```
cat /etc/apt/apt.conf.d/20auto-upgrades
APT::Periodic::Update-Package-Lists "0";
APT::Periodic::Unattended-Upgrade "0";
```

### Install CUDA Driver For Linux

The CUDA driver comes with its own GPU driver, so there is no need to install the GPU driver separately before installing the CUDA driver. The currently used version of CUDA is cuda\_11.8.0\_520.61.05\_linux.run.

You can enter the following link to download

<https://developer.nvidia.com/cuda-downloads>

You can also directly click the link below to download:

[https://developer.download.nvidia.com/compute/cuda/11.8.0/local\\_installers/cuda\\_11.8.0\\_520.61.05\\_linux.run](https://developer.download.nvidia.com/compute/cuda/11.8.0/local_installers/cuda_11.8.0_520.61.05_linux.run)

After downloading, refer to the following commands to install it. Install the GPU driver during installation.

```
sudo ./cuda_11.8.0_520.61.05_linux.run
```

If the installation fails, you can replace tmpdir and install again.

```
sudo ./cuda_11.8.0_520.61.05_linux.run --tmpdir=/home/user/tmp
```

### Linux Tensorrt Support Library Installation

Contact technical support to obtain the tensorrt.tar.gz package, and extract the package to /opt/tensorrt. The final directory structure is as follows:

```
root@user-YANYU:/opt/tensorrt# tree -L 1 /opt/tensorrt
/opt/tensorrt
├── bin -> targets/x86_64-linux-gnu/bin
├── data
├── doc
├── graphsurgeon
├── include
├── lib -> targets/x86_64-linux-gnu/lib
├── LICENSE
├── onnx_graphsurgeon
├── python
├── samples
├── targets
└── uff
```

11 directories, 1 file

## Installation Of Model Files

Contact technical support to obtain the default file package egplus.zip, and place the files in egplus/egpluscudamodel into the modules/ai/egplus/egpluscudamodel directory. The final directory structure is as follows:

```
root@user-YANYU:/opt/usc/modules/ai/egplus/egpluscudamodel# tree /opt/usc/modules/ai/egplus/egpluscudamodel
/opt/usc/modules/ai/egplus/egpluscudamodel
├── egpluscudamodel.conf
├── objdet-middle.wts
├── objdet-normal.bin
├── objdet-normal.wts
├── objdet-normal.xml
├── ppedet-middle.wts
├── ppedet-normal.bin
├── ppedet-normal.wts
└── ppedet-normal.xml
```

0 directories, 9 files

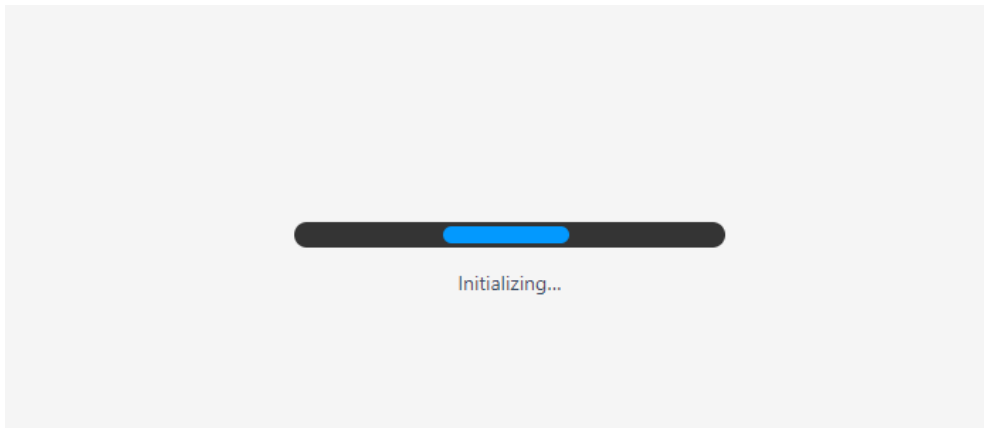
After installation, restart the USC service, **enter Analysis-» Settings-» Inference Service Configuration**, and you can see the CUDA driver version and CUDA runtime version. Refer to the following figure:

IRITY | WEB      Analytics | Setting      Event

| <input type="checkbox"/> | Work server | Engine             | Model accuracy       | CUDA driver version | CUDA runtime version | CUDA device |
|--------------------------|-------------|--------------------|----------------------|---------------------|----------------------|-------------|
| <input type="checkbox"/> | Server1     | USC_ANALYTICS_CUDA | USC_ANA_MODEL_MIDDLE | 12040               | 11080                | 1           |

The system will generate optimized models based on the GPU model when it is first started. After about 5 minutes, there will be a prompt in the **Analyze-» Settings-» Inference Service Status**. Refer to the following figure:





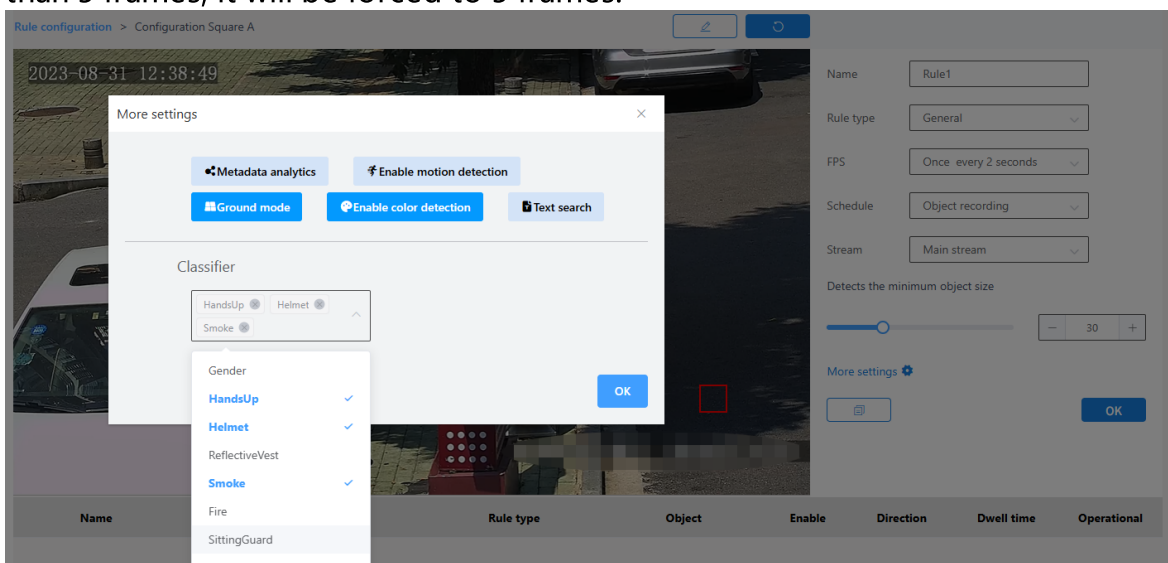
## 9.2 Setting

### 9.2.1 Rule Configuration

#### 9.2.1.1 General

#### Introduction To Basic Rules

The basic rule is to set the analysis parameters of the channel, and all other analysis rules for that channel are based on these parameters. The polygon set by the basic rule defines the scope of the analysis, and only objects within that polygon will be calculated. If the inference engine is set to USC\_ANALYTICS\_CPU (i.e., CPU mode), the maximum frame rate is 5 frames. If the setting is greater than 5 frames, it will be forced to 5 frames.



Rule configuration:

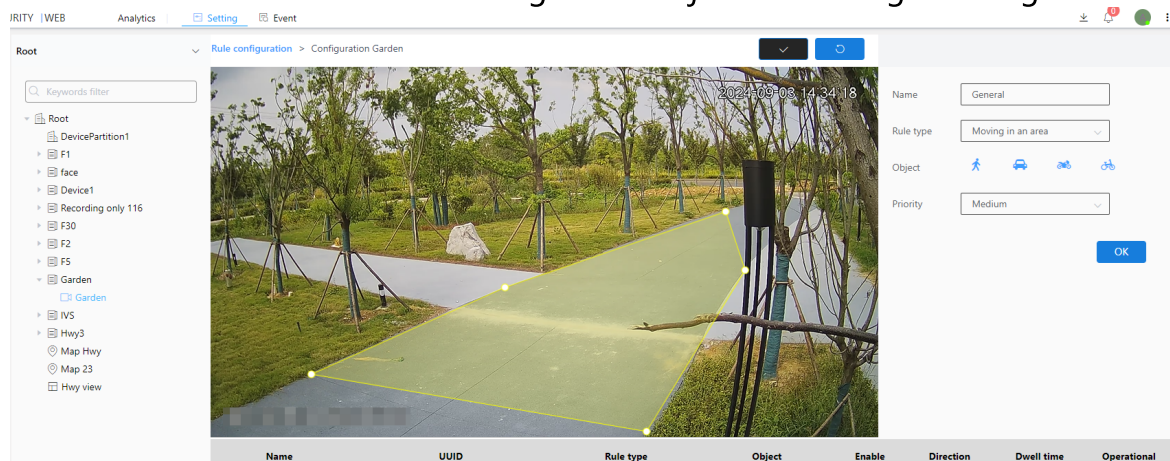
1. Select the device under the root node, and click on the configuration under the edit field on the right side of the interface
2. Custom name
3. Select the check type as **Basic Configuration**

4. Customize the frame rate or use the default frame rate
5. Select a plan
6. Open metadata analysis
7. Select the code stream
8. Adjust the minimum object size for detection
9. Configure more settings
10. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
11. Next to the **Brush** button is the **Restore** button, which restores the frameless state
12. Finally click the **OK** button

#### 9.2.1.2 Moving In An Area

### Regional Invasion

Area intrusion is a rule for detecting active objects within a given range.

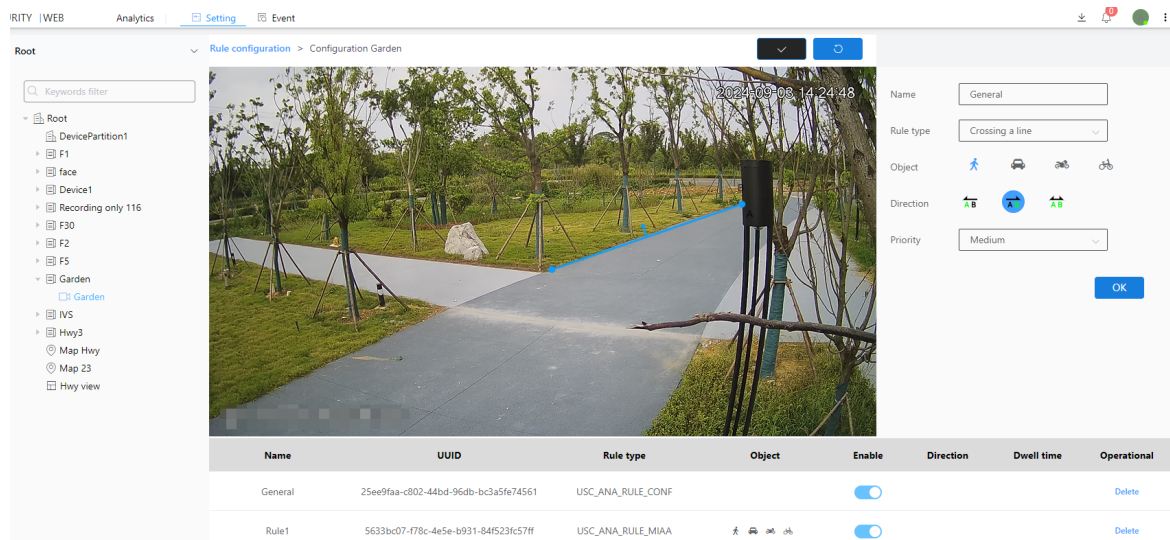


1. Select the inspection type as area intrusion
2. Select the intrusion object (person, car, motorcycle, bicycle)
3. Select level
4. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
5. Next to the **Brush** button is the **Restore** button, which restores the frameless state
6. Finally click the **OK** button

#### 9.2.1.3 Crossing A Line

### Mixing Line Inspection

Area intrusion is the detection of object movement in a given direction, and the direction for triggering an alarm can be configured.

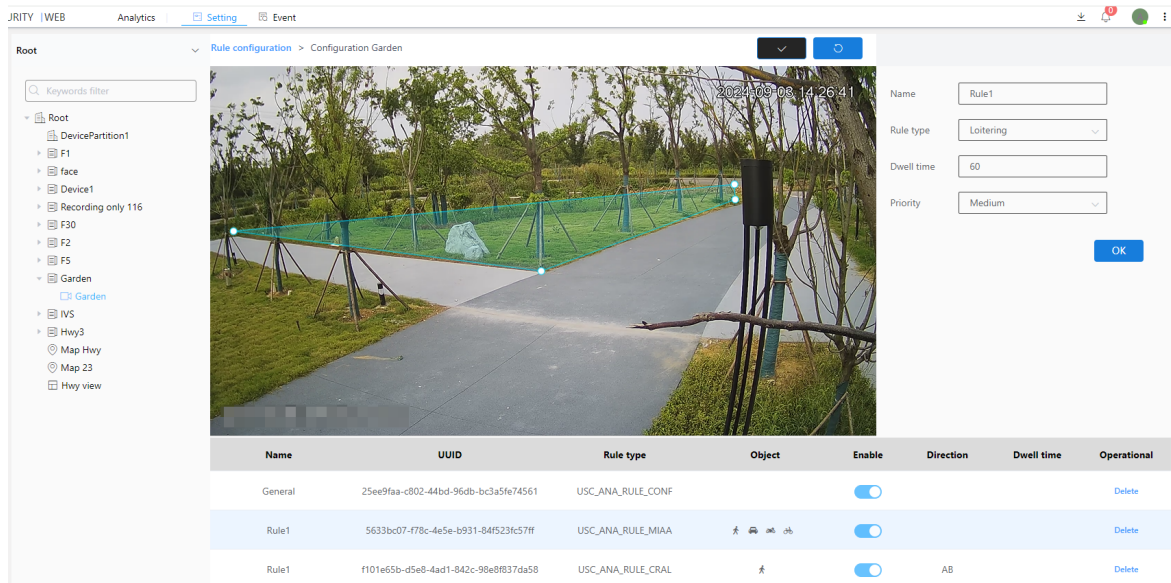


1. Select the inspection type as Mixing **Line Inspection**
2. Select the object for mixing line detection
3. Select the detection direction  
(The first direction A is green, indicating that A is out and B is in)  
(The second direction B is green, indicating that B is out and A is in)  
(The third direction AB is green, indicating that both AB are in and out.)
4. Select level
5. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
6. Next to the **Brush** button is the **Restore** button, which restores the frameless state
7. Finally click the **OK** button

#### 9.2.1.4 Loitering

##### Personnel Stay

Person staying is an algorithm that detects people staying in a given area for a certain period of time.



1. Select the inspection type as **Personnel Stay**
2. Customize or use the default dwell time, in seconds
3. Select level
4. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
5. Next to the **Brush** button is the **Restore** button, which restores the frameless state
6. Finally click the **OK** button

#### 9.2.1.5 Stopped Vehicle After Dwell Time Of (Seconds)

##### Stopped Vehicle

Illegal parking is an algorithm that detects cars/motorcycles/bicycles staying in a given area.

The screenshot shows the 'Rule configuration' window in the LinkingVision Analytics interface. The window is titled 'Rule configuration > Configuration Garden'. It features a video feed on the left with a blue brush-drawn frame. To the right of the video feed is a settings panel with the following fields:

- Name: Rule1
- Rule type: Stopped vehicle
- Object: (Icons for pedestrian, car, motorcycle, bicycle)
- Dwell time: 60
- Priority: Medium

Below the settings panel is an 'OK' button. At the bottom of the window is a table with the following columns: Name, UUID, Rule type, Object, Enable, Direction, Dwell time, and Operational.

| Name    | UUID                                 | Rule type         | Object | Enable                              | Direction | Dwell time | Operational            |
|---------|--------------------------------------|-------------------|--------|-------------------------------------|-----------|------------|------------------------|
| General | 25ee9faa-c802-44bd-96db-bc3a5fe74561 | USC_ANA_RULE_CONF |        | <input checked="" type="checkbox"/> |           |            | <a href="#">Delete</a> |
| Rule1   | 5633bc07-f78c-4e5e-b931-84523fc57f   | USC_ANA_RULE_MIAA |        | <input checked="" type="checkbox"/> |           |            | <a href="#">Delete</a> |
| Rule1   | f101e65b-d5e8-4ad1-842c-98e8837da58  | USC_ANA_RULE_CRAL |        | <input checked="" type="checkbox"/> | AB        |            | <a href="#">Delete</a> |

1. Select the type of inspection as **illegal parking**
2. Select the detection object of illegal parking
3. Customize or use the default dwell time, unit: seconds
4. Select level
5. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
6. Next to the **Brush** button is the **Restore** button, which restores the frameless state
7. Finally click the **OK** button

#### 9.2.1.6 Vehicle Counting

##### Vehicle Counting

Vehicle counting is the statistics of the total number of vehicles passing through a given direction.



IRITY | WEB Analytics | **Setting** | Event

Root configuration > Configuration Garden

Keywords filter

- Root
  - DevicePartition1
    - F1
      - face
      - Device1
      - Recording only 116
      - F30
      - F2
      - F5
    - Garden
      - Garden**
    - IVS
    - Hwy3
      - Map Hwy
      - Map 23
      - Hwy view

2024-09-08 14:30:55

Name: Rule1

Rule type: Vehicle counting

Object:

Priority: Medium

OK

| Name    | UUID                                 | Rule type         | Object | Enable                              | Direction | Dwell time | Operational            |
|---------|--------------------------------------|-------------------|--------|-------------------------------------|-----------|------------|------------------------|
| General | 25ee9faa-c802-44bd-96db-bc3a5fe74561 | USC_ANA_RULE_CONF |        | <input checked="" type="checkbox"/> |           |            | <a href="#">Delete</a> |
| Rule1   | 5633bc07-f78c-4e5e-b931-84f523fc57ff | USC_ANA_RULE_MIAA |        | <input checked="" type="checkbox"/> |           |            | <a href="#">Delete</a> |
| Rule1   | f101e65b-d5e8-4ad1-842c-96e8f837da58 | USC_ANA_RULE_CRAL |        | <input checked="" type="checkbox"/> | AB        |            | <a href="#">Delete</a> |

1. Select the vehicle counting as the inspection type
2. Select the detection object for vehicle counting
3. Select level
4. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
5. Next to the **Brush** button is the **Restore** button, which restores the frameless state
6. Finally click the **OK** button

#### 9.2.1.7 Person Counting

##### Personnel Count

Person counting is the statistics of the total number of people who have passed through a certain direction.

The screenshot shows the 'Rule configuration' interface for 'Person counting'. The left sidebar contains a tree view with the following structure:

- Root
  - DevicePartition1
    - F1
      - face
        - Device1
          - Recording only 116
            - F30
              - F2
                - F5
                  - Garden
                    - Garden (selected)
                      - IVS
                        - Hwy3
                          - Map Hwy
                            - Map 23
                              - Hwy view

The main video feed shows a garden path with a blue brush-drawn frame. The right-hand configuration panel shows the following settings:

    - Name: Rule1
    - Rule type: Person counting
    - Priority: Medium
    - OK button

Below the video feed is a table listing the configured rules:

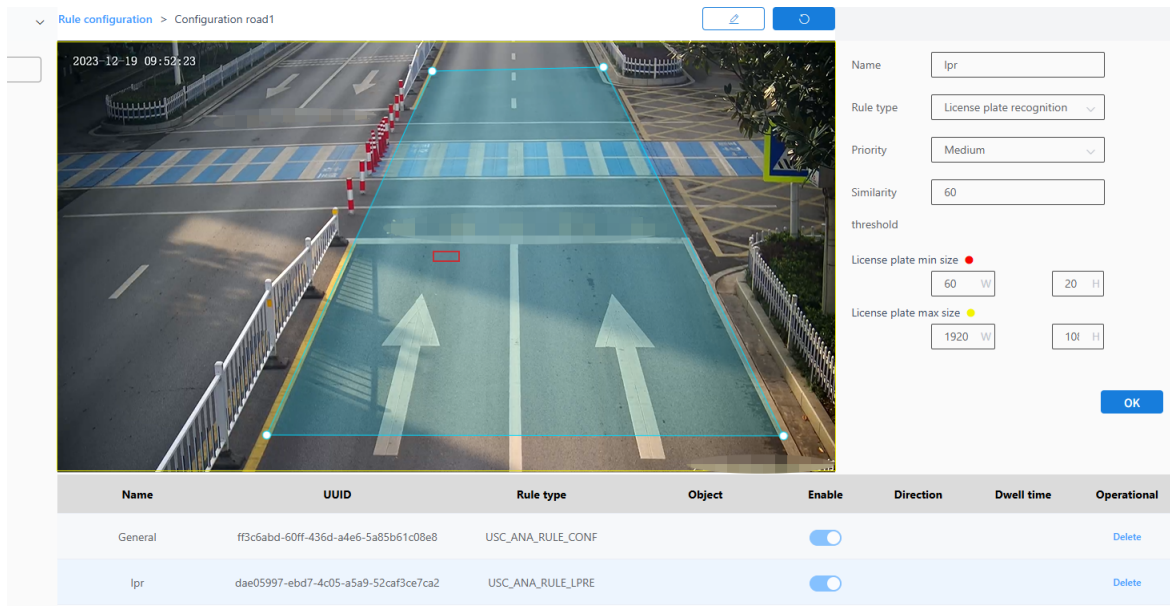
| Name    | UUID                                 | Rule type         | Object  | Enable                              | Direction | Dwell time | Operational |
|---------|--------------------------------------|-------------------|---------|-------------------------------------|-----------|------------|-------------|
| General | 25ee9faa-c802-44bd-96db-bc3a5fe74561 | USC_ANA_RULE_CONF |         | <input checked="" type="checkbox"/> |           |            | Delete      |
| Rule1   | 5633bc07-478c-4e5e-b931-84f523fc57ff | USC_ANA_RULE_MIAA | 人 车 物 物 | <input checked="" type="checkbox"/> |           |            | Delete      |
| Rule1   | f101e65b-d5e8-4ad1-842c-98e8f837da58 | USC_ANA_RULE_CRAL | 人       | <input checked="" type="checkbox"/> | AB        |            | Delete      |

1. Select the inspection type as **Person Counting**
2. Select level
3. Refer to steps 9, 10, and 11 of the **Basic Configuration**
4. Click the **Brush** button to draw a frame in the image. After drawing the frame, you need to click the brush button to confirm that the frame is drawn
5. Next to the **Brush** button is the **Restore** button, which restores the image to its original state without a frame
6. Finally click the **OK** button

#### 9.2.1.8 License plate recognition

##### License plate recognition

License plate recognition is the process of detecting the license plate rules of vehicles within a given range.



1. Select **License Plate Recognition** as the check type.
2. Choose the level.
3. Enter the similarity threshold.
4. Enter the minimum and maximum sizes of the license plate.
5. Click the Brush button and draw a frame on the image. After drawing the frame, you need to click the Brush button again to confirm that the frame is completed.
6. Next to the Brush button is the Restore button, which restores the state to before any frame was drawn.
7. Finally, click the **OK** button.



## 9.2.1.9 Face recognition

## Face recognition

Rule configuration > Configuration Cam2-002

2023-08-31 16:15:46



Name: Face Recognition

Rule type: Face recognition

Priority: Medium

Face library: face

Similarity threshold: 60

Min size: 40

OK

| Name             | UUID                                 | Rule type         | Object | Enable                              | Direction | Dwell time | Operational |
|------------------|--------------------------------------|-------------------|--------|-------------------------------------|-----------|------------|-------------|
| General          | 02bf5201-06c8-431c-9caa-14fd35c4a385 | USC_ANA_RULE_CONF |        | <input checked="" type="checkbox"/> |           |            | Delete      |
| Face Recognition | e586298c-4cd5-4004-b5be-f685f661d209 | USC_ANA_RULE_FARE | *      | <input checked="" type="checkbox"/> |           |            | Delete      |

1. Select **Face Recognition** as the check type.
2. Choose the level.
3. Select the face database.
4. Enter the similarity threshold.
5. Enter the minimum size.
6. Click the Brush button and draw a frame on the image. After drawing the frame, you need to click the Brush button again to confirm the frame is completed.
7. Next to the Brush button is the Restore button, which reverts to the state where no frame was drawn.
8. Finally, click the **OK** button.

## 9.2.2 Video quality inspection

## 9.2.2.1 Scheme configuration

## Operation Steps

Go to **Analytics-» Setting-» Video quality inspection-» Scheme configuration-» Add**

## Add scenarios

Scheme name  1

Scenario description  2

Default scenario ☒ 3

Inspection items ☒ 4

Check all

Video shaking 0  100

The picture freezes 0  100

Image color cast 0  100

Abnormal brightness 0  100

Blurry images 0  100

Video occlusion 0  100

Striped interference 0  100

Contrast is abnormal 0  100

Signal loss 0  100

Noise interference 0  100

Scene changes 0  100

OK Cancel

legend ● Alarm ● Early warning ● Normal

| Number | Name                 | Description                       |
|--------|----------------------|-----------------------------------|
| 1      | Scheme name          | Scheme name                       |
| 2      | Scenario description | Scenario description              |
| 3      | Default scenario     | Whether it is the default scheme  |
| 4      | Inspection items     | Items to be checked in the scheme |

## 9.2.2.2 Plan configuration

## Operation Steps

Go to **Analytics-» Setting-» Video quality inspection-» Plan configuration-» Add**

Video quality inspection &gt; Add a plan

## Add a plan

Plan name  1

Dwell time  4 秒

Diagnostic protocol  2

Plan type  5

Start time  3

Channel 6

☐ Device196 (54)  
☐ Device196 (55)  
☐ Device196 (56)  
☐ Device196 (57)  
☐ Device196 (58)  
☐ Device196 (60)  
☐ Device196 (59)  
☐ Device196 (63)  
☐ Device196 (62)  
☐ Device196 (61)  
☐ Device196 (64)  
☐ Device196 (46)  
☒ 178 NVR  
☐ Cam2-002  
☐ road1

Enable ☒ 7

Plan description  8

| Number | Name                | Description               |
|--------|---------------------|---------------------------|
| 1      | Plan name           | Plan name                 |
| 2      | Diagnostic protocol | Scheme configuration list |
| 3      | Start time          | Scheme start time point   |
| 4      | Dwell time          | Detection duration        |
| 5      | Plan type           | Daily / Weekly / Once     |
| 6      | Channel             | Detection channel(s)      |
| 7      | Enable              | Whether enabled           |
| 8      | Plan description    | Plan description          |

## 9.2.2.3 Diagnostic results

**Operation Steps**Go to **Analytics-» Setting-» Video quality inspection-» Diagnostic results**

For the video quality detection diagnosis results, the time range is a mandatory parameter, and other parameters are optional.

Diagnostic plan

Unlimited

Diagnostic time frame

2025-11-10 15:40:52

~

2025-11-10 16:40:52

Date

Last hour

Channel name

Search

Reset

legend

Alarm

Early warning

Normal

Not detected

Detection failed

| Serial number | Diagnostic plan | Channel name | Diagnosis time            | Online status | Encoding format | Video shaking | The picture freezes | Image color cast | Abnormal brightness | Blurry images | Video occlu | Picture |
|---------------|-----------------|--------------|---------------------------|---------------|-----------------|---------------|---------------------|------------------|---------------------|---------------|-------------|---------|
| 1             | Plan 01         | 86           | 2025-11-10T16:40:46+08:00 | Online        | H265            |               |                     |                  |                     |               |             |         |
| 2             | Plan 01         |              | 2025-11-10T16:40:32+08:00 | Online        | H265            |               |                     |                  |                     |               |             |         |
| 3             | Plan 01         | 125          | 2025-11-10T16:40:18+08:00 | Online        | H265            |               |                     |                  |                     |               |             |         |

9.2.3

Classifier

Operation Steps

Go to **Analytics-» Setting-» Classifier**

AddDelete

| <input type="checkbox"/> | Serial number | Name       | Text list                        | Generate alarm           | Alarm class index | Language | Object Class List |                                             |
|--------------------------|---------------|------------|----------------------------------|--------------------------|-------------------|----------|-------------------|---------------------------------------------|
| <input type="checkbox"/> | 1             | classifier | male                             | <input type="checkbox"/> |                   | en       |                   | <a href="#">Edit</a> <a href="#">Delete</a> |
| <input type="checkbox"/> | 2             | classifier | The person who raised their hand | <input type="checkbox"/> |                   | en       |                   | <a href="#">Edit</a> <a href="#">Delete</a> |
| <input type="checkbox"/> | 3             | classifier | The person who raised their hand | <input type="checkbox"/> |                   | en       |                   | <a href="#">Edit</a> <a href="#">Delete</a> |

Classifier > Add >

Name

classifier1

Text list

+ New Txtlist2

Generate alarm

☐3

Alarm class index

4

Language

English5

Object Class List

6

Cancel

Add

| Number | Name | Description     |
|--------|------|-----------------|
| 1      | Name | Classifier Name |

|   |                   |                                                                                               |
|---|-------------------|-----------------------------------------------------------------------------------------------|
| 2 | Text list         | Text List                                                                                     |
| 3 | Generate alarm    | Whether to Generate Alarm                                                                     |
| 4 | Alarm class index | Alarm Category Index                                                                          |
| 5 | Language          | Language (zh, en)                                                                             |
| 6 | Object Class List | Target Objects to Check (background, person, bicycle, car, motorcycle, bus, truck, dog, face) |

## 9.3 Event

### Event Introduction

The analysis event is the metadata after the fact display reasoning analysis. You can see the real-time rule alarm. If the object in the video triggers the alarm, the video will flash red to indicate it.

The screenshot displays the 'Analytics' interface with the 'Event' tab selected. The table below shows the event data:

| Channel name | Priority | Rule name | Target | Rule type         | Time                      | Event        |
|--------------|----------|-----------|--------|-------------------|---------------------------|--------------|
| face         | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:30+08:00 | OBJECT_ENTER |
| F5           | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:30+08:00 | OBJECT_LEAVE |
| face         | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:30+08:00 | OBJECT_ENTER |
| F5           | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:30+08:00 | OBJECT_ENTER |
| face         | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:30+08:00 | OBJECT_ENTER |
| face         | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:29+08:00 | OBJECT_ENTER |
| face         | Medium   | Rule1     | *      | Moving in an area | 2024-09-25T17:17:29+08:00 | OBJECT_ENTER |

Below the table is a video feed showing a street scene with a white van. The video frame is overlaid with a red border, indicating an active alarm. A green bounding box is visible on a person in the video, and a blue line indicates a movement path. The timestamp '2024-01-12 04:13:26' is displayed in the top left corner of the video frame.

## 9.4 Face

### 9.4.1 Person library

#### Face library

1. Click **+** to add a face database
2. Select a face database
3. Click **Add**

The screenshot shows a software interface with a 'Face library' section. A modal window titled 'Add' is open, containing the following fields:

- 1** Face photo: A dashed box for uploading a face photo.
- 2** Personnel name: A text input field.
- 3** Personnel gender: A dropdown menu with 'Male' selected.
- 4** Certificate type: A dropdown menu with 'ID card' selected.
- 5** ID number: A text input field.
- 6** Date of birth: A date picker.
- 7** Email: A text input field.

Buttons for 'Cancel' and 'OK' are at the bottom right of the modal. A note states: 'Note: The image size is recommended not to exceed 1920px\*1080px and the image size is not more than 500k'.

| Number | Name             | Function                             |
|--------|------------------|--------------------------------------|
| 1      | Face photo       | Face photo                           |
| 2      | Personnel name   | Name                                 |
| 3      | Personnel gender | Male / Female                        |
| 4      | Certificate type | ID Card / Passport / Vehicle License |
| 5      | ID number        | Document Number                      |
| 6      | Date of birth    | Date of Birth                        |
| 7      | Email            | Email                                |

9.4.2 Search

Search

Search

Search time

2025-07-29 09:27:571

2025-08-30 09:27:57

Date

Last month

Channel name

Please enter name2

Name

Please enter name3

Search

| Event face                                                                            | Target face                                                                       | Channel name | Time                      |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|---------------------------|
|  69% |  | 86           | 2025-08-28T09:12:27+08:00 |
|  62% |  | 86           | 2025-08-27T18:11:28+08:00 |
|  62% |  | 86           | 2025-08-27T13:47:23+08:00 |
|  63% |  | 86           | 2025-08-26T16:28:13+08:00 |
|  68% |  | 86           | 2025-08-25T15:59:14+08:00 |
|  70% |  | 86           | 2025-08-15T18:12:05+08:00 |

| Number | Name         | Function                        |
|--------|--------------|---------------------------------|
| 1      | Search time  | Events within the search period |
| 2      | Channel name | Channel name                    |
| 3      | Name         | Names in the face database      |

9.5 License plate

车牌介绍

Search

Search time

2025-08-29 12:31:101

2025-08-29 13:31:10

Date

Last hour

Channel name

Please enter name2

Vehicle type

3

Search

| Detected vehicles                                                                       | License plate image                                                                 | Vehicle Information                                                                 | Channel name                                                                         | Time                      |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|
|  91% |  |  |  | 2025-08-29T13:10:08+08:00 |
|  81% |  |  |  | 2025-08-29T13:31:06+08:00 |
|  92% |  |  |  | 2025-08-29T13:31:06+08:00 |
|  84% |  |  |  | 2025-08-29T13:31:06+08:00 |

| Number | Name        | Function                        |
|--------|-------------|---------------------------------|
| 1      | Search time | Events within the search period |

---

|   |              |                             |
|---|--------------|-----------------------------|
| 2 | Channel name | Channel name                |
| 3 | Vehicle type | Car, motorcycle, bus, truck |



# 10.System

---

# 10 System

## 10.1 Setting

### 10.1.1 System maintenance

#### 10.1.1.1 Operation Log

#### Operation Log

After entering the operation log interface, click the search button to search for the latest operation log.

Optional operation: select the start time, end time, input operation function, and operation user.

**Reset button:** used to reset the start time, end time, operation function, and previously entered values by the operating user.



Caution

*The input box for the operation function should be filled with the value of the module type field.*

USC UNIFIED SECURITY | WEB

SystemSettingClusterService

Maintenance

Operation log

License

System configuration

Customization

Start time2024-09-23 14:21:05

End time2024-09-24 14:21:05

Operate function

Operate user

Search

Reset

| <input type="checkbox"/> | Token | User  | Client IP    | Log level     | Time                      | Module type   | Operational                                                                  | Operate result |
|--------------------------|-------|-------|--------------|---------------|---------------------------|---------------|------------------------------------------------------------------------------|----------------|
| <input type="checkbox"/> | 1     | admin | 10.168.1.102 | informational | 2024-09-23T16:05:38+08:00 | login_manage  | login                                                                        | success        |
| <input type="checkbox"/> | 2     | admin | 10.168.1.101 | informational | 2024-09-23T16:11:48+08:00 | login_manage  | login                                                                        | success        |
| <input type="checkbox"/> | 3     | admin | 10.168.1.102 | informational | 2024-09-24T09:19:29+08:00 | login_manage  | login                                                                        | success        |
| <input type="checkbox"/> | 4     | admin | 10.168.1.102 | informational | 2024-09-23T16:05:39+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 start play                       | success        |
| <input type="checkbox"/> | 5     | admin | 10.168.1.102 | informational | 2024-09-23T16:06:02+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 end play                         | success        |
| <input type="checkbox"/> | 6     | admin | 10.168.1.102 | informational | 2024-09-23T16:08:33+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 start play                       | success        |
| <input type="checkbox"/> | 7     | admin | 10.168.1.102 | informational | 2024-09-23T16:08:34+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 end play                         | success        |
| <input type="checkbox"/> | 8     | admin | 10.168.1.102 | informational | 2024-09-23T16:08:41+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 start play                       | success        |
| <input type="checkbox"/> | 9     | admin | 10.168.1.102 | informational | 2024-09-23T16:08:46+08:00 | device_manage | device 9b8bf2f9-a880-4a65-882d-3bdc7df64ea8 end play                         | success        |
| <input type="checkbox"/> | 10    | admin | 10.168.1.102 | informational | 2024-09-23T16:08:46+08:00 | device_manage | device 6c5b9ae8-5ce9-4a67-ba85-6d4ca37d7aba-012913691671242 00101 start play | success        |

Total 79 item

<

1

2

3

4

5

6

...

8

>

10item/Per

Go to1Page

Jump

#### Authorization Management

View test authorization and purchased formal authorization information

Host number: An ID generated after each machine is deployed on the USC platform, used to obtain testing and official authorization

Copyright end time: the end time of the test authorization period. The official authorization is permanent and will not expire

Number of channels: the number of cameras that can be connected

Concurrent video number: the number of camera videos that can be viewed

Cluster: If it is blue, it means that the cluster function is supported

Device SDK: If it is blue, it means that it supports accessing cameras and video recorders through SDK

Device SDK playback: If it is blue, it means that playback is supported, and the camera and video recorder are accessed in the SDK mode

GB28181: If it is blue, it means that it supports accessing cameras and video recorders using the GB28181 protocol

Transcoding: If it is blue, it means that H265 is supported for conversion to H264

Platform: If the color is blue, it indicates support for connecting to the Hikvision ISC platform, Dahua DSS, EVS platform, and Huawei IVS platform

Metadata analysis: How many entries can this function support? Metadata analysis

Regional invasion: how many regions are supported by this function, regional invasion

Mixing line detection: how many lines can be supported by this function, mixing line detection

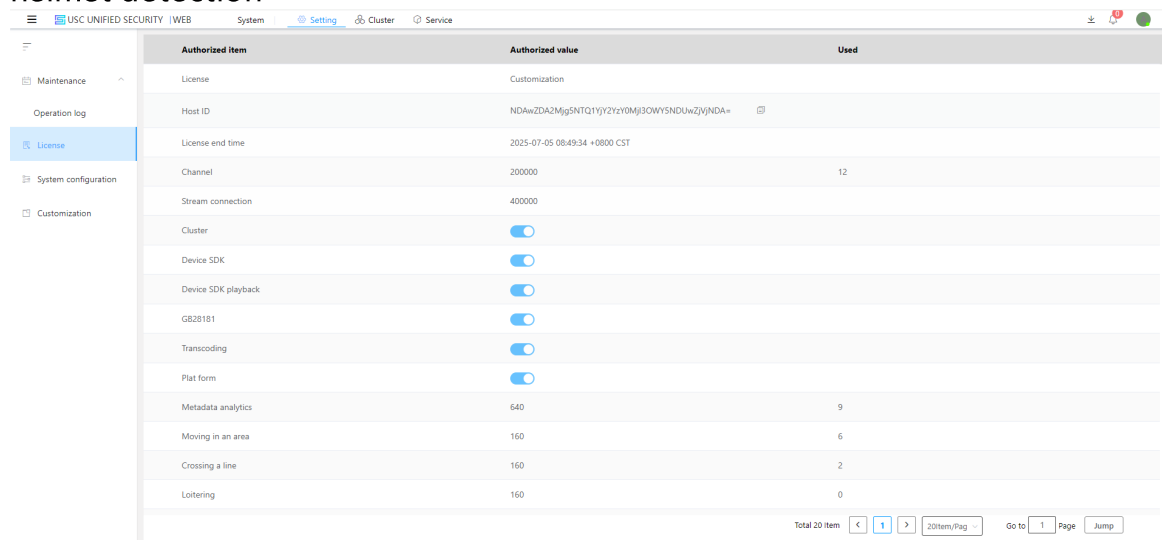
Personnel stay: This function supports how many personnel stay

Illegal parking: how many illegal parking functions are supported

Vehicle counting: how many vehicles can be counted with this function

Personnel counting: how many people can be counted with this function

Safety helmet detection: how many lines of this function are supported, safety helmet detection



| Authorized Item     | Authorized value                             | Used |
|---------------------|----------------------------------------------|------|
| License             | Customization                                |      |
| Host ID             | ND4wZDA2Mjg5NTQ1Y1Y2YzY0MjB3OWY5NDUwZjYhNDA+ |      |
| License end time    | 2025-07-05 08:49:34 +0800 CST                |      |
| Channel             | 200000                                       | 12   |
| Stream connection   | 400000                                       |      |
| Cluster             | <input checked="" type="checkbox"/>          |      |
| Device SDK          | <input checked="" type="checkbox"/>          |      |
| Device SDK playback | <input checked="" type="checkbox"/>          |      |
| GB28181             | <input checked="" type="checkbox"/>          |      |
| Transcoding         | <input checked="" type="checkbox"/>          |      |
| Platform            | <input checked="" type="checkbox"/>          |      |
| Metadata analytics  | 640                                          | 9    |
| Moving in an area   | 160                                          | 6    |
| Crossing a line     | 160                                          | 2    |
| Loitering           | 160                                          | 0    |

Total 20 Item < 1 > 20Item/Item Page Go to 1 Page Jump

### 10.1.1.2 System maintenance

#### Operation Steps

Go to **System-» Setting-» System maintenance-» System maintenance** for editing.

---

Configuration Export: Export all configuration files under the conf directory of the USC software package.

Database Export: If Event Export is checked, the event table will be exported together.

### Restart

Restart service

Restart

### Configure export

Export

### Database export

Whether to export the event



Export progress:

0%

Export

### Database import

Import

#### 10.1.1.3 System upgrades

### Operation Steps

Go to **System-» Setting-» System maintenance-» System upgrades** for editing.

## System upgrades

Current version: r2.1.1105.25

Import version

### 10.1.2 Event search

#### Operation Steps

Go to **System-» Setting-» Event Search** and select a time to search.

| Start time               | 2025-11-09 11:25:26 | End time     | 2025-11-10 11:25:26                  | Name                  |                           | Module type | Please select | Search quantity | 1000 | <button>Reset</button> | <button>Search</button> |
|--------------------------|---------------------|--------------|--------------------------------------|-----------------------|---------------------------|-------------|---------------|-----------------|------|------------------------|-------------------------|
| <input type="checkbox"/> | Serial number       | Name         | UUID                                 | Module type           | Time                      | Picture     |               |                 |      |                        |                         |
| <input type="checkbox"/> | 1                   | Lab 3        | 71f9a766-df74-4293-a721-c121eae8bb0c | H55_EVENT_DEV_OFFLINE | 2025-11-09T14:34:38+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 2                   | 125          | 0ac58b41-846c-486c-80b2-ccaa39572dbd | H55_EVENT_ONLINE      | 2025-11-09T14:33:44+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 3                   | Video Lab    | caf6522c-be24-4ac6-bfe1-7a8d55306b9a | H55_EVENT_DEV_ONLINE  | 2025-11-09T14:33:43+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 4                   | HoloSens SDC | bf9e1785-d18d-4705-91ba-d92f9e8909dd | H55_EVENT_ONLINE      | 2025-11-09T14:33:43+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 5                   | 86           | 7d7d4d02-5b0b-44b6-9d17-2a01b0de3bb7 | H55_EVENT_ONLINE      | 2025-11-09T14:33:43+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 6                   | Door2        | cd1eba52-e10a-4e2a-ac37-a65f601d2406 | H55_EVENT_DEV_ONLINE  | 2025-11-09T14:33:43+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 7                   | Door1        | ff150dee-c581-4c8c-9629-0417c468fd32 | H55_EVENT_DEV_ONLINE  | 2025-11-09T14:33:43+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 8                   | IPCamera 01  | f5a7b356-e596-41b7-a118-89c531ee6f73 | H55_EVENT_ONLINE      | 2025-11-09T14:33:42+08:00 |             |               |                 |      |                        |                         |
| <input type="checkbox"/> | 9                   | Lab 3        | 8874ec80-3d4d-4313-84f9-0548f2ac0139 | H55_EVENT_DEV_ONLINE  | 2025-11-09T14:33:42+08:00 |             |               |                 |      |                        |                         |

### 10.1.3 Alarm search

#### Operation Steps

Go to **System-» Setting-» Alarm Search** and select a time to search.

## 10.1.4 License

### Operation Steps

Go to **System-» Setting-» License** and import the authorization file.

[Upload license](#)

| Authorized item        | Authorized value                                                                                                                 | Used |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|
| License                | Customization                                                                                                                    |      |
| Host ID                | NWJkZjE1OWFjMjVmZjUyNGlwMjM0MTM5OGUwZGQ4OWM=  |      |
| License end time       | unlimited                                                                                                                        |      |
| Channel                | 2000                                                                                                                             | 6    |
| Stream connection      | 4000                                                                                                                             |      |
| Cluster                | <input checked="" type="checkbox"/>                                                                                              |      |
| Device SDK             | <input checked="" type="checkbox"/>                                                                                              |      |
| Device SDK playback    | <input checked="" type="checkbox"/>                                                                                              |      |
| GB28181                | <input checked="" type="checkbox"/>                                                                                              |      |
| Transcoding            | <input checked="" type="checkbox"/>                                                                                              |      |
| Plat form              | <input checked="" type="checkbox"/>                                                                                              |      |
| VQD                    | <input checked="" type="checkbox"/>                                                                                              |      |
| Video analysis channel | <input checked="" type="checkbox"/>                                                                                              |      |
| Metadata analytics     | 640                                                                                                                              | 0    |
| Moving in an area      | 160                                                                                                                              | 0    |

## 10.1.5 System Configuration

### Operation Steps

After entering the page, click the search button. Same parameters need to be restarted after modification before they take effect.

| USC UNIFIED SECURITY   WEB      | System                   | Setting           | Cluster          | Service           |                               |                      |  |  |  |
|---------------------------------|--------------------------|-------------------|------------------|-------------------|-------------------------------|----------------------|--|--|--|
| Module name                     | All                      | Search            | Reset            |                   |                               |                      |  |  |  |
| Module name                     | Service restart required | Name of parameter | Parameter values | Range restriction | Description                   | Operational          |  |  |  |
| <input type="checkbox"/> system | Yes                      | LogRetentionTime  | 365              | > 1               | Log retention days            | <a href="#">Edit</a> |  |  |  |
| <input type="checkbox"/> system | Yes                      | SessionTimeout    | 30               | > 1               | Session expire time, (minute) | <a href="#">Edit</a> |  |  |  |
| <input type="checkbox"/> system | Yes                      | ForceHttps        | true             | True or false     | Mandatory https               | <a href="#">Edit</a> |  |  |  |

Explanation of parameter names:

| Number | Name             | Function                             |
|--------|------------------|--------------------------------------|
| 1      | LogRetentionTime | Number of days to keep logs, in days |
| 2      | SessionTimeout   | Session validity period, in minutes  |

|    |                                  |                                                                                                                                                                                                                                                                                                           |
|----|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | ForceHttps                       | true is to force http access to https access, false is to turn off this function                                                                                                                                                                                                                          |
| 4  | EventTableTimeInDay              | The time length of the event table switching table is in days, with a default of 30, which means that a new table is switched every 30 days. This is mainly for performance optimization and to prevent too much content in a single table. It is actually adjusted based on the amount of project events |
| 5  | AnalyticsEventRetentionTime      | Analyze events retention time. The default is 120 days                                                                                                                                                                                                                                                    |
| 6  | EventRetentionTime               | The length of time for which the event is retained. The default is 120 days                                                                                                                                                                                                                               |
| 7  | EnableTimelineInertia            | Turn on playback timeline inertia. Default enabled                                                                                                                                                                                                                                                        |
| 8  | PartitionLoadDeviceOnly          | Only devices are displayed in the device partition, and other resources such as views and maps are not displayed. It is turned on by default                                                                                                                                                              |
| 9  | PlaybackShowStorageMode          | View playback displays the center storage and device configuration, which is enabled by default                                                                                                                                                                                                           |
| 10 | EnablePartitionTreeCacheSearch   | Enable view partition search Search in the client memory, enabled by default. If it is disabled, search in the server data and replace the existing partition list. If the number of devices is large, it needs to be enabled, such as more than 5000 entries                                             |
| 11 | EnableDevPartitionLazyLoading    | Enable the lazy loading mode for device partitions. It is disabled by default. When the number of devices and partitions exceeds 5000, it needs to be enabled, otherwise the client operation will be slower                                                                                              |
| 12 | EnableDevPartitionShowDeviceNode | Open the display device node in the device partition. It is recommended to open it if                                                                                                                                                                                                                     |

---

|    |  |                                                                                          |
|----|--|------------------------------------------------------------------------------------------|
|    |  | there are many NVRs connected, and close it if there are only cameras connected directly |
| 13 |  |                                                                                          |
| 14 |  |                                                                                          |

### 10.1.6 Customization

#### Customization

Replace the ICO, logo, title, and copyright on the platform with those of your own company

Product customization, custom logo, and custom login logo are all the same operation:

1. First click the download button in the figure to download the original icon of the usc platform to the local to obtain the width and height of the icon
2. Then, redesign your icon based on the acquired width and height
3. Click the folder button again to upload your own icon
4. Click Save
5. Note: There is a language and theme drop-down box next to the download button, indicating that the icon can be uploaded to different languages and themes. If you need to upload to all theme languages. Then you need to choose different theme languages and manually upload multiple times

Customize Title and Copyright: These two fields only require entering the information you need in the Reset Title and Reset Copyright input boxes, and clicking Save.



## Customization

Custom ico    [Icon download.ico](#)

Please select file



Default

Save

Custom logo    [Logo download](#)

Simplified chi



USC UNIFIED SECURITY

| WEB

Please select file



Support svg format

Default

Save

Customize login  
logo    [Logo  
download](#)

Simplified cl

UNIFIED SECURITY PLATFORM

USC

Please select file



Support svg format

Default

Save

Custom title

Simplified chi

# 10.2 Cluster

## 10.2.1 Cluster configuration

### Operation Steps

Go to **System-» Cluster-» Cluster Configuration** and make edits.

Cluster configuration > Edit

Edit

Server id26aa0aad-317c-41fa-9f21-73183f4c3cd4

Hot standby mode9☐

Server nameServer11

Server ip0.0.0.02

OSwindows

Save

Operating modeUSC\_SERVER\_MAIN3

Main ip192.168.100.1004

bHasSecondary15☐

Secondary1IP192.168.100.1016

bHasSecondary27☐

Secondary2IP192.168.100.1028

Save

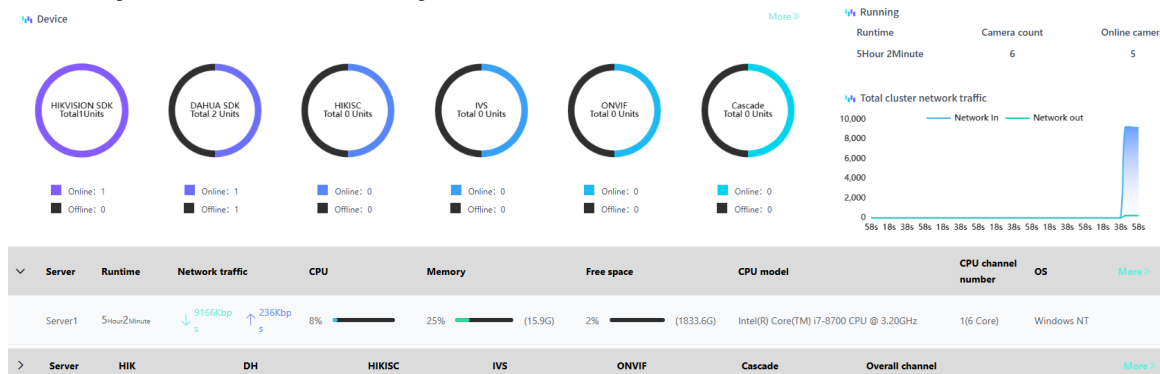
| Number | Name           | Function |
|--------|----------------|----------|
| 1      | Server name    |          |
| 2      | Server ip      |          |
| 3      | Operating mode |          |
| 4      | Main ip        |          |
| 5      | bHasSecondary1 |          |
| 6      | Secondary1IP   |          |

|   |                  |  |
|---|------------------|--|
| 7 | bHasSecondary2   |  |
| 8 | Secondary2IP     |  |
| 9 | Hot standby mode |  |

## 10.2.2 System info

### Operation Steps

Go to **System-» Cluster-» System info** to view.



## 10.3 Service

### 10.3.1 HTTP service

#### Operation Steps

Edit in **System-» Service-» HTTP Service** to modify the service HTTP and HTTPS ports. After modification, restart the platform. If it is a multi-node system, keep all node ports the same.

Edit×

HTTP port

80851

HTTPS port

84452

SSL certificate file

server.pem3

File directory

www/4

Service address

0.0.0.05

Cancel

OK

| Number | Name                 | Function |
|--------|----------------------|----------|
| 1      | HTTP port            |          |
| 2      | HTTPS port           |          |
| 3      | SSL certificate file |          |
| 4      | File directory       |          |
| 5      | File directory       |          |

### 10.3.2 MQTT service

#### MQTT Service Configuration

USC has a built-in MQTT service, and device alarms are pushed to the MQTT server by default. The MQTT service supports hot standby mode and allows specifying which node to enable it on. Multiple MQTT services cannot use the same node.

#### Operation Steps

**System-» Service-» MQTT service** MQTT Service Parameters

MQTT &gt; MQTT configuration

## MQTT configuration

Work server  1

Operating mode  2

Enable ☐ 3

Allow anonymity ☐ 4

IP  5

bindIp  6

Port  7

Cancel

OK

| Number | Name            | Function                                                                                                                                  |
|--------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Work server     | On which node is the MQTT service running                                                                                                 |
| 2      | Operating mode  | Current operating mode of the MQTT service (Primary/Standby)                                                                              |
| 3      | Enable          | Whether it is enabled                                                                                                                     |
| 4      | Allow anonymity | Whether MQTT authentication is enabled                                                                                                    |
| 5      | IP              | IP address bound to the MQTT service (default: 127.0.0.1)                                                                                 |
| 6      | bindIP          | Specify the IP of the network interface that the MQTT server listens on (default: 0.0.0.0, listening on all available network interfaces) |
| 7      | Port            | MQTT service port                                                                                                                         |

By default, MQTT comes with a built-in account (username: sysmqtt, password: 12345). It is recommended to change the default password, and all MQTT services share the same set of account credentials.

## Add user

Account

user1

Password

To improve your password security, it is recommended to use the following:

- Password length should be at least 8 characters
- The password must contain at least one uppercase letter.
- The password must contain at least one lowercase letter.
- The password must contain at least one number.
- The password must contain at least one special character. for example, @ #&, etc.
- The password cannot have two consecutive increasing or decreasing numbers. For example, 12 321 5678, etc.
- The password cannot contain the username.

Confirm password

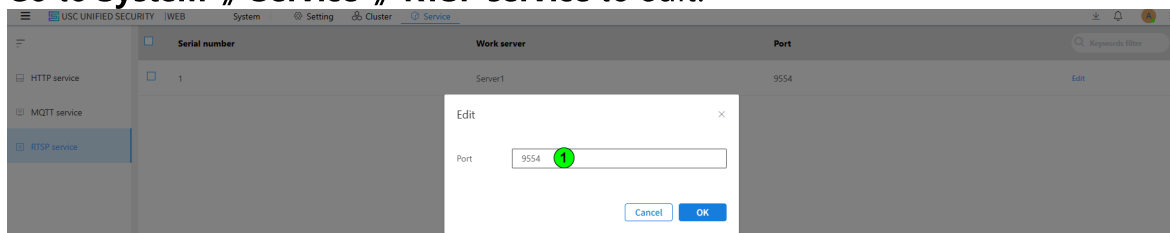
Cancel

OK

### 10.3.3 RTSP service

#### Operation Steps

Go to **System-» Service-» RTSP service** to edit.



| Number | Name | Function |
|--------|------|----------|
| 1      | Port |          |

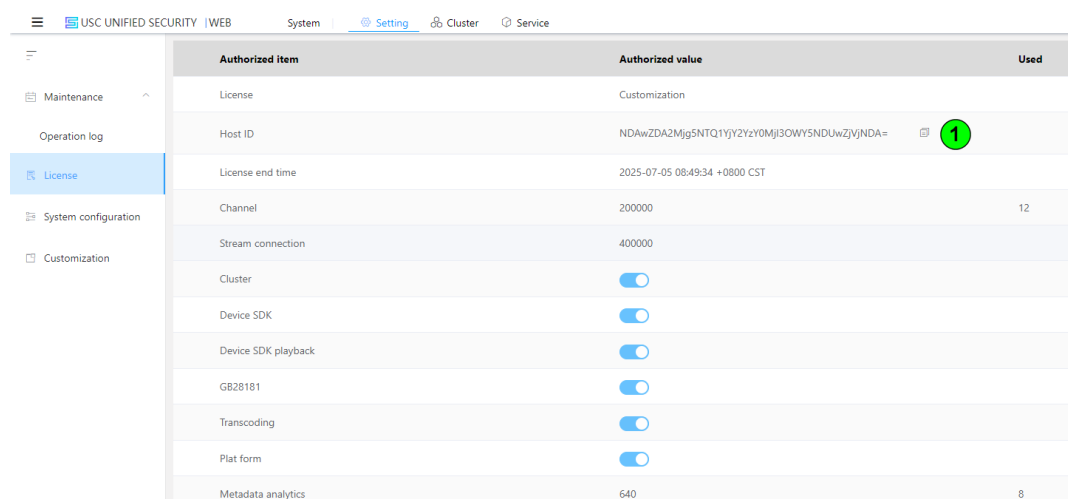
# 11.Appendix A FAQ

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## 11 Appendix A FAQ

### 1. How to obtain a test license?

You can log in to the USC Web **system-» Authorization Management**, and click the Copy button behind the host number.



|  | Authorized item     | Authorized value                             | Used |
|--|---------------------|----------------------------------------------|------|
|  | License             | Customization                                |      |
|  | Host ID             | NDAwZDA2Mjg5NTQ1YjY2YzY0MjI3OWY5NDUwZjVjNDA= | 1    |
|  | License end time    | 2025-07-05 08:49:34 +0800 CST                |      |
|  | Channel             | 200000                                       | 12   |
|  | Stream connection   | 400000                                       |      |
|  | Cluster             | <input checked="" type="checkbox"/>          |      |
|  | Device SDK          | <input checked="" type="checkbox"/>          |      |
|  | Device SDK playback | <input checked="" type="checkbox"/>          |      |
|  | GB28181             | <input checked="" type="checkbox"/>          |      |
|  | Transcoding         | <input checked="" type="checkbox"/>          |      |
|  | Plat form           | <input checked="" type="checkbox"/>          |      |
|  | Metadata analytics  | 640                                          | 8    |

Send the host number and company name and address to [info@linkingvision.com](mailto:info@linkingvision.com) to obtain a test license. Please note USC Security Platform in the email.

After receiving the lic file, place it in the conf directory and restart the software. If you replace the new license, please delete or move the old license file from the conf directory. Do not back up to the conf directory. The system reads the license file based on the file extension.



## 2. How to quickly upgrade and retain the configuration?

First stop the service, run as administrator  
uscunregservice.bat(Windows)/systemctl(Linux) to cancel the installation of the service, then copy or move the ***conf db*** directories from the old version to the new version. If there are test file video sources configured, move or copy the ***videos*** directory from the old version to the new version.

## 3. After replacing the NVIDIA model, deep learning inference does not work?

The system will generate optimized models based on the GPU model. After replacing the GPU, you need to regenerate the optimized model file. Therefore, you need to delete the .engine file in the modules/ai/egplus/egpluscudamodel directory, and then restart the system to regenerate the optimized model file based on the new GPU model.