

5-in-1 XVR  
User Manual

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## Statement

Thank you for choosing Devision, this user manual is intended for users of IP Camera. It includes instructions on how to use the product. Before using the device, read the user manual carefully. Keep this manual for further clarifications. The descriptions, images and technical parameters may vary with the actual devices. The software embodied in the product is governed by the user license agreement covering that product.

## Privacy Notice

Surveillance laws vary by jurisdiction. Check all relevant laws in your jurisdiction before using this product for surveillance purposes to ensure that your use of this product conforms. Please refer to the product specification for camera parameters and functions.

## Disclaimer

This quick start guide is for reference only. It may contain several technical incorrect places or printing errors, and the content is subject to change without notice. All information in this guide has been thoroughly reviewed. Devision Technology Co., Ltd. is not liable for damage caused by improper use of this device.

## Regulatory Information

### FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.




**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced technician for help.

### RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm

EU Conformity Statement	
	This product and if applicable, the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU, the RED directive
	2012/ 19/ EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see:
	2006/ 66/ EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recvcling. return the battery to vour supplier or to a designated

between the radiator & your body.

## Open Source Software License

This product contains software whose right holders license it under the terms of the GNU General Public License, version 2 (GPLv2), version 3 (GPLv3) and/or other open source software licenses. If you want to receive the complete corresponding source code, we will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:

Devision OSS support team Email: [opensource@jovision.com](mailto:opensource@jovision.com)

Postal: **Devision Technology Co., Ltd.**

**Floor 12 Building No.3, Aosheng Square, NO.1166 Xinluo Street, Jinan, Shandong, China**

Detailing the name of the product and the firmware version for which you want the source code and indicating how we can contact you.

*Please note that we will ask you to pay us for the costs of a data carrier and the postal charges to send the data carrier to you. The amount can be varied according to your location and Geniatech oss support team will notify the exact cost when receiving the request. This offer is valid for three years from the moment we distributed the product and valid for as long as we offer spare parts or customer support for that product model.*

### Change the default password

#### **Default XVR Account:**

**Username: abc Password: <empty>**



*The XVRs are not password protected when unboxing. You must change this default account settings to better protect against security risks, such as the unauthorized access by others to the product that may prevent the product from functioning properly and/or lead to other undesirable consequences.*

*For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product.*

## Important Safeguards and Warnings

### 1. Electrical Safety

All installation and operation here should conform to your local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

### 2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and

installation.

### 3. Installation

Keep upwards. Handle with care.

Do not apply power to the XVR before completing the installation.

Do not place objects on the XVR

### 4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorised modifications or attempted a repair.

### 5. Environment

The XVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc. This series product shall be transported, storage and used in the environment ranging from 0°C to 50°C

### 6. Accessories

Be sure to use all the accessories recommended by the manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

### 7. Lithium battery

Improper battery use may result in fire, explosion, or personal injury!

When replacing the battery, please make sure you are using the same model!







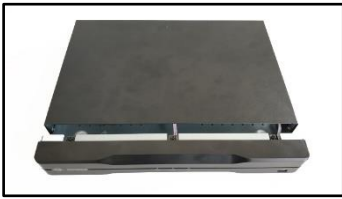

**Before your operation please read the following instructions carefully.**

#### **Installation environment**

- Keep away from extreme hot places and sources;
- Avoid direct sunlight;
- Keep away from extreme humid places;
- Avoid violent vibration;
- Do not put other devices on the top of the XVR;
- Be installed in well-ventilated place; do not block the vent.

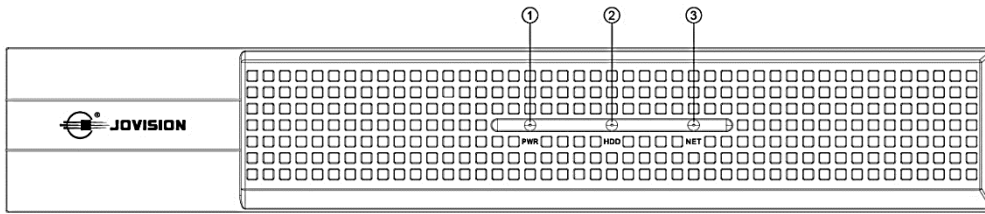
# 1. Hardware Installation and Connection

## 1.1. HDD Installation

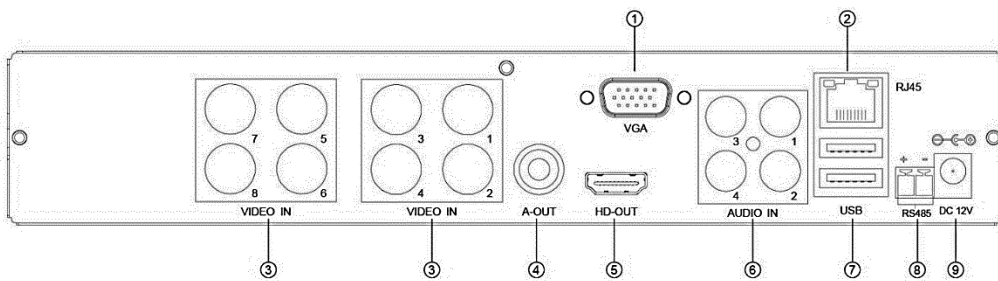
<p>1. Loosen the screws of the upper cover and side panel, remove the upper cover.</p>		
<p>2. Model A: Place the HDD in accordance with the four holes in the bottom. Fix the hard disk firmly on the baseboard of chassis with four screws. Connect the HDD cable and power cable.</p>		
<p>Model B: Aim the power and SATA port of Hard disk at HDD ports on the XVR motherboard, and insert it cautiously. Fix the hard disk firmly on the baseboard of chassis with four screws.</p>		
<p>4. Put the cover in accordance with the clip and then place the upper cover back, secure the screws.</p>		

## 1.2. XVR Front and Rear Panel

Note: Appearance and interface may vary due to different models.



- ① Power Light
- ② HDD Light
- ③ Network Indicator Light



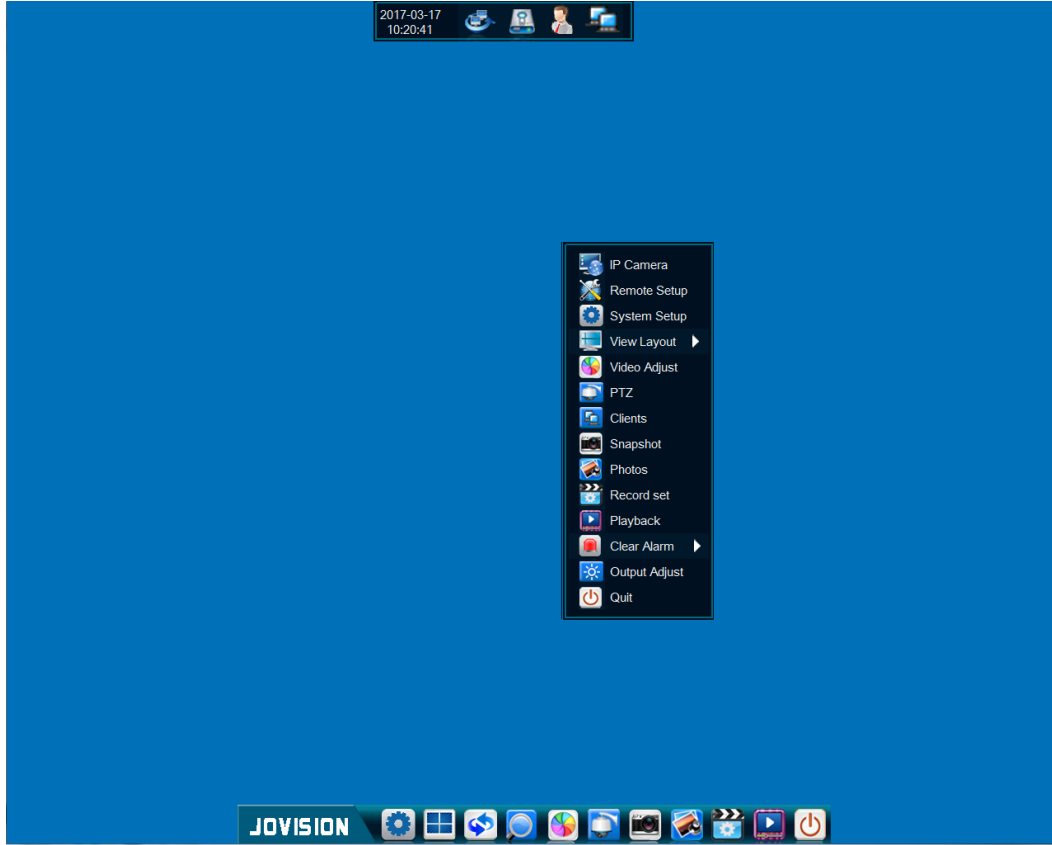
No.	Name	No.	Name
1	VGA Interface	6	Audio In
2	LAN Network Interface	7	USB Interface
3	Video In	8	RS-485 Serial Interface
4	Audio Out	9	12VDC Power Input
5	HDMI Interface		



## 2. Interface Instruction

Connect the XVR according to the connection diagram and power on the XVR, XVR will boot up and video will display on the monitor.

Note: Number of displayed window may vary. The following figure is for reference only.



### 2.1. Menus

#### Main menu

Move the mouse to the bottom of the screen, the main menu will pop-up.

System Setup, View Layout, Sequence, Zoom, Video Adjust, PTZ, Snapshot, Photos, Record setting, Playback, Quit (*left to right*)



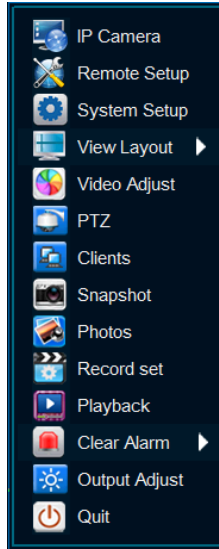
#### Status Menu

Move the mouse to the top of the screen, the status menu will pop-up, in which you can check time, network status, storage status and alarm status.









### Right-Click Menu

Right click on a channel, the menu will show.



## 2.2. Live-View Icon

There will be some icons showing on the channel live view window, which indicate the channel recording or alarming status. You can refer to the following sheet for channel recording or alarming status information.

Live-View Icon	Instruction	Live-View Icon	Instruction
	Recording...		Audio monitoring not enabled
	Connected by remote client		Audio monitoring enabled
	Alarm set, not triggered		Alarming...

## 3. Startup and Power off

### 3.1. Boot up

Make sure all the devices in the environment have been configured and connected properly, power-on the XVR, XVR system will search and connect network camera in the environment automatically. After searching and adding, the system will display live video of the cameras added.

**Notes:**

Only when the XVR boot up for the first time, or there is no network camera added before, the XVR will search and add network camera automatically.

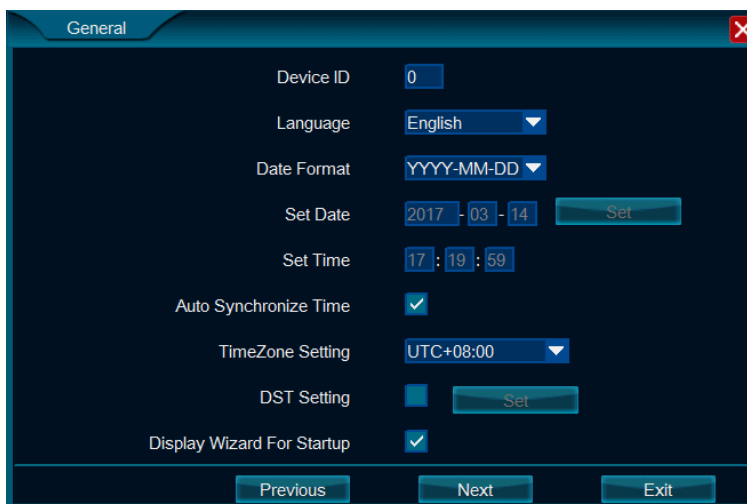
### 3.2. Startup Wizard

Startup wizard is enabled by default, you can disable this wizard in **System Setup-General-General-Display Wizard for Startup**.

Page 1: You can get CloudSEE APP, CloudSEE ID, and visit Devision BBS by scanning these QR Codes.

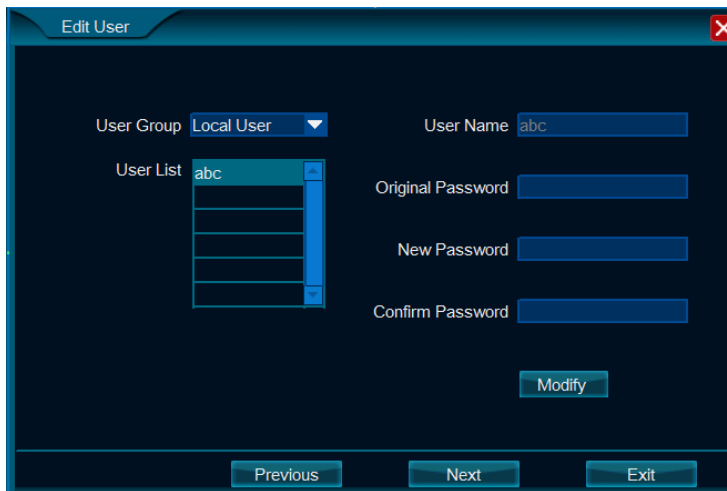


Page 2: Remote controller device ID, Language, Date, Time, Startup wizard, etc. can be set. You can access these settings in **Menu-System Setup-General**

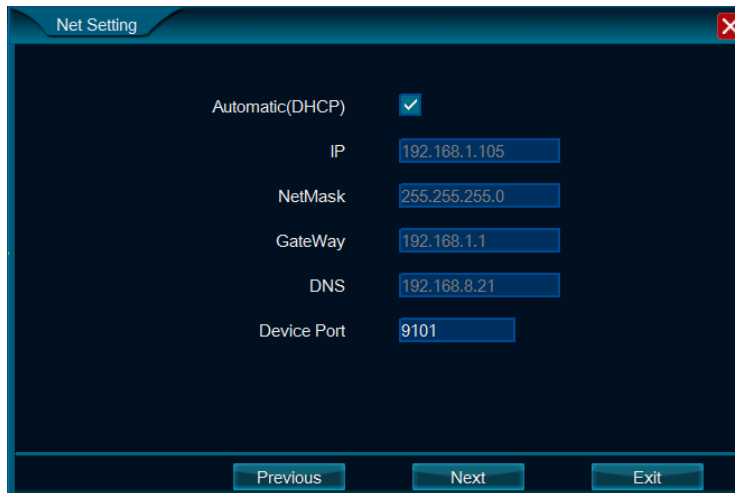


Page 3: You can manage users here, create new users or change password, please refer to **4.2.3**

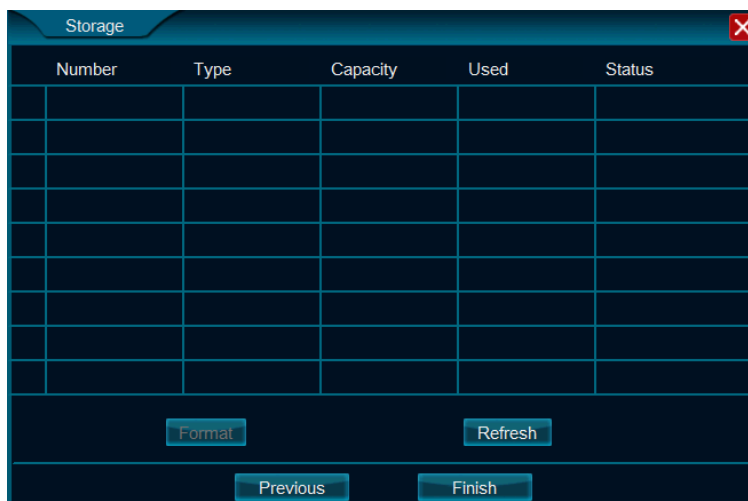
User for detailed information.



Page 4: Network settings, please refer to **4.3.3.1 Connection** for detailed information.

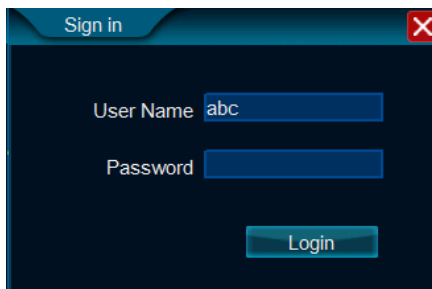


Page 5: Storage, you can format hard disk or check the status here.



### 3.3. Login

After booting up and connecting the network cameras, the system is in multiple-channel display mode. You need to login for further operations. Click any item in the menu, the Login dialogue box appears.




Default XVR local account:

**User Name:** abc      **Password:** <empty>

**Notes:**

- Please change the password after you first login.
- Within 30 minutes, three times login failure will result in system alarm and mouse lock until login success.

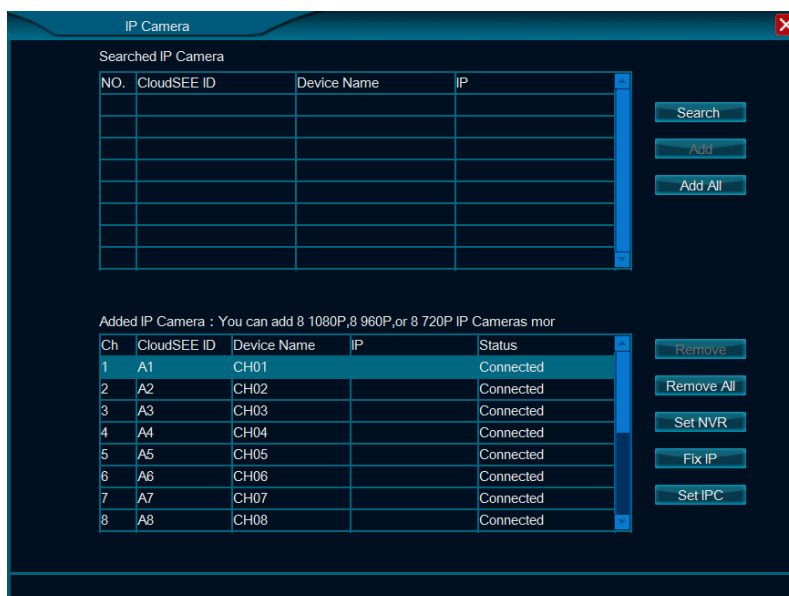
### 3.4. Power off

Click Quit  in the main menu at the bottom of the screen, and power menu appears. You can *Logout, Power off, Reboot* the XVR system.

## 4. Functions and Settings

### 4.1. IP Camera Management

All the network cameras in the LAN can be automatically detected and listed by XVR. Right click in the main view, select **IP Camera**, and IP camera management dialogue box appears. Click **Search** to detect all the network cameras in the LAN, which will be listed after searching, as shown below.



Select one camera and click **Add**, the camera will be added to XVR. Click **Add All** to add all detected cameras, but the number of added cameras cannot be more than the limit of XVR. Use **Advanced Add** to add ONVIF protocol network camera.

Select one added camera and click **Remove** to remove the camera, **Remove All** to delete all added devices. Select one added camera and click **Set IPC** to input username and password of the camera

Item	Description
Search Mode	There are two modes you can choose, Simple Mode and Intelligent Mode. Simple Mode: XVR can only search cameras in the same network segment. Intelligent: XVR can find cameras across different network segments in LAN.
Search	Scan cameras in the LAN and list these cameras.
Add	Choose one camera in search list, click add to add it to XVR
Add All	Add all searched cameras to XVR
Advanced add	You can add cameras by input camera IP or CloudSEE ID. (For 8CH or more XVR)
CH Sort	You can drag a channel window to the position you want.
Remove	Choose an added camera and click remove to remove the camera.
Remove all	Remove all added cameras.
Set NVR	Access NVR system settings.
Fix IP	Re-assign IP for the XVR and connected cameras.
Set IPC	Select one added camera and click "Set IPC" to input camera access account, set network, set stream, or adjust video output.

### 4.1.1. Advanced add

**Note:** For 8CH and above only

If you are using a Devision camera, but the camera is not on the LAN, which means you cannot add the camera to XVR by searching and adding. You can choose CloudSEE, input CloudSEE ID and access account of the camera, click OK to connect.

If you are using an ONVIF camera from other company in the same LAN, you can choose ONVIF, and input its IP, port, access account, click OK to connect.

### 4.1.2. Set IPC



XVR will connect the camera with default camera access account (Username: abc Password: 123), if the access account is not the default one, you can input correct username and password to access the camera.

#### Batch Input PWD

If all connected camera is with same access username and password, you can use this function to copy the username and password of the current camera to all channel.

#### Net Setup

You can set the network for the camera here. Usually, cameras use DHCP if there is a DHCP server in the LAN network. You can also uncheck the DHCP and input network information manually.

#### Stream

Stream settings can be changed here, please refer to **4.3.2.2 Stream** for detailed information.

#### Video Settings

Video settings can be changes here, please refer to **4.5. Video Adjust** for detailed information.

#### Network Status

##### Stream Status

No.	Status	Description
1	No Video	No camera is added to the channel
2	Unconnected	The camera has been added but didn't connect.
3	Connecting	XVR is connecting the camera
4	Connected	The camera has been connected in XVR
5	Wrong Password	The camera cannot be connected due to the wrong password
6	Timeout	The camera cannot be connected, troubleshooting is needed
7	Rebooting	The camera is rebooting.
8	Service Broken	The camera cannot be displayed, troubleshooting is needed
9	Coding Problem	The camera connected is not supported.
10	Connection Limited	Too many clients are connecting this camera, remote connection limitation is reached, please disconnect the camera

on other clients.

**Video Preview/Record**

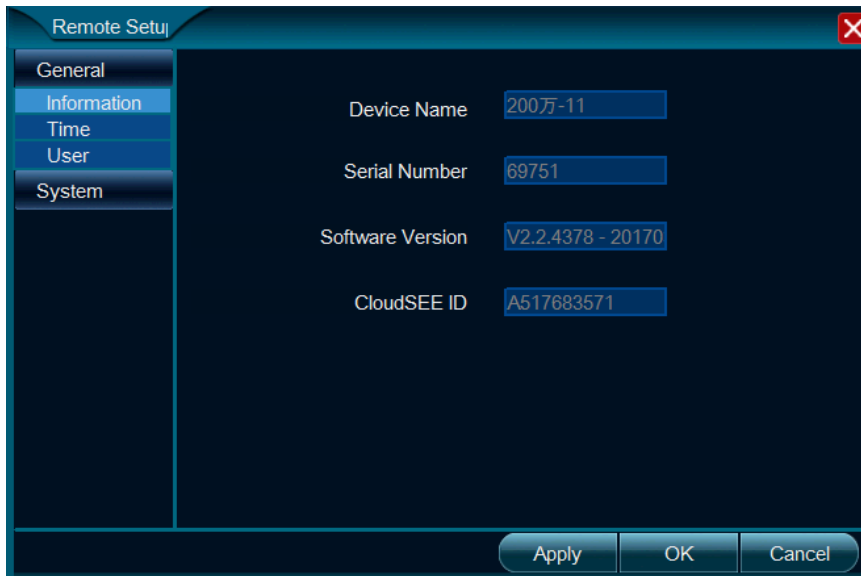
No.	Status	Description
1	Preview Normal	Real-time video is displaying in XVR
2	Preview Abnormal	When encountering this information, please try the following instructions: ① Remove the camera and add it again ② Make sure the connection is good.
3	Record Normal	The video is recording and can be checked in playback
4	Record Abnormal	When encountering this problem, please try the following instructions: ① Enable record function manually ② Make sure the hard disk is well connected and can work.
5	Detecting	XVR is detecting the status, please wait

## 4.2. Remote Settings

You can manage IP camera users, camera time, and update IP camera here. All the settings in **Remote Settings** are for IP camera selected.

### 4.2.1. Information

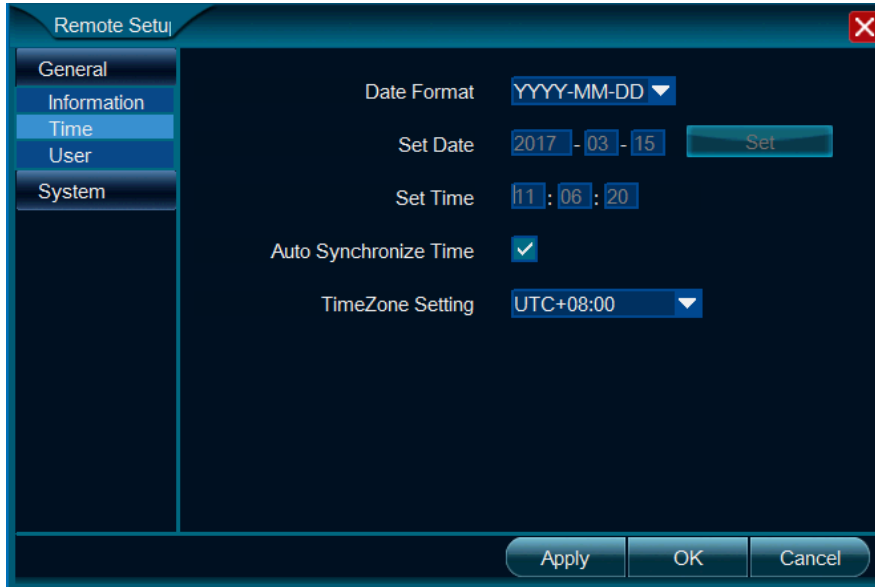
Camera SN, software version, and CloudSEE ID can be checked.



### 4.2.2. Time

Camera's time and date can be adjusted here.

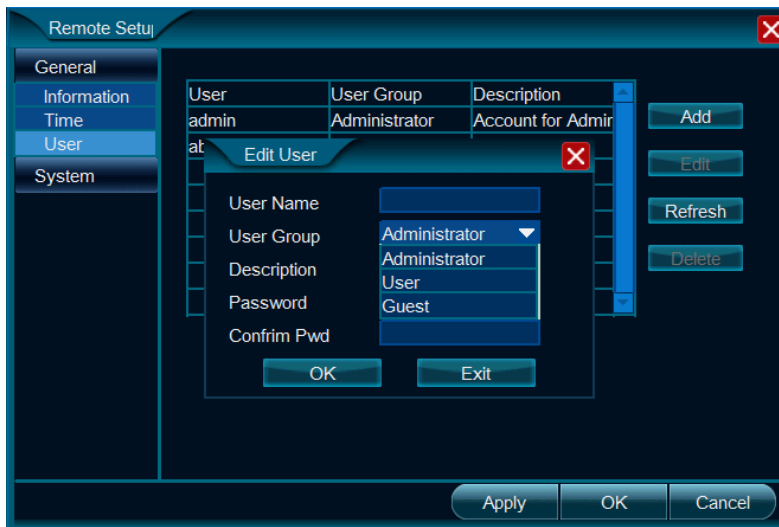




### 4.2.3. User

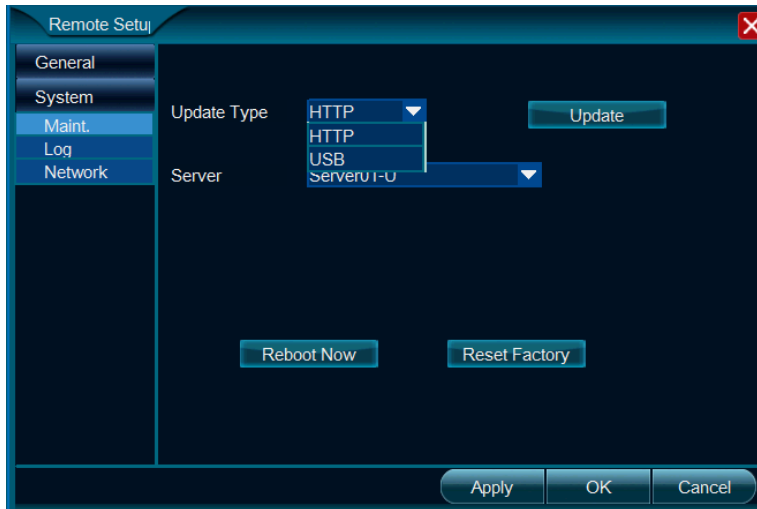
Camera access account here, you can create a new user or edit current users. There are three user groups: Administrator, User, and Guest.

Group	Description
Administrator	An administrator has all the permissions of the camera
User	A user has all permissions except "User Management" and "System Update"
Guest	A guest can only view the live video.



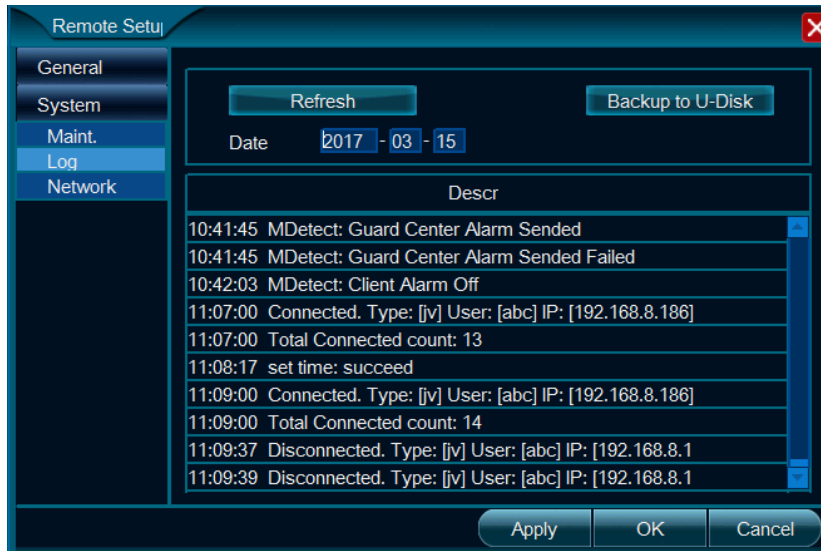
### 4.2.4. Maintenance

There are two ways to update a connected camera on XVR: USB update and HTTP update.  
 HTTP update: Choose HTTP in update type pull-down menu, select a server, and click update.  
 USB update: Choose USB in update type pull-down menu, insert USB flash disk with update files in its root directory, select the update file and click update to update the camera.



### 4.2.5. Logs

Camera logs can be checked here. You can also backup these logs to USB devices.



## 4.3. System Settings

### 4.3.1. General

#### 4.3.1.1. General

You can change XVR system language, set video output resolution and input remote control's device ID.

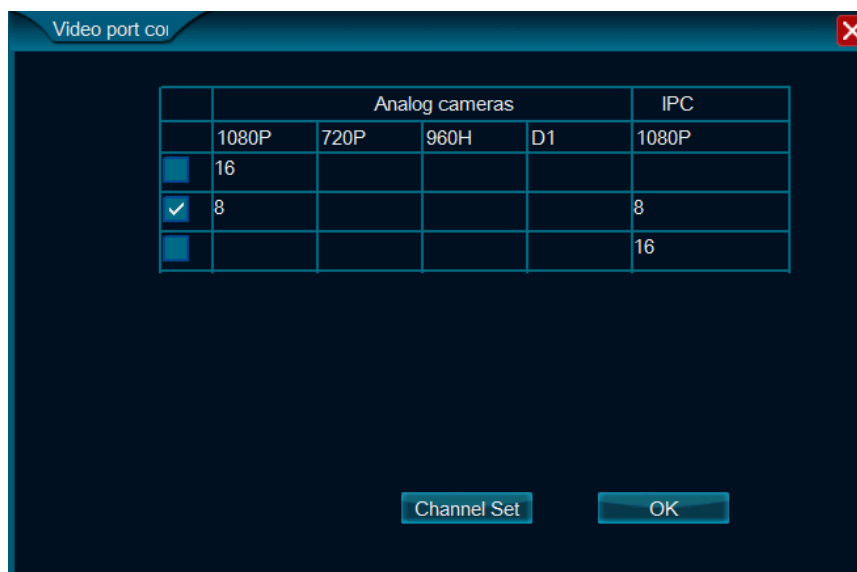
Item	Description
Language	You can choose XVR system language.
Transparency	Translucent, transparent, opaque mode are supported
Device ID	Input the device ID for remote controller
Resolution	Adjust the output video resolution of XVR.
Start Wizard	You can enable/disable start wizard when power up, and you can start the

	wizard by clicking the button.
<b>Work Mode</b>	You can set the device mode to All analog, All IP or Analog and IP mix
<b>NTC/PAL</b>	You can change the video settings to PAN or NTSC



a. Video Port Configuration

You can set up the video port as Analog Only, IP Only or Analog and IP Mix



b. Channel Setup

You can set up the analog channels to different modes.



#### 4.3.1.2. Time

XVR system time and date can be changed or edited here.



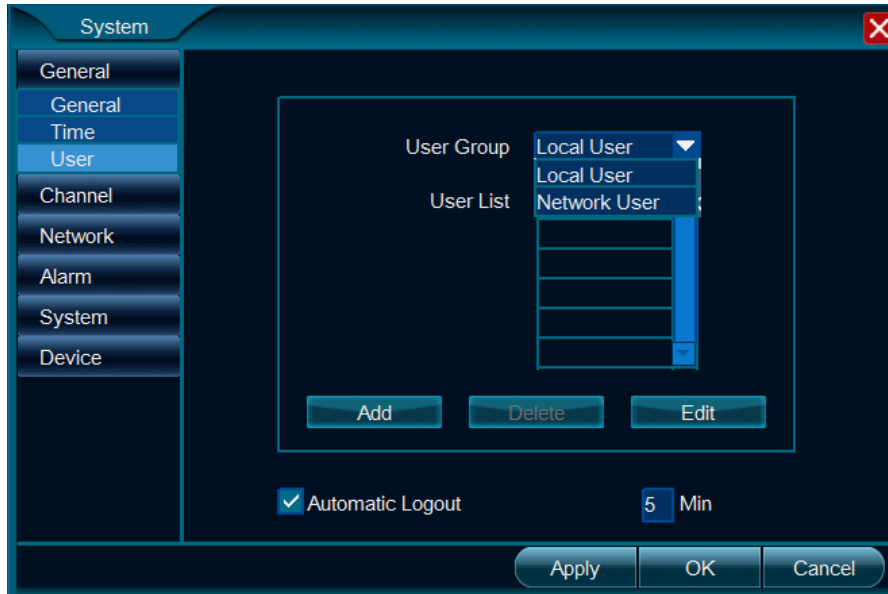
#### 4.3.1.3. User

You can create a new user(s) by clicking “Add” or edit a current user(s) by selecting a user and clicking “Modify”. There are two user groups you can select, Local user and Network user.

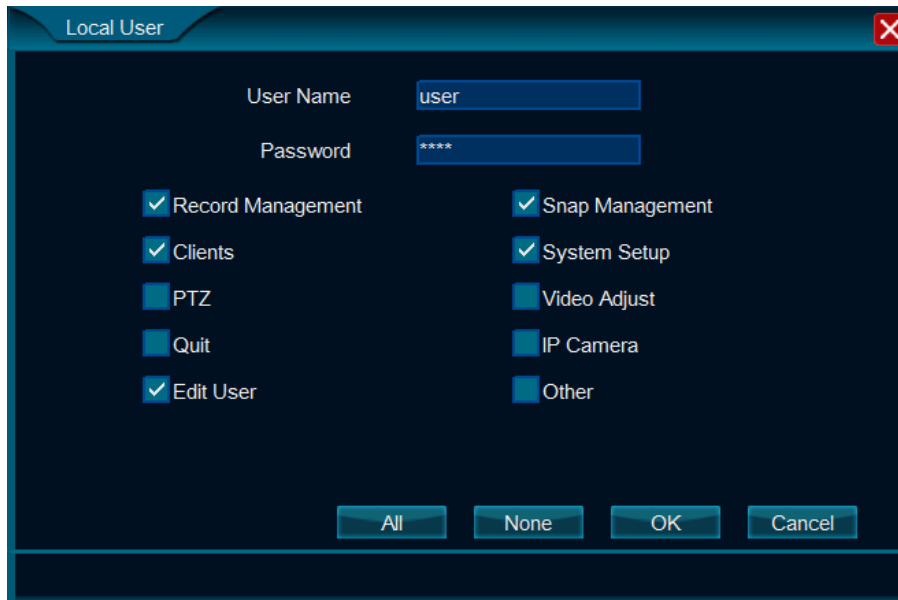
**A local user** is for logging in on local XVR, the **network user** is for connecting and accessing the XVR on clients remotely.

Items	Description	Note
Group	Select the user group you want to manage	
List	All local/network users are listed here	
Add	Click this button to create a new user	If you are editing the local user that you are logging in and you can only change the password. If you are editing the network user that you are logging in remotely and you

		cannot change anything.
<b>Delete</b>	Select one user and click this to delete the user	
<b>Edit</b>	Select one user and click this to change password or permissions.	User need to login again for further operation
<b>Automatic Logout</b>	User will logout If there is no operation	



DO NOT forget to select proper permissions when creating a new user or modifying a user. A newly created user is without any permission.



Permission	Description
<b>Record</b>	Permission to enable/disable recording, playback, and backup video.
<b>Snapshot</b>	Permission to snapshot, check and backup snapshots.
<b>Clients</b>	Permission to check/disconnect connections of remote clients.
<b>System Setup</b>	Permission to access XVR system setup menus.

PTZ	Permission to access PTZ function.
Video Adjust	Permission to adjust camera image effects.
Quit	Permission to logout, restart or power off.
IP Camera	Permission to manage IP cameras.
Other	Permission to clear the alarm.

### 4.3.2. Channel

#### 4.3.2.1. Preview

##### A. Preview

You can change camera name and OSD settings here.



Item	Description
Channel name	The user can edit the channel name displaying on the video window.
Show OSD	Change the position of channel name or hide.
Position	Change the position of time and date or hide.
Large Font	Use large font OSD for high resolution.
Hide Video	The live video will be hidden.

##### B. Icon Set

There will be some icons showing on the channel live video window, which indicate the channel recording or alarming status. You can refer to the following sheet for channel recording or alarming status information. You can enable large icon or change icon position here.

Icon	Instruction	Icon	Instruction
	Recording...		Audio monitoring disabled
	Connected by remote client		Audio monitoring enabled
	Alarm function enabled, but not triggered		Alarming...

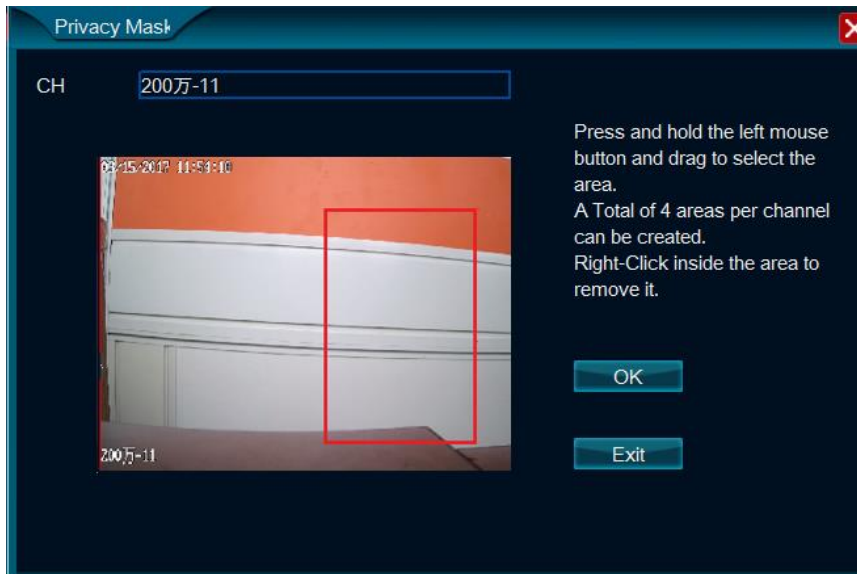


**C. Privacy Mask**

This function allows you to cover an area with a black block, both in live view and recording. Supports up to 4 private areas. Enable this function and click setting, setting page will appear.



Drag the mouse and draw a rectangle covering the area you want, double-click to confirm. Right click on the rectangle to cancel the area.



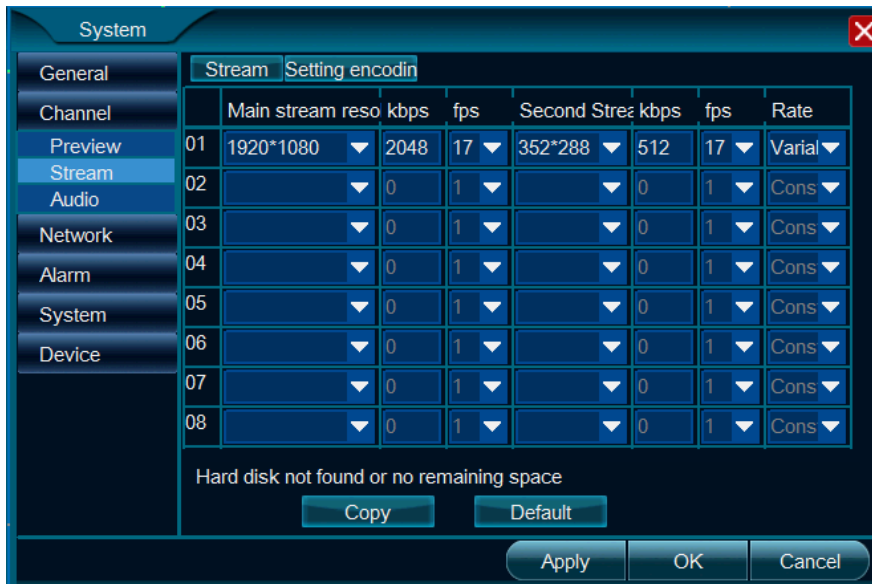
4.3.2.2. Stream

**A. Stream**

Our network camera supports dual stream for different usage, you can change the video settings for better performance, network transmission or longer-time storage.

**Main Stream:** Also called *recording stream*, used for recording, and if there is one channel full-screen displaying, this stream will be displayed.

**Second Stream:** Also called *sub-stream or minor stream*, used for the live view if there are multi-channels displaying.



Items	Description
<b>Resolution</b>	Resolution is the width and height dimensions of the camera imaging in pixels. A higher display resolution in a display of the same size means that displayed content appears sharper.
<b>FPS</b>	Frame rate, also known as frame frequency, is the frequency (rate) at which an imaging device displays consecutive images called frames. The higher frame rate is, the more consecutive video becomes.



<b>Bitrate (Kbps)</b>	Bitrate is the average number of bits per second passing between camera and JXVR or XVR. A higher bitrate means that the stream quality is better but which will use more bandwidth and storage space.
<b>Bitrate Control</b>	<p><b>VBR:</b> Variable Bit Rate, VBR files vary the amount of output data per time segment. VBR allows a higher bitrate (and therefore requires more storage space) to be allocated to the more complex segments of video files while less space is allocated to less complex segments.</p> <p><b>CBR:</b> Constant Bit Rate, CBR means that the rate at which a codec's output data should be consumed is constant. Lower bitrate is useful for streaming multimedia content on limited capacity channels since it is the maximum bit rate that matters, but it cannot allocate enough data for complex sections. A Higher bitrate will provide enough bits for the entire coding process, though the size of the file at the end would be proportionally larger.</p>
<b>Copy</b>	Apply the settings for this channel to all channels
<b>Default Settings</b>	Restore default system settings.

**B. Encoding Format**

You can choose H.264/H.265 coding standard. (Both XVR and IP camera need support H.265.)



4.3.2.3. Audio

If an audio pick-up or microphone has been connected to the camera, you can enable audio recording or audio monitoring here.



Item	Description
Audio Record	If enabled, record files are with video and audio.
Audio Monitor	Enable audio monitor for the channel, click on the channel to play audio.
Type	Choose the audio coding type, choose the same coding format as IPC setting.
Volume	Adjust the volume the audio
Copy	Apply the settings for this channel to all channels.
Default	Use factory default settings for this page.

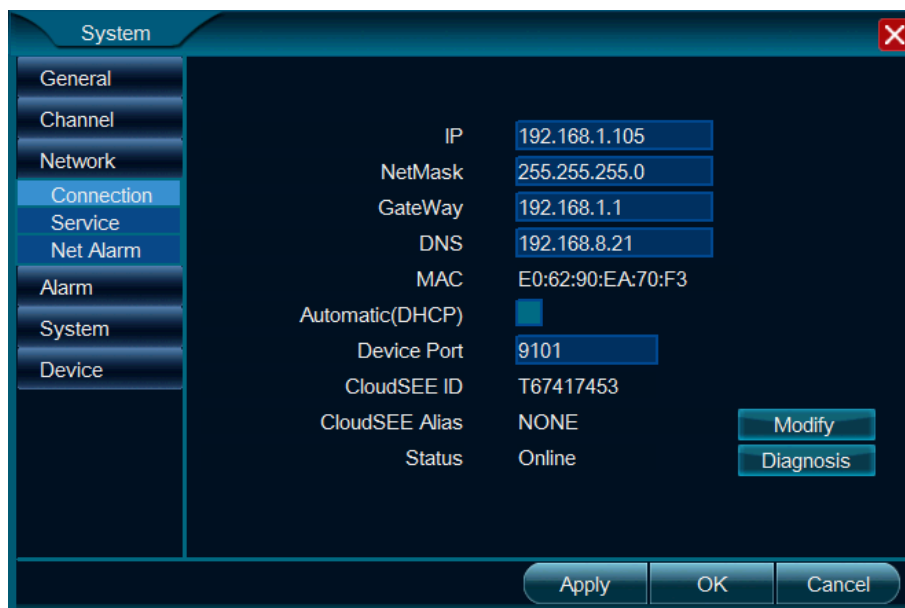
### 4.3.3. Network

#### 4.3.3.1. Connection

Select "DHCP", if your network has DHCP server.

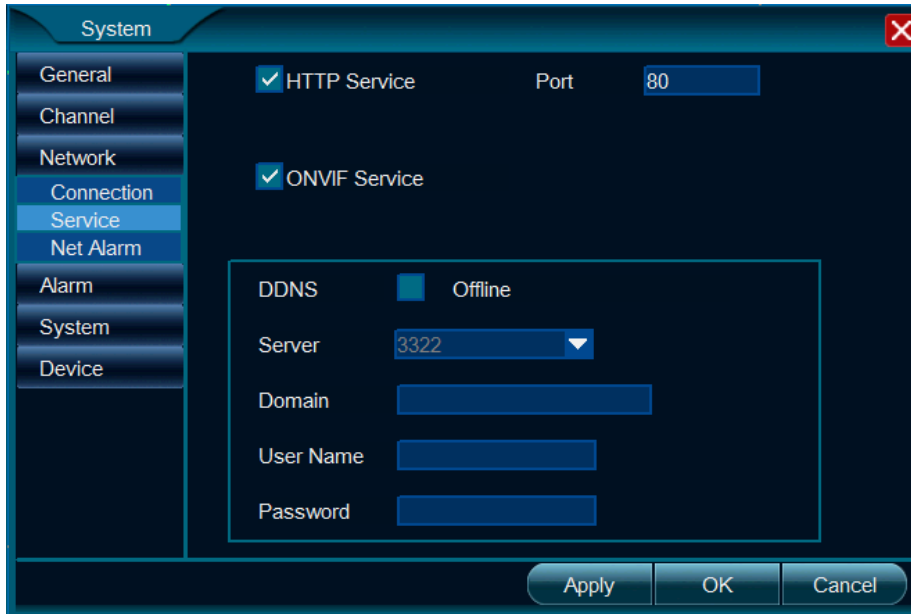
Unselect "DHCP", and input the network information, if your network uses static IP.

You can check the status of CloudSEE ID, if it is online, then the XVR can be connected remotely.



### 4.3.3.2. Service

You can set HTTP service, two-way talk, and DDNS function here.

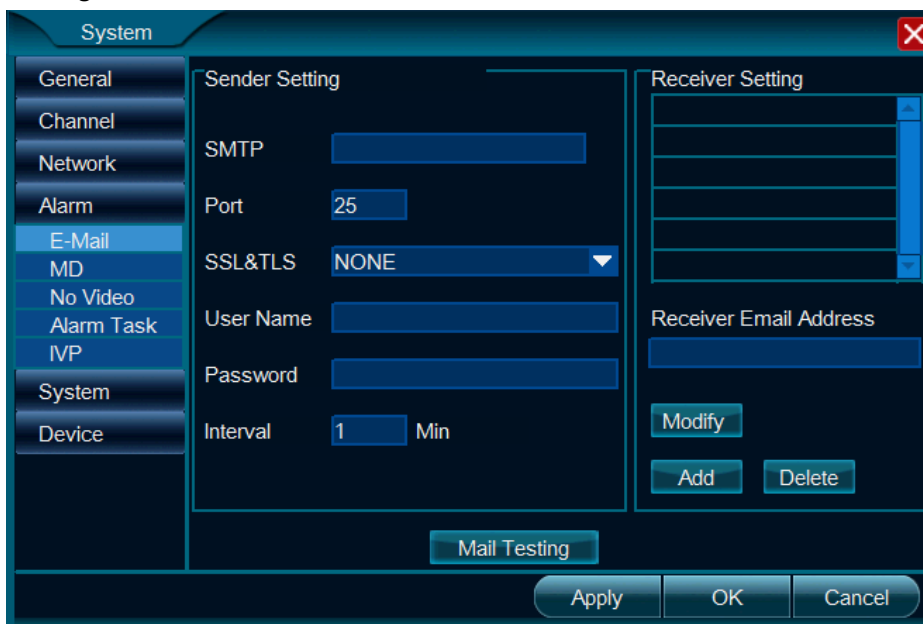


Item	Description
HTTP Service	Enable HTTP service and set correct port number, XVR can be connected in WebCC. (Not available in some countries)
Two-way talk	Enable this and choose the channel to use two-way talk function.
DDNS	For users who use DDNS (Dynamic Domain Name Server).

### 4.3.4. Alarm

#### 4.3.4.1. E-mail

XVR can be configured to send an Email notification to all designated receivers if an alarm event is detected, e.g., motion detection event, video loss, etc.



Items	Description
SMTP	Choose or input the SMTP server of sending E-mail
Port	Input the port for SMTP
SSL&TLS	Choose the security protocols for SMTP
User Name	Username of sender
Password	Password of sender
Interval	Set the interval of sending E-mails
Receiver E-mail Add.	E-mail(s) to receive alarm e-mail
Modify	Modify receiver E-mail address that has been added
Add	Add new E-mail to receive alarm e-mail
Delete	Remove a selected receiver E-mail
Mail Testing	Send test e-mail to check whether these settings work fine

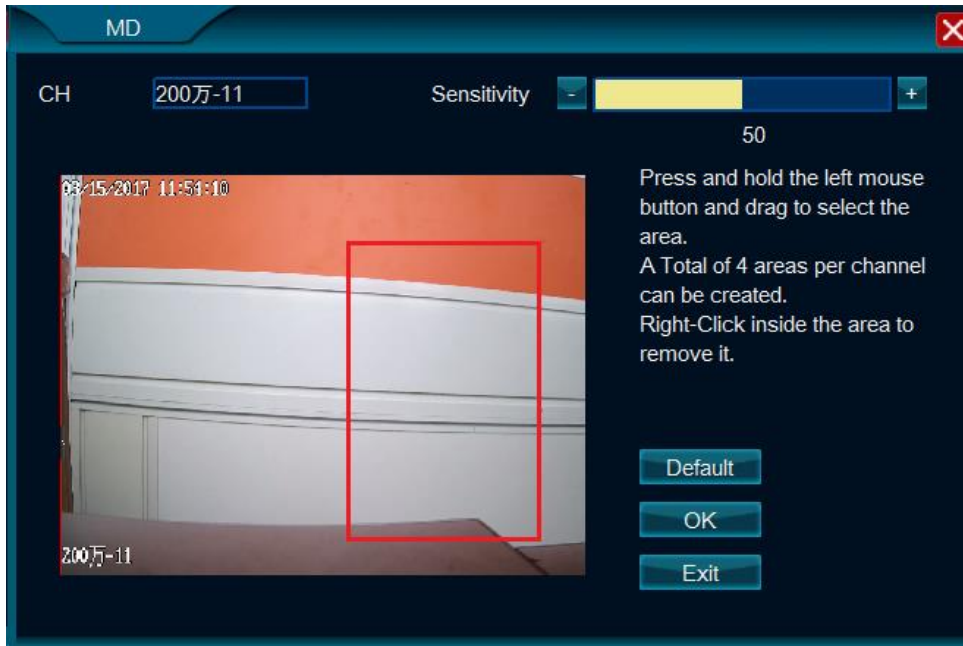
#### 4.3.4.2. Motion Detection

Motion detection detects the moving objects in the configured surveillance area, and a series of actions can be taken when the alarm is triggered.

Enable the function for the channel click **Set**, long press mouse and drag to select the area, and you can choose 4 areas at most for one channel. Sensitivity can also be set here. Click OK to save the settings.

You also need to set "Alarm Output" to configure alarm actions the XVR to take when the alarm is triggered please refer to **4.3.4.5 Alarm Output**.





#### 4.3.4.3. No Video

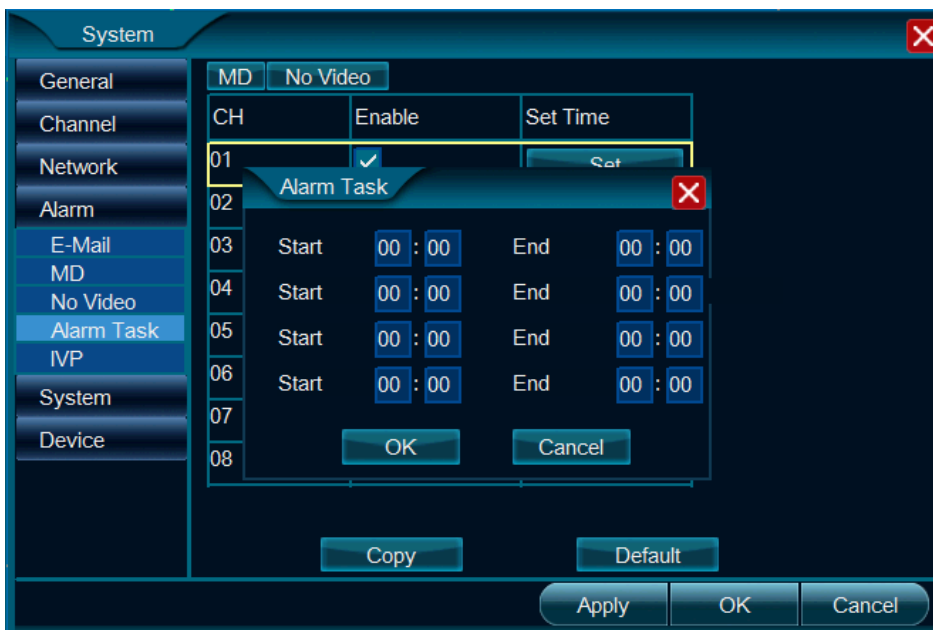
Enable “No Video Alarm” for the channel, if the camera is disconnected or lost video, XVR will alarm.

You need to set “Alarm Output” to configure alarm actions the XVR to take when the alarm is triggered please refer to **4.3.4.5 Alarm Output**.



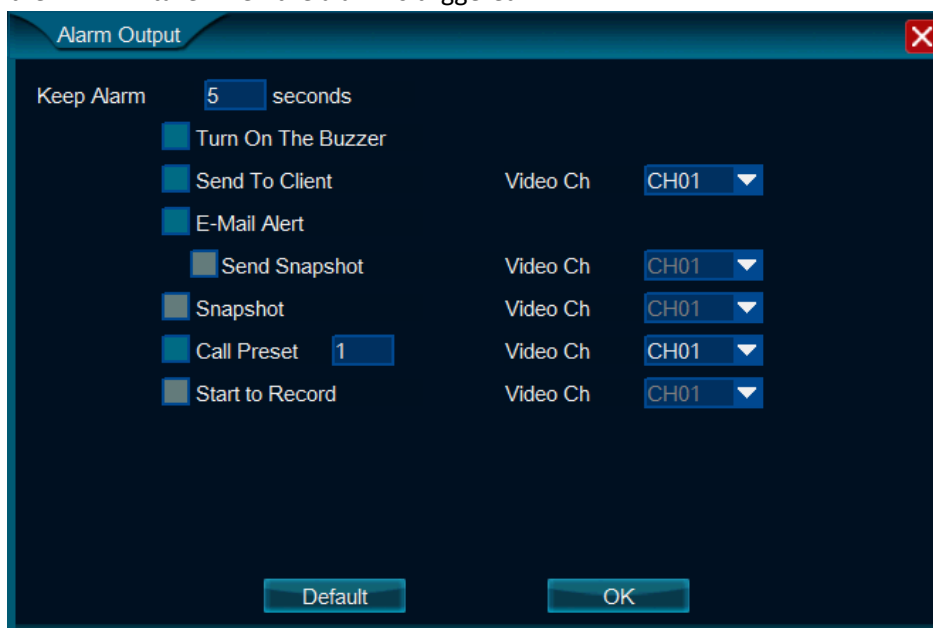
#### 4.3.4.4. Alarm Task

You can choose a time range during which the motion detection or no video alarm will be enabled. The alarm will be disabled automatically in another time period.



#### 4.3.4.5. Alarm Output

You need to set “Alarm Output” for each alarm function and channel separately to configure alarm actions the XVR will take when the alarm is triggered.



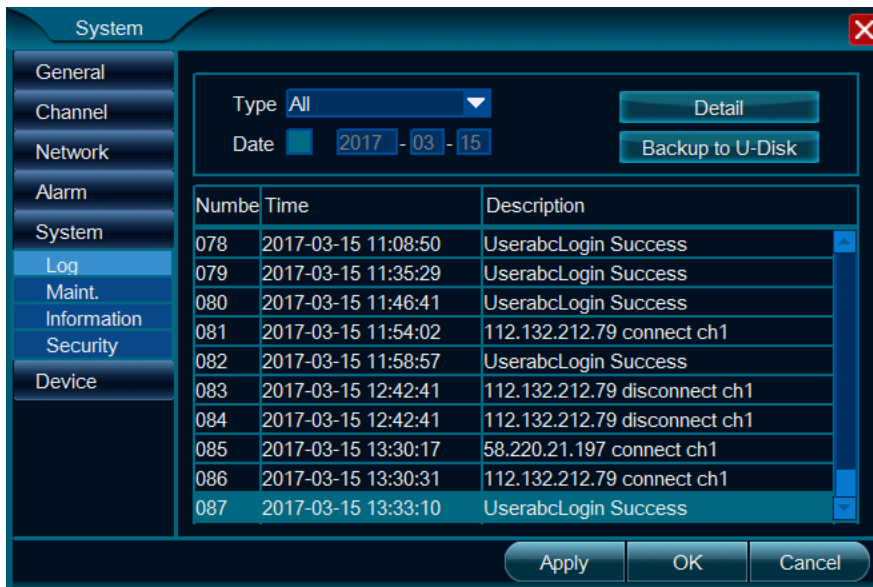
Items	Description
Keep Alarm	Set a time the alarm will last for when the alarm is triggered, the new alarm will not be triggered until the previous alarm is finished.
Turn on the Buzzer	The buzzer inside the XVR will buzz when alarming.
Send to Client	The remote client will alarm when alarming.
E-mail Alert	XVR will send alarm E-mail when alarming.
Snapshot	XVR will send alarm E-mail with a screenshot when alarming.
Call Preset	XVR will call preset point when alarming. (For PTZ camera only)

<b>Start to Record</b>	XVR will start recording when alarming.
<b>Output Module</b>	Alarm device connects to XVR will work when alarming. (For some model with RS-485 port only)
<b>Video CH</b>	Select the camera to take alarm action.

### 4.3.5. System

#### 4.3.5.1. Logs

You can check/ backup XVR logs here

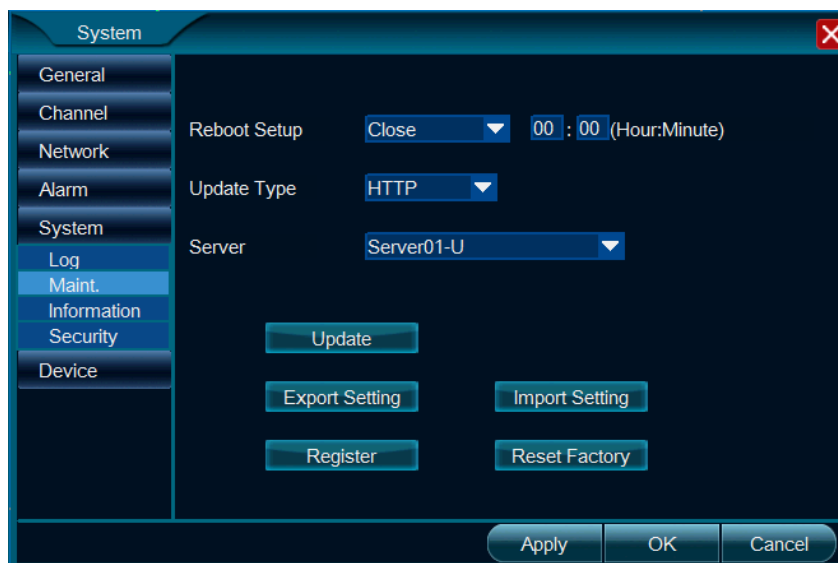


#### 4.3.5.2. Maintenance

You can update the XVR here. There are two ways to update the XVR: USB update and HTTP update.

**HTTP update:** Choose HTTP in update type pull-down menu, select a server, and click update.

**USB update:** Choose USB in update type pull-down menu, insert USB flash disk with update files in its root directory, select the update file and click update to update the XVR.



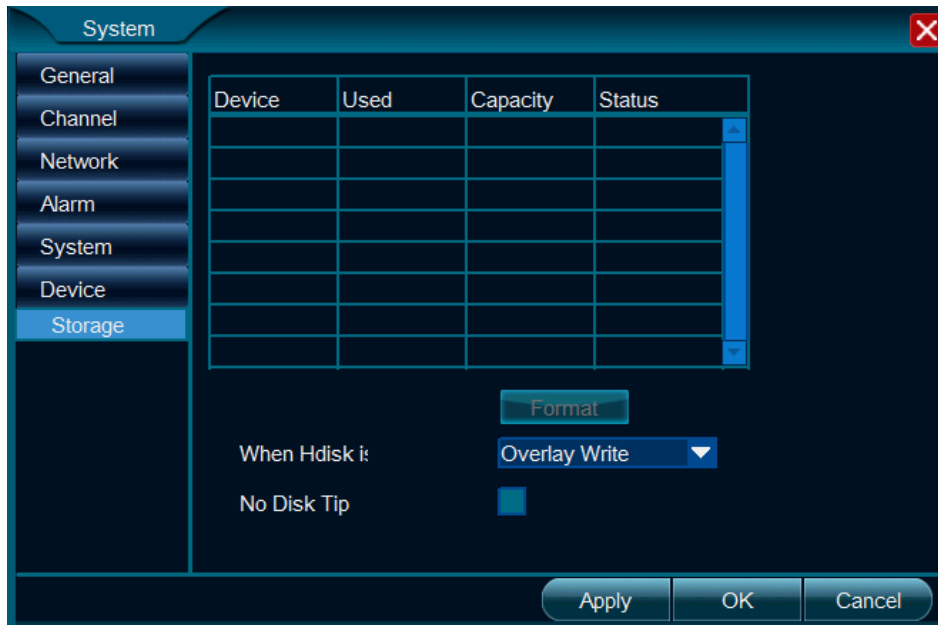
#### 4.3.5.3. Information

You can check XVR model, CloudSEE ID, SN, version information.



#### 4.3.6. Device

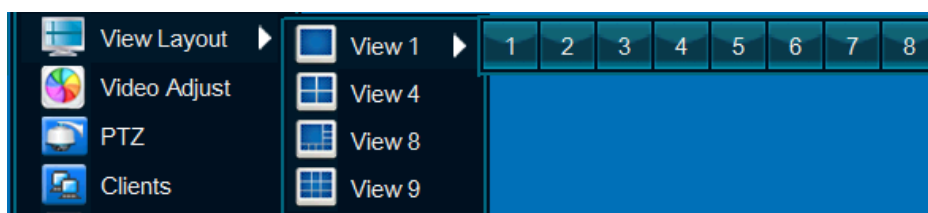
You can check storage information and format HDD here.



#### 4.4. View Layout

You can change the XVR screen layout, 1/4/8/9 channel can be selected. Choose the number after “View 1” to switch the channel.





## 4.5. Video Adjust

**Menu—Video Adjust**, you can adjust video displaying settings here.



Items	Description
<b>Contrast</b>	Set the difference in luminance or colour that makes display distinguishable.
<b>Brightness</b>	Set the brightness of the video.
<b>Chroma</b>	Chroma (saturation) is the colorfulness of a colour relative to its own brightness. A high saturation is vivid and intense, while a less saturation appears more muted, closer to grey.
<b>Sharpness</b>	Set the subjective perception of sharpness that is related to the edge contrast of the image.
<b>Scene</b>	Support Indoor, Outdoor, Default, Soft.
<b>Day Night Mode</b>	Select the mode of day-night switching, support Auto, Always Color, Always Black/White, Time Color.
<b>Corridor</b>	Support rotate 0°, 90°, 180°, 270°. When the camera is installed in a narrow scene or with different angle, use this to get better view
<b>Exposure</b>	Set the period of exposure, the camera will adjust automatically in the range. If the is power frequency interference, you can adjust exposure time to avoid it.
<b>AWB</b>	AWB can compensate for the slight colour differences in different types of light, or make the colours warmer or cooler to match the intended mood of your video.
<b>Night Self-</b>	With night self-adaption, the camera can adjust night vision effect

adaption	according to the object.
WDR	Wide Dynamic Range: With WDR, a camera can record greater scene details, from shadows to highlights than normal.
Mirror	Show the mirror image of the video, in which the right side of the original object appears on the left and the left side appears on the right
Reverse	Make the picture upside down.
Defog	Select the function in fog weather to improve the clarity.
Default Settings	Restore default system settings.

## 4.6. PTZ

In the live view interface, you can use the PTZ control buttons to realise pan/tilt/zoom control of the camera.

**Note:**

To realise PTZ control, the camera connected to the network must support the PTZ function or a pan/tilt unit has been installed to the camera. Please properly set the PTZ parameters on the RS-485 settings page.

### 4.6.1. Preset

Preset is a basic unit in PTZ function, it contains PTZ position and status information, with which a PTZ camera can turn to the position you set when clicking goto (or call preset). You can also set a patrol line with several presets.

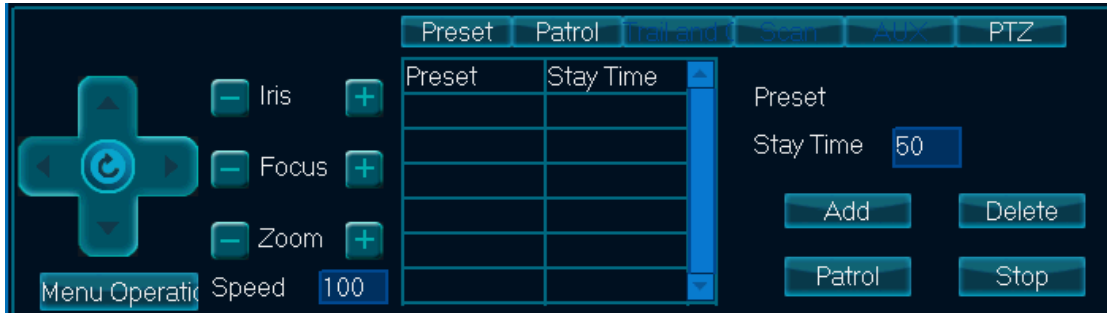


Items	Description
Navigation Keys	There are for direction arrows, Use     to control the view of PTZ camera; Use  to start rotating horizontally.
Iris	Adjust the iris of the camera.
Focus	Adjust the focus of the camera.
Zoom	Zoom in and zoom out
Speed	Adjust the speed of pan/tilt movements.
Preset	Preset number, 1 to 255, support 256 presets in total.
Add	Adjust the position of the camera view, click this button to add current view position as a preset.
Delete	Select a preset, and remove it with this button.
Goto	This feature enables the camera to point to a specified preset scene

manually or when an event takes place. For the defined preset, you can call it at any time to the desired preset scene.

### 4.6.2. Patrol

You can edit a patrol line with presets and stay time, the PTZ camera can rotate and zoom according to your setting.



Items	Description
Preset	Select the preset(s).
Stay Time	Patrol duration of the preset.
Add	Add the preset to patrol line.
Delete	Delete the preset from patrol line.
Patrol	Start patrol.
Stop	Stop Patrol.

### 4.6.3. Trail and Guard

**Trail:** Set a patrol path manually by using direction arrows instead of presets, the system will remember the path and save it.

**Guard:** Set a view position and duration to watch the point.



Items	Description
Record	Click Record and set a patrol path manually by using direction arrows, the path will be stored.
Finish	Click Finish to stop path recording and save it.
Start	Start path patrol.
Stop	Stop the path patrol.
Guard	Add the preset to patrol.
Preset	Select the preset used for a guard.
Time	Set the duration of the guard.
Start	Start guard.

**Stop** Stop guard.

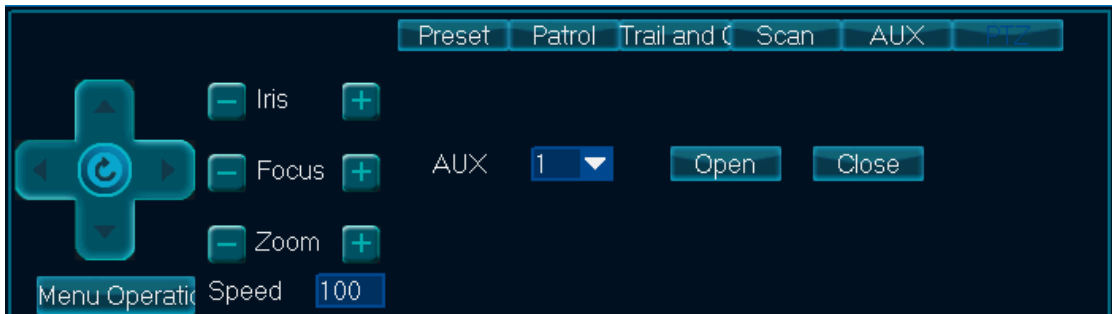
#### 4.6.4. Scan



Items	Description
Speed	Set the speed of scanning
Left	Set left limit manually with direction arrows,
Right	Set right limit manually with direction arrows,
Start Scan	Start scanning.
Stop Scan	Stop scanning
Wave Scan	Use preset various scanning style.

#### 4.6.5. AUX

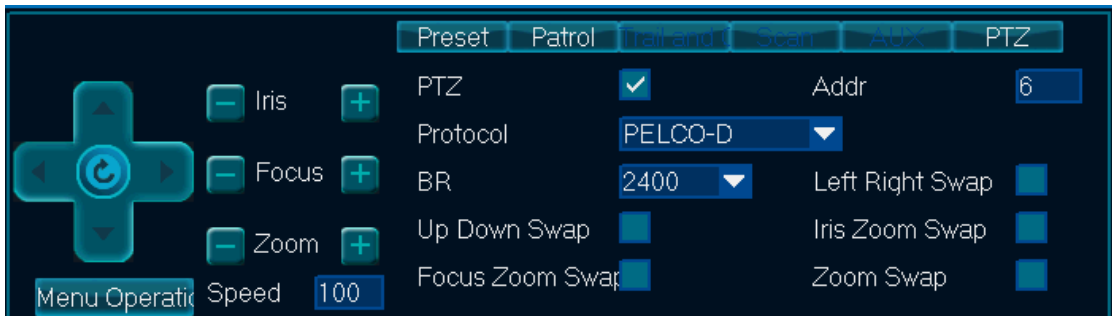
You can set assist (AUX) on/off in this page.



#### 4.6.6. PTZ

You can set PTZ protocols here.

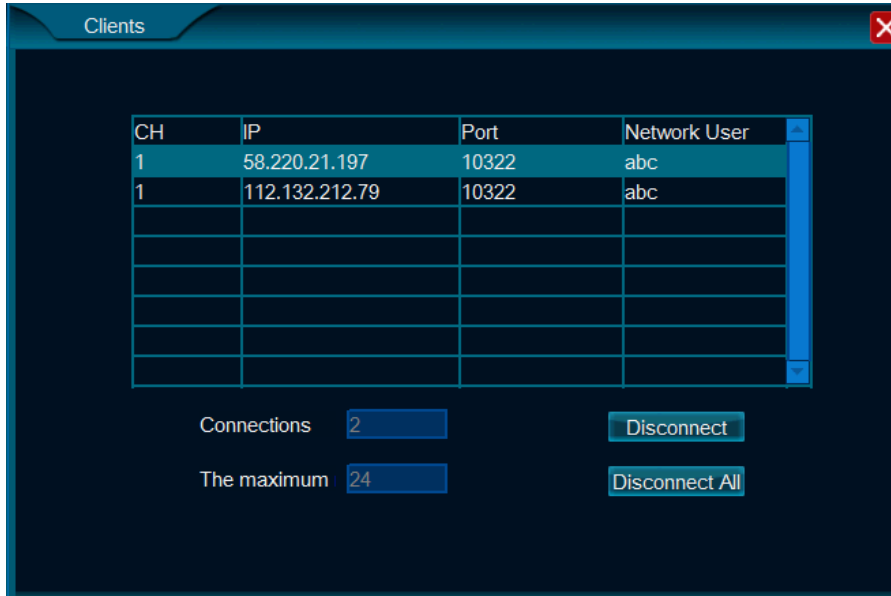
Please contact the local retailer or PTZ camera provider for proper settings.



## 4.7. Clients

If you want to connect the XVR to PC with PC client software, there is a limit on the number of connections. All remote clients connecting to this XVR can be checked on this page.

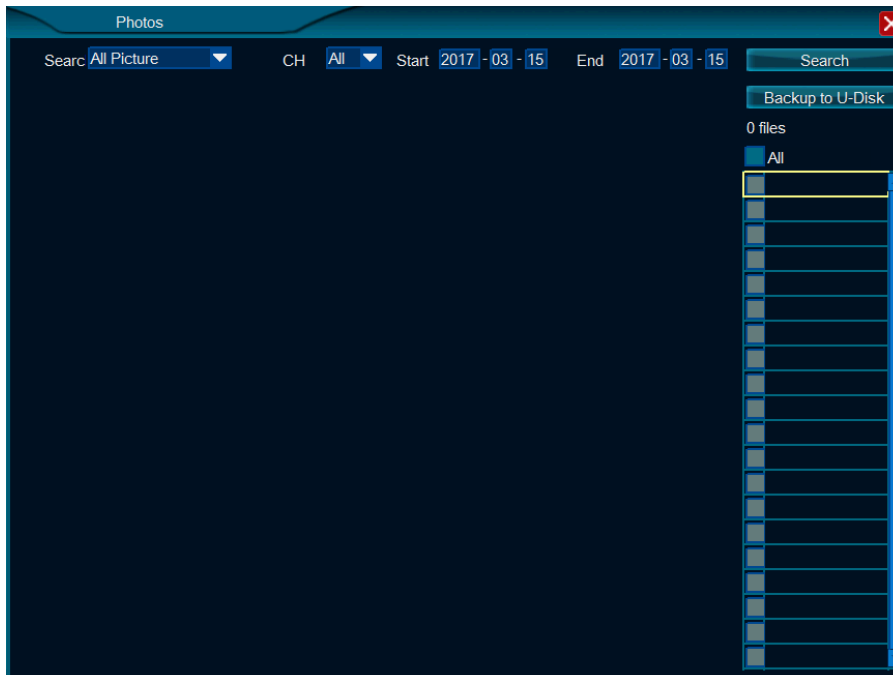
You can find how many remote connections or disconnect these connections.



## 4.8. Snapshot and photos

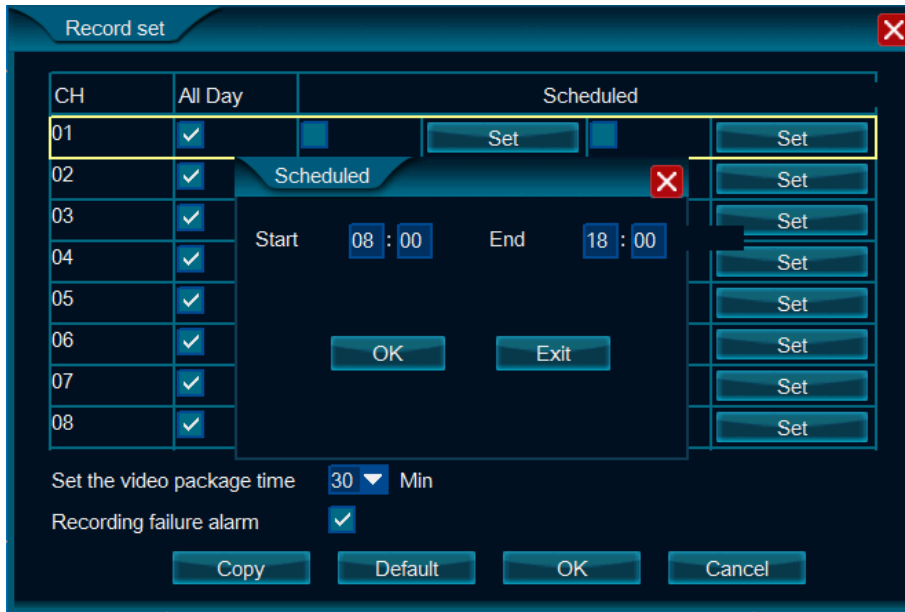
Click **Menu--snapshot**, the mouse pointer will become a camera icon, click on a channel to take a snapshot of the channel, or right click to cancel. Snapshots can be checked in **Menu-Photos**.

**Note:** Hard disk must be installed to store pictures



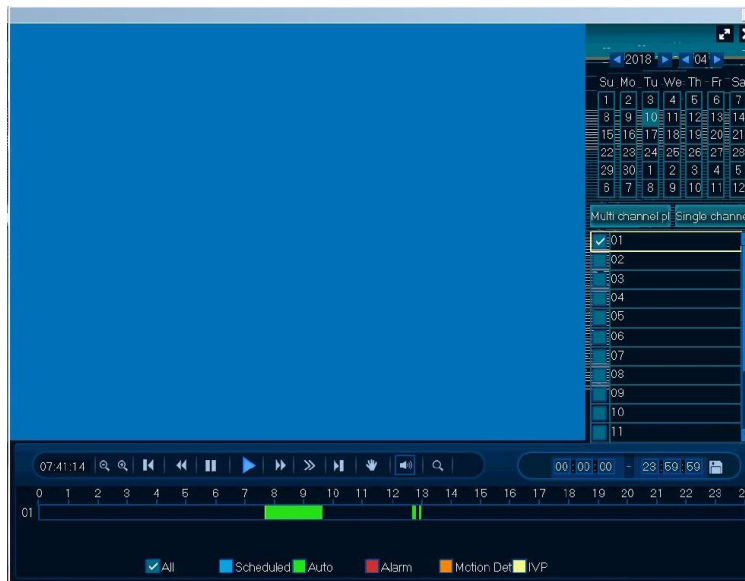
## 4.9. Record Setting

You can set all day recording or scheduled a recording on this page. Two-time periods can be set for recording.



## 4.10. Playback

Click **Menu-Playback**, then video playback window appears.



Select date and channel on the right-side panel, then click to play the video. You can playback the video with single channel or multi-channel.



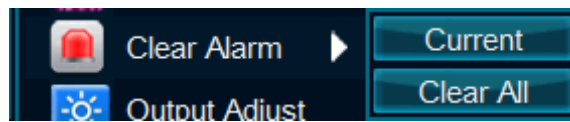
You can adjust video play with the control panel.

Items	Description
-------	-------------

	Time Graph Zoom Out and Zoom In
	Slow Backward and Slow Forward
	Rewind and Fast Forward
	Pause and Play Video
	Step Forward
	Snapshot
	Audio On/Off
	Digital Zoom
	All Recordings
	Scheduled Recordings
	Auto Recordings
	Alarm Recordings
	Motion Detection Recordings
	Intelligent Video Recordings

### 4.11. Clear Alarm

If the alarm is triggered and you want to stop the alarm action, you can use this function. Right click on the alarm channel, **Menu-Clear Alarm- Current** to stop the alarm for the channel. Select "Clear All" to stop alarms for all channels.



### 4.12. Output Adjust

You can set screen output parameters including brightness, contrast, and Chroma. There are 4 presets you can choose.



## 5. CloudSEE Remote Connection

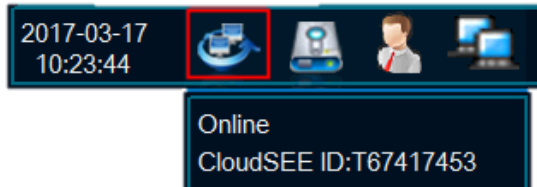
**XVR default remote connection account:**

**Username:** abc      **Password:** 123

## 5.1. Get CloudSEE ID.

Login XVR system, check the CloudSEE ID and whether the status is online, which means you can use CloudSEE network monitoring system to connect the XVR remotely. You can get CloudSEE ID with the following instructions.

- a. Move the mouse to the top middle area of the system interface, the online status and CloudSEE will pop up,



- b. **Menu - System Setup – Network- Connection**, you can find CloudSEE ID and status here.



## 5.2. Connect XVR with Client Software

All the XVRs in the LAN will automatically detect and listed in VMS-6100

To access XVR in a LAN, you can choose the following methods. Download VMS-6100 software for PC from our official website:

[http://edown.afdvr.com/other/VMS-6100\\_Setup.rar](http://edown.afdvr.com/other/VMS-6100_Setup.rar)

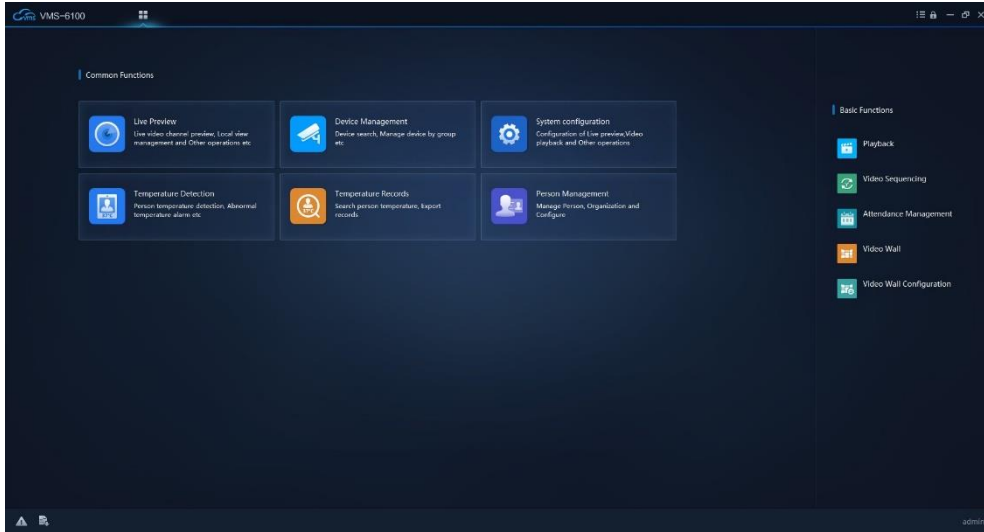
### 5.2.1. VMS-6100

VMS-6100 is a client software to access and manage IP Cameras, NVRs and XVRs.

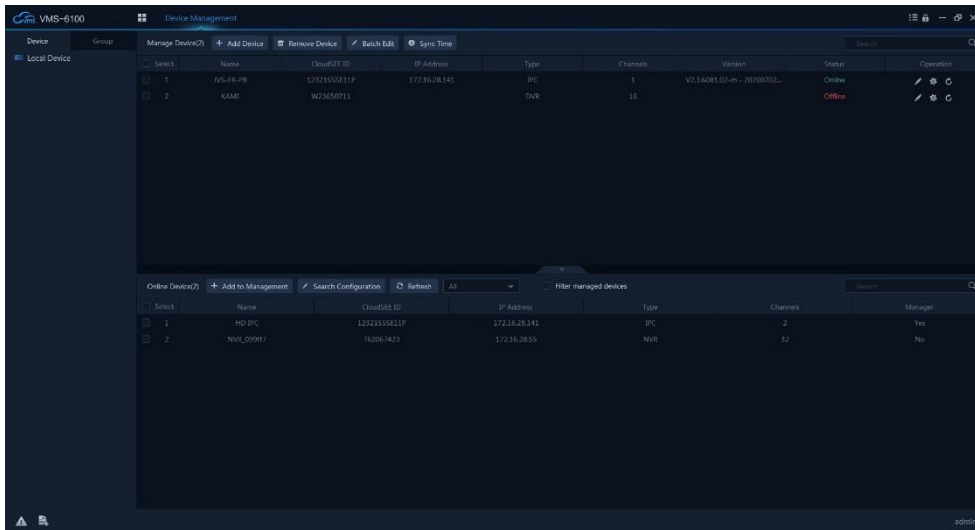


## Steps

1. Install and run VMS-6100, and create a username and password. Once created, login the software. The main view is as shown below

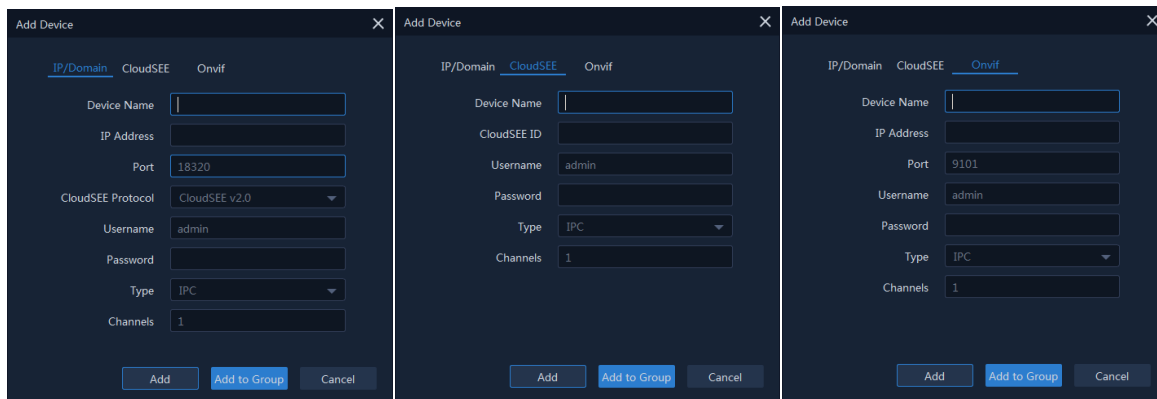


2. Click Device Management to add the device into VMS-6100. Or you can click Add to Group to add the device directly into default device group.

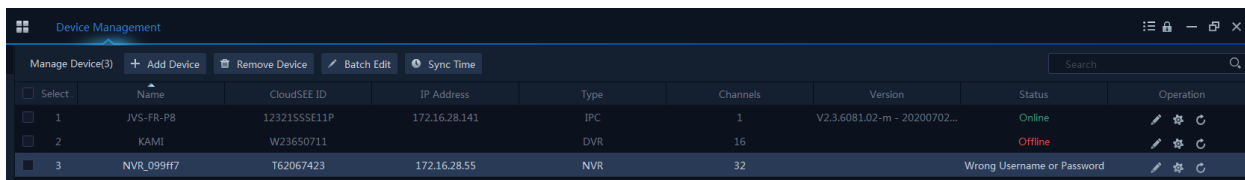



VMS will automatically search LAN devices and listed in Online Device list. Select the device you want to add and click on Add to Management to add devices into Manage Device list.

- You can add device Manually by clicking Add Device in Manage Device list. You can add devices by IP/Domain, CloudSEE ID or ONVIF Devices.

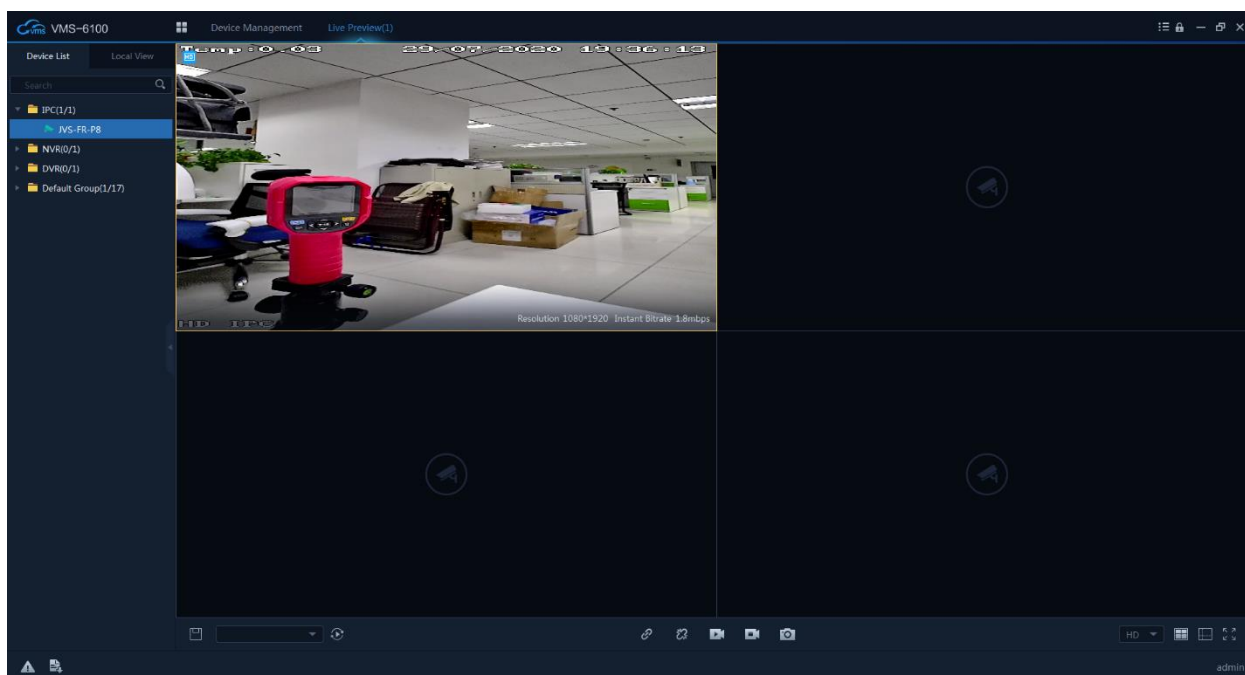


- VMS-6100 will add device with default IP Camera account (Username: admin Password: <empty password>). If you changed the password, the device will not connect and show “Wrong Username or Password/Error Code” in the Status.



Double click the device or click , and input correct Username and Password. Click OK. The camera status will become Online.

- Go to home page and click on Live Preview. Drag the device from Device list on left side to the channel. VMS-6100 will start video streaming on the live view window



## 5.2.2. CloudSEE Int'l APP

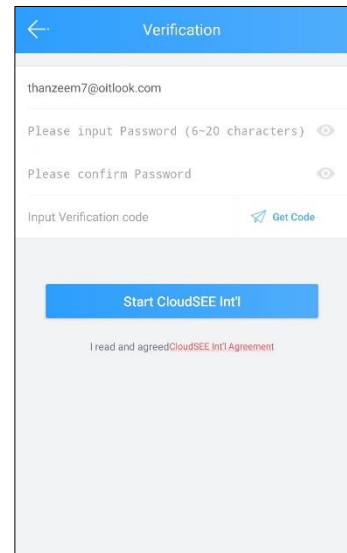
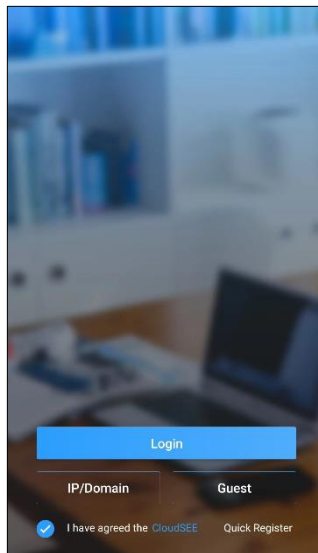
CloudSEE Int'l App, makes it possible to watch camera live view on smart phone, supports all CloudSEE products, including DVR, NVR, Network Camera, USB DVR and DVR cards.

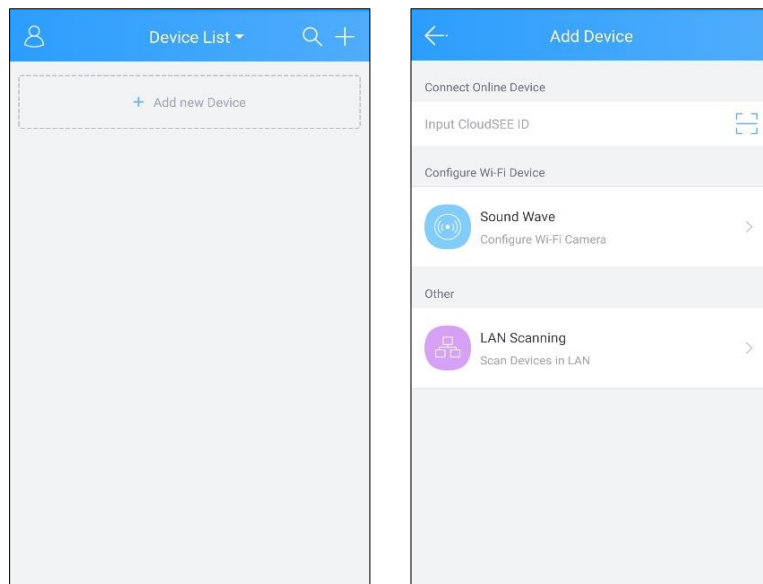
**Note:**


- The steps apply to both iOS and Android.
- You need to register a CloudSEE account before using CloudSEE service which is free. With CloudSEE service account, devices list will automatically upload and store in cloud, and when you are login CloudSEE Int'l with your account on other smart phones, you can access to all these devices without adding them again.

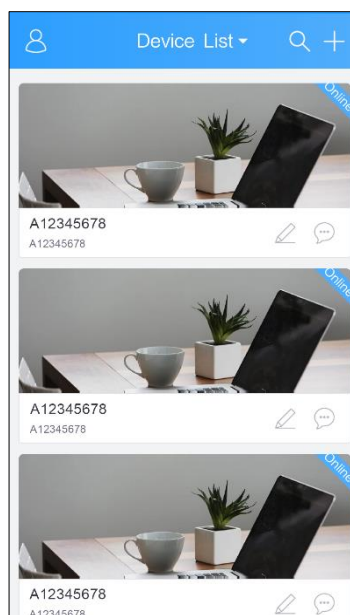
**Steps**

1. Open CloudSEE Int'l app on smart phone, login with your CloudSEE account

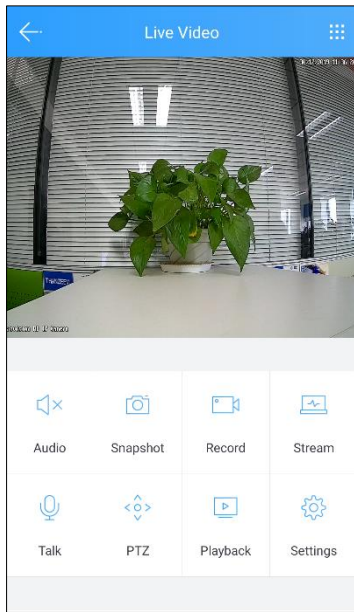




2. Tap  to Input **CloudSEE ID**
3. The camera will appear in Device List



4. Tap the device, live video of the camera will display



## 6. FAQ

**Q: I have connected the 5-IN-1 DVR with CMS on computer but I can't retrieve the remote record file or unable to playback.**

A:

- ① Please check whether DVR has enabled record function, if not, the remote retrieval will fail.
- ② Please check whether the CMS client has connected with DVR well. Make sure that the DVR was connected with CMS successfully and there is real-time video displaying.
- ③ Please check whether the record time of DVR is consistent with CMS retrieval time. If not, the remote retrieval will fail.

**2. Q: 5-IN-1 DVR is online, but I can't connect it on CMS remotely.**

A:

- ① Please check the device ID.
- ② Please check the username and password.
- ③ Please make sure the DVR internet port number is not occupied by other devices. You need to log in router management page to check, if it is occupied, please change the port number and reboot the device.
- ④ Make sure the network is good and with enough bandwidth.

**3. Q: I connected the 5-IN-1 DVR with CMS client, but the video stuck and delay?**

A:

- ① Check network bandwidth, make sure the network is good and with enough bandwidth.
- ② Check the network stream of the DVR, lower the bitrate and fps.

**4. Q: I connected the 5-IN-1 DVR with CMS client, but the system prompt that " exceed maximum connection limit?"**

A:

① Check if the DVR is connected by another client, including PC and smart phone, disconnect them and retry.

② Reboot the DVR to clean cache and try again

**5. Q: How to change user name and password ?**

A:

① Right click “right click menu/main menu→ system setup → general→ user” function

② Select the user, click edit button to input new password. Click apply to finish.

**6. Q: How to set scheduled record in DVR system?**

A:

① Click “right click menu/main menu→ record set”

② Click check-box button of channel, the scheduled record function will be enabled.

**7. Q: How to update the DVR system?**

A:

① Click “right click menu/main menu→ system setup→ system→ maintenance” function.

② Choose update mode: If the DVR has connected to Internet, you can choose HTTP update. Otherwise, choose USB to use flash disk to update (Please contact with your local retailer for update files).