Declaration:

- This manual may contain technical inaccuracies, or not in conformity with the product features and operation, or printing errors. If you meet some unsolvable problems when using it, please contact our technical support department.
- The contents of this manual will be updated according to enhancement of the product function, and we will improve and update the products description in this manual regularly, and the updated content will be added in the new version of this manual without notice.

1. Introduction

1.1 System introduction

Intelligent Surveillance System(IVSS) is the client application program designed for embedded network monitoring device, the client management software is an integrated video management platform based on a use of C/S architecture and network, through which enable the end users to centralized monitor, store, forward data, manage, and control multiple IP Cameras, DVR devices in LAN or Internet environment. And realize the functions of real-time monitoring, recording, screenshots, two-way audio intercom, data backup, search and playback, remote configuration, P.T.Z control, alarm control and motion detection, and so on.

1.2 Main functions

- With a powerful management capabilities of remote device;
- Monitor at most 128 channels, manage up to 4096 channels, also can preview at most 64 channels real-time monitoring of video, and select the preview image quality and screen display style;
- Can organize different channels of different devices to the same group to preview at the same time;
- Support two-way audio intercom, audio switch controlled;
- When preview image supports real-time screenshots, color adjustment, etc;
- Support local storage for real-time preview video and audio;
- Support screenshots and local recording
- Can display the real-time alarm state of device
- Can do P.T.Z control, support multiple protocols
- Support local and remote search and playback

- Playback support basic playback controls, screenshots, switch audio, contrast of multi-channel, and other functions
- Supports remote backup, (backup into AVI files)
- Support remotely modifying all parameters, importing and exporting data, obtaining status information, etc
- Configurable user permissions, check configuration log, operation log, alarm log and export to save
- Support alarm trigger recording, motion detection triggered recording, timing recording and manual recording
- MTP/DDNS/PPPOE dial of the device can be configured

1.3 Operation Environment

Operating System: WINDOWS XP/ WINDOWS7

CPU: Intel Pentium IV 3.0 GHz or above

Memory: 1G or more

Graphics cards: Need discrete graphics and support DirectX9.0 and older version

Sound card: Need voice monitoring, necessary for two-way audio.

1.5 Convention Description

In order to simplify the description in this manual, we do the following conventions:

Intelligent Surveillance System for short IVSS

IP Camera, DVR etc are called devices

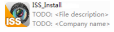
Click and single click is left click of mouse; double-click is left click of mouse; right click is right click of mouse

Some pictures are diagram, please be subject to the actual interface of client management software

2. Installation Guide

2.1 Software Installation

Please complete the installation step by step according to the prompt. The specific installation steps are as follows:

A. Insert the installation CD (support XP and WIN7 system), Or copy the IVSS install package to the PC. find the installation program, 

double click to pop-up the IVSS installation guide, click “Next”, as shown in figure 2-1:

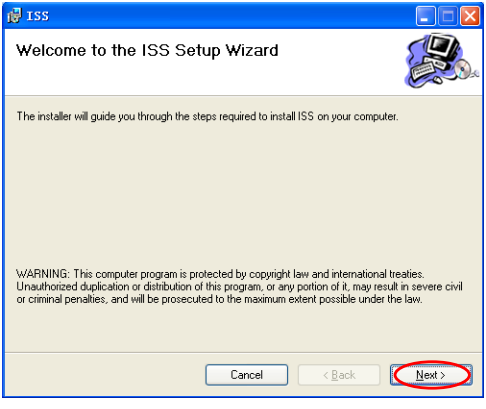


Chart 2-1 IVSS Install Wizard

B. Select the installation path and type, click “Next”, as shown in Figure 2-2.

Default installation path “C:\Program Files\IVSS\”,

Click “Browse” can change the installation path.

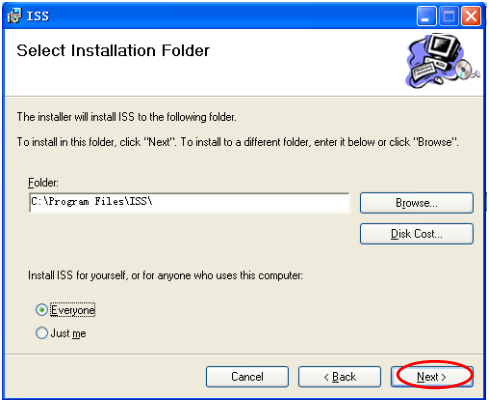


Chart 2-2 Select the installation path

C. In the pop-up window, click "Next" as shown in Figure 2-3

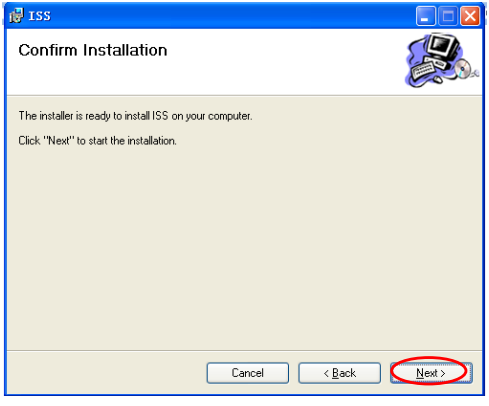


Chart 2-3Confirm Installation

D. Progress bar will be displayed in the process of installation. After the installation is completed, will pop-up a window as shown in figure 2-4, click "Close" to exit.

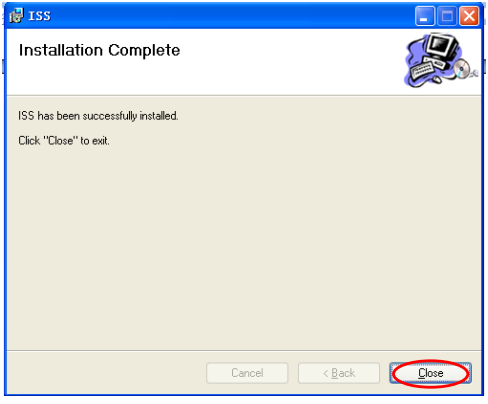


Chart2-4 Installation Complete

The PC desktop will appear IVSS Shortcuts 

double-click the shortcut to enter the user login interface.

2.2 Software uninstall

Enter the start menu →All Programs→Select IVSS→Click “Uninstall IVSS” to uninstall the software, as shown in figure 2-5

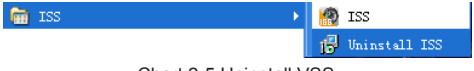


Chart 2-5 Uninstall VSS

Or enter the start menu →control panel-→- Add/delete programs →IVSS→click “Delete”. Chart2-6 Delete programs

The confirmation dialog box will pop-up, click “yes”

Progress bar will be displayed in the process of unloading process,when the IVSS client uninstall is completed, progress window disappear automatically,the IVSS shortcut does not exist in the PC desktop.

Note: If you have installed a different version of the IVSS, please Uninstall the original version, and remove its installation directory,then begin to install the new version.

2.3 Software Repair

Open the install package, double-click 

icon, it will pop-up the interface as shown in figure 2-8, click “install”.

Chart 2-8

Enter the IVSS installation guide,as shown in chart 2-9, choose “Repair IVSS” and click “Finish” to repair the program.If you select “Remove IVSS” it can remove the program.

After completion of repair, pop-up the window as shown in figure 2-10, click "Close" to exi.

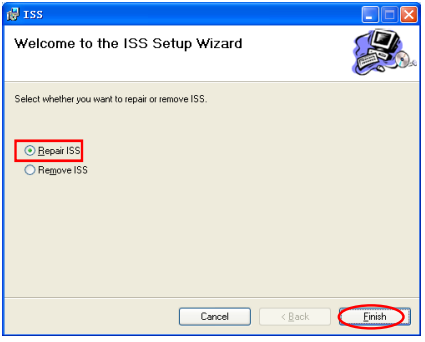


Chart 2-9

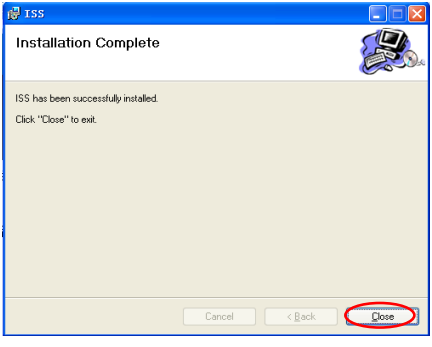


Chart 2-10

3. Operation and Configuration

3.1 User login

Login way:Double-click IVSS shortcut on the desktop or select IVSS in the start menu can run the client program, enter the user login interface, as shown in Figure 3-1

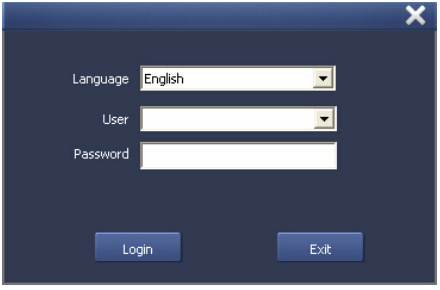


Chart 3-1 User login

Language: To select language of the IVSS system, including simplified Chinese and English;

Users: Input the login user name, the default user name of the administrator is admin;

Password: Input the password, the default password is empty when the administrator login.

3.2 Control Panel

3.2.1 Interface Introduction

You will enter the control panel when you login the IVSS successfully, as shown in figure 3-2.

IVSS Menu

The IVSS Menu includes all function modules of the software: system, view, retrieval, tools, and help.

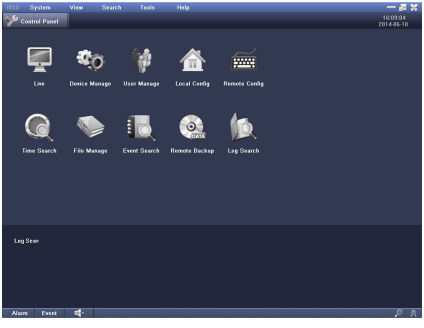


Chart 3-2 Control Panel interface

System button

Minimize button

Maximize button

Close button

IVSS tag

- After you select any function modules in the menu, it will be added to the tag bar in the form of task tags, the opened task tags will be placed one by one in turn which is convenient for user to open and switch multiple tasks.
- After login and default open the” control panel" label, it will be always in the first tag.
- When you open more than five tasks, the right side of the tag bar will appear button, click this button to select all the open task tags in the drop-down menu.
- When the mouse point to the top right corner of any tag, It will appear button,click the button to close the corresponding tag.

Function Area

The user can enter basic system function and configuration of IVSS through the control panel. Control panel includes ten commonly used basic functions such as live, time search, file management, event search, remote backup and so on. Click the button to enter the corresponding function task, no need to select through the menu.

Alarm and event information list area

3.2.2 Alarm and Event

A. Click “Alarm” button, pop-up the alarm information list, as shown in figure 3-3.

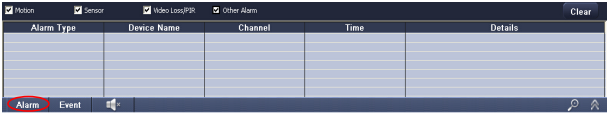


Figure 3-3 Alarm Information list

The user can choose the alarm type when necessary, including motion detection, sensor alarm, video loss and other alarm.

Function of other buttons in the interface as shown in figure 3.1

Button	Fuction
	Audio switch, it can set the volume.
	The current list shows little alarm information, click the button to switch to big list display to show more alarm information, click the button again to hide the list.
	When a small list display, click this button to hide the list, click again to pop up the small list; When a big list display, click the button to restore small list display, click again to hide the list.

B.Click “Event” button to pop-up the event information list, as shown in figure 3-5:

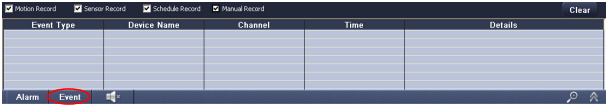


Figure 3-5 Event information list

C.The event shows the recording information of the device end, the users can select the recording mode when necessary, including mobile alarm recording, sensor alarm recording, timing recording and manual recording.

Note: In the other functional tasks, the layout and function of the system interface menu, button, tags, alarm events information list area is the same, and we will not repeat the description of the same part.

3.3 Device Management

Click “Device Management”, enter into the device management interface, as shown in figure 3-7.

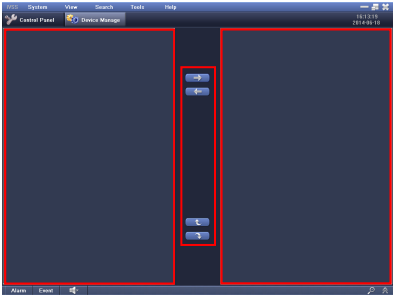


Chart 3-7 Device Management Interface

Marked one, two, three, in the above areas respectively

Device List Display Area

Configuration Button

Add channel to the grouping
Remove channel from the grouping.
Import the device information
Export the device information

The software supports importing and exporting device information. Click "Information Import" button, select the configuration files, and import the device information into the IVSS system. Click "Information Export" button, choose the path where you want to save the files, then the device information will be saved as local file.

Grouping Display Area

3.3.1 Add area and device

Prompt: To use the software, you need to add device at first.

Step one: Right click in the device list display area, select “add area”, it will pop-up a window, as shown in figure 3-8

Figure 3-8

Step two: Input the area name that you want to set, for example, “A city monitoring”, click “OK” button and this area will be added in the device list.

Step three: Right click “A city monitoring”, select “add device” ,it will pop-up the window of adding device , as shown in figure 3-9

Step four: Input the device information that you want to add, press OK button and it will be added in the A city monitoring

area. Press “cancel” button will give up adding. The meaning of each option are shown in chart 3-2

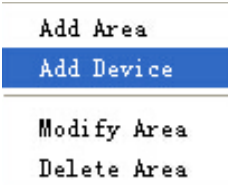


Chart 3-9

Prompt:An area can add multiple devices.

Parameter	Meaning
Device Name	The name of added device, you can customize
IP address	The IP address of the device
Data Port	The device port number
User/Password	User name and password of device
Channel number	The channel number of the device, please fill in according to the actual situation
Area	The area display of the device; gray color means disabled, can not input

Chart 3-2

Step Five: users can also add device by searching the devices. Click "search device" button in add device window, the system

can search online device automatically, the searched device will be displayed in the list, shown in figure 3-10. Choose the device you want to add, click the OK button then it will go back to the add device interface, and input device name, user information and so on, clicking OK button can add the device to the area.

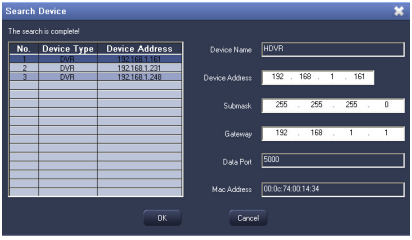


Chart 3-10

Prompt: Click  in front of the area name or device name, or double-click the name expand the list of this class, click  or double-click the name again to fold the list.

3.3.2 Area Setting

Add Sub Area: Right-click the area name in the device list, select "add area", can add the lower area of this area; similarly, the lower area can also add sub area, easy to construct hierarchical control system.

Modify Area: Right-click the area name, select "Modify area", you can modify the area name, the area of the same level can not have the same name.

Delete Area: Right-click the area name, and choose "delete area", can remove this area.

Prompt: When devices in the area are in preview, you can not delete the area and device.

3.3.3 Device Setting

Modify Device: Right-click the device name, select "Modify Device", you can modify the device information.

Delete Device: Right-click the device name, choose "delete device", can remove the device.

Prompt: When the channels of the device are in preview, you can not do operations of modification and deletion to the device and channels the device includes.

3.3.4 Modify Channel

Right-click the channel name under the device list, select "Modify Channel ", you can modify the channel name; double-click the channel name can also open the window of modify channel.

Prompt: When the channel is in preview or the channels of the device that this channel belongs to are in preview, the operation of modification can not be done to the channel.

3.3.5 Group Configuration

Grouping function can customize the group management for the added device channels.

Step one: Right-click grouping display area, select "Add Group", the add group window will pop-up, as shown in figure 3-11:

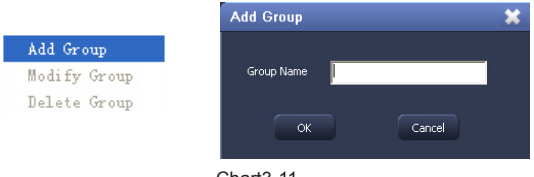


Chart3-11

Step two: Input the group name in the add group window, click "ok" button and the group will be added to the group display.
Step three: Right-click the group display area or group name, select "add group", you can add other new grouping.

Right-click the group name, choose "modify group", can modify the group name.

Right-click the group name, choose "delete group", can delete the group.

3.3.6 Group Channel Configuration

After successfully adding groups, channels of the device list can be added to the selected group to customize configuration for the group channel.

Add Channel: Select a channel in the device list, click  button to add the channel to the selected group , the group channel will display name in the form of “Device Name :Channel Name" as shown in figure 3-12:

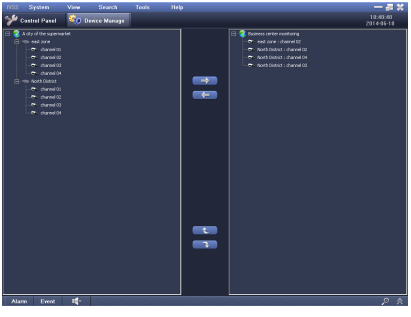


Figure 3-12

Delete Channel: Select a channel in the group list, click button to delete the channel from the group, or right click the channel name to delete, select "delete channel", you can remove it from the group.

Note: The same channel cannot be added repeatedly to one group, but one channel can be added simultaneously to different groups, as shown in figure 3-13.

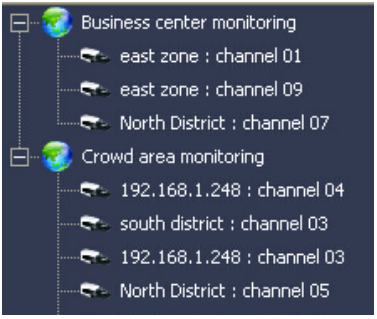


Figure 3-13

Prompt: The total number of channels which IVSS supports is 4096, each group can add channels that the device has. Only channels added in the device can be placed into the group, meaning a group can be assigned up to 4096 channels.

Prompt: When a channel in the group is in preview, you can not do operations of addition, modification and deletion to the channels in or under the group.

3.6 User Management

Click “Configuration”→“User Management”, enter into the user management interface, as shown in figure 3-40:

On the left side of the interface lists all the users that can log on the IVSS to operate, on the right side show the users’ permissions. Ordinary users can only change their own passwords, only the administrator can add, edit and delete users, and set permissions for ordinary users.

Click the “add user“ button it will pop up the window, input the user name and password, click the OK button, add the ordinary user; Click "cancel" button to exit the current interface.

Click the “edit user” button, if select the administrator, you can modify its user name and password; If select other users, you can only set an empty password but the user name can not be modified.

Select a user in the user list, click the “Delete User” button, click “OK” button to delete the user.

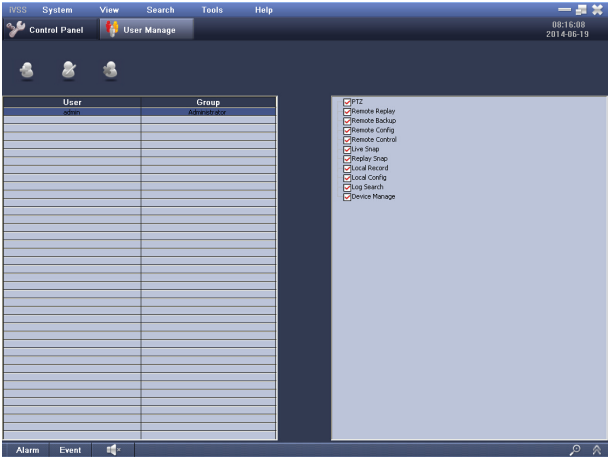


Chart 3-40 User Management Interface

Instruction: The administrator can not be deleted.

Prompt: The account added in "Remote Configuration" is an account that can login the device to operate, the user added in "User Management" is a user that can login the IVSS to operate.

3.4 Local configuration

Click the “local configuration”, enter into the local configuration interface. As shown in the Figure 3-14:

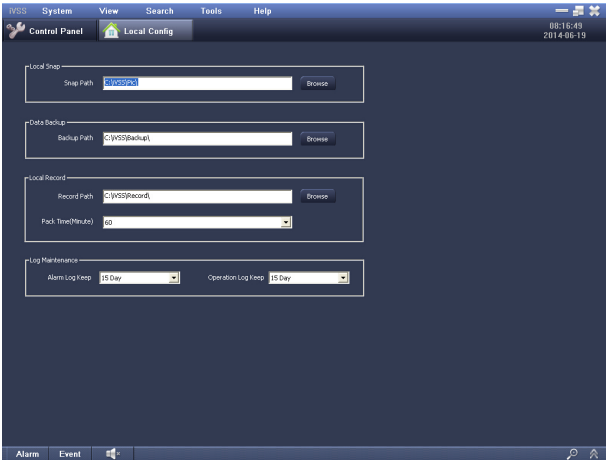


Figure 3-14 Local Configuration Interface

Under the interface, the user can configure the local screenshots, data backup and save path of local video, and click "browse" button to change the save path, and you can also set packaging time of local video, save time of alarm log and operation log.

3.5 Remote Configuration

Click “Remote Configuration” and enter into the remote configuration interface.

Double-click the device which needs to be configured in the device list. After the system successfully read the device configuration, you can do related configuration. Remote configuration will be subject to specific product, take the remote configuration of DVR as an example, as shown in figure 3-15:

Prompt: A user that has permissions to operate remote

configuration, when double-click the device can enter the main interface of remote configuration, otherwise it will prompt no operating permissions.

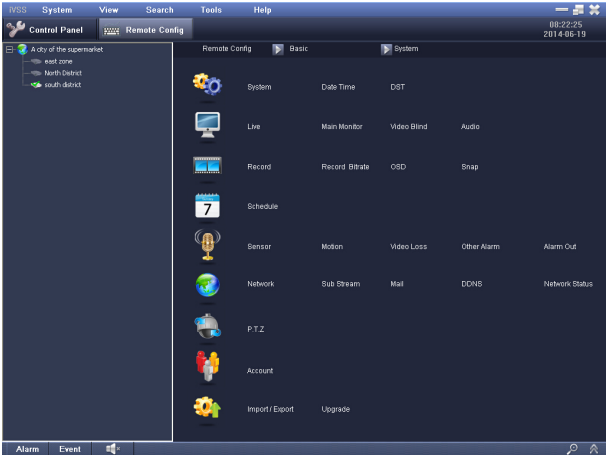


Figure 3-15 Remote Configuration Interface

The interface lists all the operation items of remote configuration, and the user can directly click into the relevant configuration as needed.

Users can also click the button ▶ of Remote Config ▶ Basic ▶ System to select the menu and sub menu of the remote configuration management, and click "remote management" on the left side to return to the interface of figure 3-15.

Remote configuration management includes 9 sub menus: system, the scene, recording configuration, recording schedule, alarm, network configuration, P.T.Z, account management and advanced configuration.

3.5.1 Basic Configuration

Basic configuration includes three sub menus: system, date and time, daylight saving time.

3.5.1.1 System

Enter Remote Configuration→Basic Configuration →System，Open the system configuration interface and the user can set device name, device serial number, video format, output, etc. As shown in figure 3-16

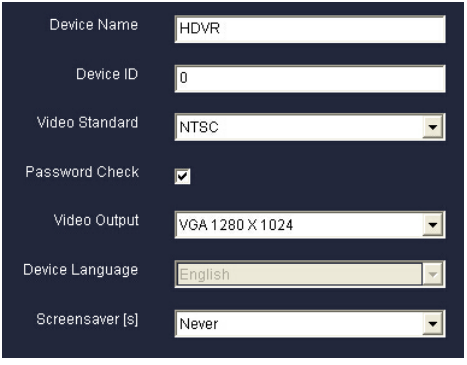


Figure 3-16 System Configuration

Device name / serial number: display system name / serial number

Video Format: Two modes: PAL and NTSC

Permissions Check: Enable this item indicates that the device needs to enter a user name and password for verification, and have the corresponding permissions before they can do the corresponding operations;

Output: live display interface resolution and menu output device, Optional range: CVBS, VGA 800 * 600, VGA 1024 * 768, VGA 1280 * 1024 and HDMI;

Device Language: Set the menu language. If you have selected before login, it would be temporarily disable here

Screen Saver [second]: The user can set the time interval of the screen saver (never, 30s, 60s, 180s, 300s), if no operation is done during the set interval, the device will automatically exit the OSD menu.

Click the "default" button, restore default settings; click "save" button, to save the above settings.

If you change a setting but not save, when leaving the page, it will pop up a warning dialog box, as shown in figure 3-17 on the right:

Click "OK" button to save the configuration above

Click the "Cancel" button to exit the current interface

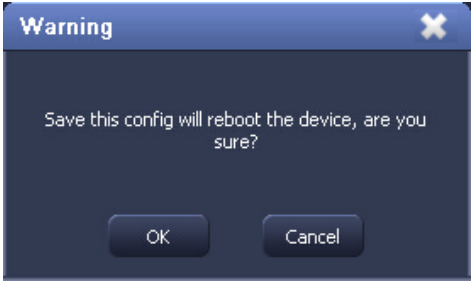


figure 3-17

3.5.1.2 Date and time

Enter the remote configuration→basic configuration→date and time, Open the time configuration interface, the user can set the date format, time format and time zone. As shown in Figure 3-18

Users can tick and choose the "keep synchronized with network time server" to correct the time, Network time server can be set; You can also tick and choose “Manual Setup" to manually adjust the device time, and click "save now" button to save the device time manually set.

Click the "Default" button to restore the default settings; Click the "Save" button to save the above settings.

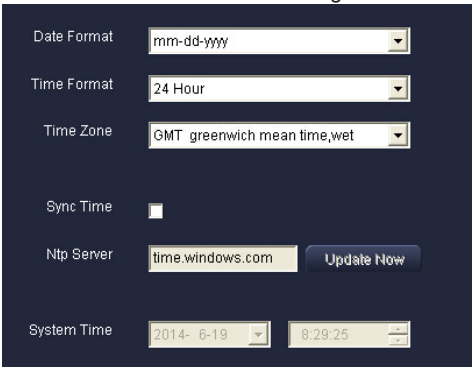


Figure 3-18 Date and Time Configuration

3.5.1.3 Daylight Saving Time

Enter "Configuration" -Remote Configuration -Basic Configuration –Daylight Saving Time, open the daylight saving time configuration interface. As shown in Figure 3-19：

Users can tick and choose "Enable Daylight Saving Time" to use this function, And set the time difference (one hour, two hours), mode (week mode, date mode) and the beginning and ending time.

Click the "Default" button to restore the default settings; Click the "Save" button to save the above settings。

3.5.2 Live Configuration

Live configuration includes four submenus: live, the main output, privacy mask and audio

3.5.2.1 Live

Enter the "configuration"-remote configuration - live configuration –

live, Open the live configuration interface. As shown in Figure 3-20:

Figure 3-19 daylight saving time Configuration

Channel	Channel Name	Show Name
1	CAMERA01	☑
2	CAMERA02	☑
3	CAMERA03	☑
4	CAMERA04	☑

Figure 3-20 Live Configuration

The user can click the channel name to change name, by selecting the corresponding option, set whether to display the channel name and recording status in the preview.

Click the "Default" button to restore the default settings; Click the "Save" button to save the above settings.

3.5.2.2 Main output

Enter the remote configuration -live -main output, open the main output configuration interface. as shown in Figure3-21

Select the screen display mode (The selection of display mode

is related to the number of channels connected to the device), Set channel combination for the current screen, when multiple display, click on the button < > to set the channel combination for the previous / next switching screen; Set dwell time, dwell time is a time interval for one screen switches to the next screen.

Figure 3-21 Main Output Configuration

Click the "Default" button to restore the default settings, Click the "Save" button to save the above settings.

3.5.2.3 Auxiliary Output

Enter the remote configuration -live configuration - auxiliary output, Open the auxiliary output configuration interface. As shown in figure 3-22:

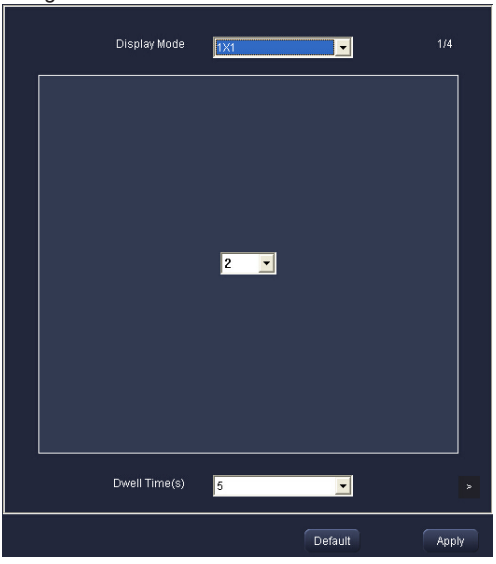


Figure 3-22 Auxiliary Output Configuration

Select the split display mode (Selection of the display mode is related to the number of channels connected to the device), Set channel combination for the current screen, when multiple display, click on the button « » to set the channel combination for the previous / next switching screen; Set dwell time, dwell time is a time interval for one screen switches to the next screen.

Click the "Default" button to restore the default settings: Click

the "Save" button to save the above settings.

3.5.2.4 Audio

Enter the remote configuration - live configuration – audio, Open the audio configuration interface. The user can set the volume of each channel.

Click the "Default" button to restore the default settings; Click the "Save" button to save the above settings.

3.5.3 Recording Configuration

The recording configuration includes three sub menus: the basic configuration, video stream and screenshot.

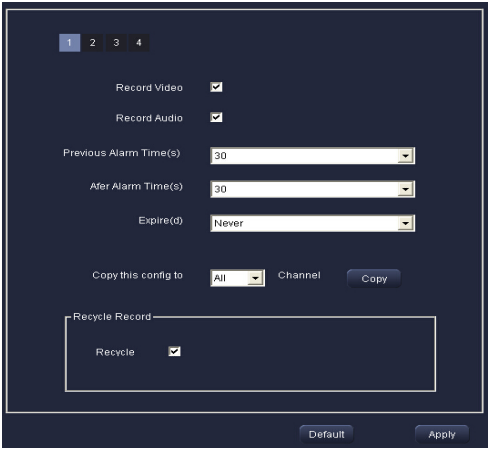


Figure 3-23 Basic recording configuration

3.5.3.1 The basic configuration

Step one: Enter the "configuration" →remote configuration →recording configuration→basic configuration, open basic configuration interface. As shown in Figure 3-23:

Choose whether to enable recording and audio of each channel. Digital key on the top left of the interface indicates the device channel number, which is related to model of the specific device connected. This picture is taking 4-ch device as an example.

Pre-alarm recording time [second]: recording time before the event occurs, such as motion detection, sensor alarm event, optional time: 5/10/15/20/25/30 seconds;

After –alarm recording time [second]: the delay time of recording after alarm, optional time: 10/15/20/30/60/120/180/300 seconds;

Expiration time [days]: the valid time of the video saved, optional time is: Never / 1 to 60 days. If exceeding the time set by the user, the video file will be automatically deleted.

Users can copy the recording parameters of the specific channel to any other channel, select "Apply Settings to" to the channels need to set the same parameters or select "all", click "Copy" button is OK.

Click the "Default" button to restore the default settings; click "Save" button to save the above settings.

3.5.3.2 Video Stream

Enter the "Configuration"→remote configuration→recording configuration→video stream, open video stream configuration interface. As shown in Figure 3-24:

Select resolution, frame rate, encode , video quality and bit rate. Digital key in the top left of the interface indicates that the device channel number, which is related with the specific model of device connected.

The meaning of each option are shown in Table 3-3

Parameter	meaning
Resolution	Selection range: synchronize with configuration of the device.
video quality	The higher the quality is, the clearer the recording image is. default is higher .

Encode	Support variable bit rate and fixed stream
max bit rate	Selection range: synchronize with configuration of the device
Frame Rate	Selection range :1-30 (NTSC) ,1-25 (PAL) The specific resource of resolution and frame rate is determined by the parameter specification of specific model

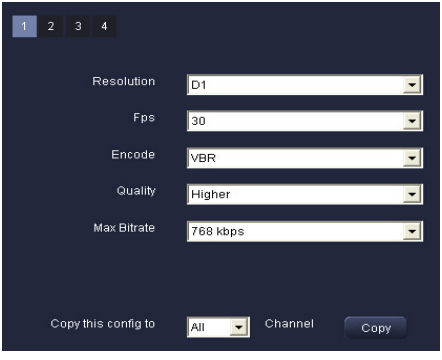


Figure 3-24 Video Stream Configuration

Users can copy the video stream parameters of the specific channel to any other channel, select "Apply Settings to" to the channels need to set the same parameters or select "all", click "Copy" button is OK.

Click "Default" button to restore the default settings; click "Save" button to save the above settings.

Note: If the set value of the frame rate exceeds the maximum resource of the device, the frame rate of the channel will adjust automatically.

3.5.3.3 Screenshot

Enter the remote configuration → recording configuration → screenshot. open the screenshot configuration interface. As shown in figure 3-25:

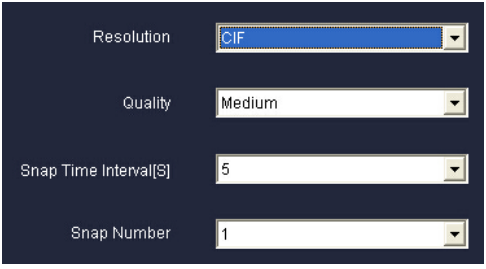


Figure 3-25 Screenshot Configuration

In this interface, the user can set the rsolution and picture quality of the captured images, set the time interval and capture number of screenshot.

Click "Default" button to restore the default settings; click "Save" button. to save the above settings.

3.5.4 Recording Schedule

3.5.4.1 Timing recording

Step one: enter the remote configuration → recording schedule, open the recording schedule configuration interface. As shown in figure 3-26:

The longitudinal rows represent seven days of a week, and the horizontal rows represent 24 hours a day.

Step two: Select channels configured timing recording ;click , press and drag the left mouse button to add the recording time period in the grid area ;click , press and drag the left mouse button to delete the recording time period added in grid area. Blue color indicates the selected area, light grey indicates the not selected area.

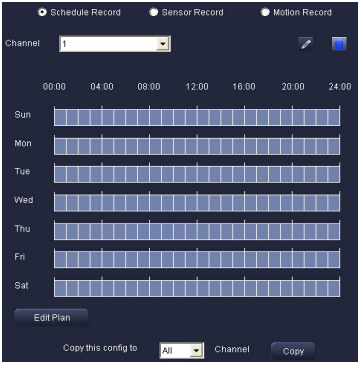


Figure 3-26 Timing recording schedule configuration

Step three: Click "Edit week schedule" button, the system will pop-up the edit week schedule window, then the user can edit the accurate recording schedule.

Figure 3-28 Edit week schedule

Select the date, for example "Tuesday", as shown in Figure 3-28.

Click the “Add” button, the system will pop-up add schedule window, set the start and end time of the recording schedule of the day, click "OK" button to add the schedule.

Note: The time period of the schedule you are adding can not cross with the existing time period, otherwise need to re-input.

Choose a schedule in the week schedule list, click the modify button  , can pop up the edit week schedule window, in which you can modify the start and end time of the schedule, press “OK” button to confirm the changes.

Choose a schedule in the week schedule list, click the delete button  can delete the schedule.

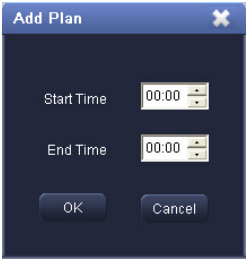


Figure 3-29

Click "OK" button to save the week schedule settings, click "Cancel" button to return to the recording schedule interface.

Step Four: The user can copy the timing recording schedule of specified date to other dates, select "Apply Settings to" to the dates needing to set the same schedule or "All", click "Copy" button is OK.

Step Five: Click the "Default" button to restore the default settings; click the "Save" button to save the above settings.

3.5.4.2 Sensor alarm recording

Change the type of recording schedule configuration to sensor alarm recording, the configuration steps is the same to that of timing recording, please refer to 3.5.4.1.timing recording.

3.5.4.3 Motion detection alarm recording

Change the type of recording schedule configuration to motion detection alarm recording, the configuration steps is the same to that of timing recording, please refer to 3.5.4.1.timing recording.

Note: The default schedule of sensor alarm recording and motion alarm recording is all selected, meaning the whole schedule set interface is blue.

3.5.5 Alarm configuration

Alarm configuration includes five sub menus: sensor alarm, motion detection alarm, video loss alarm, other alarms and alarm output.

3.5.5.1 Sensor alarm

Enter the remote configuration -alarm configuration - sensor alarm, open the sensor alarm configuration interface. As shown in figure 3-30:

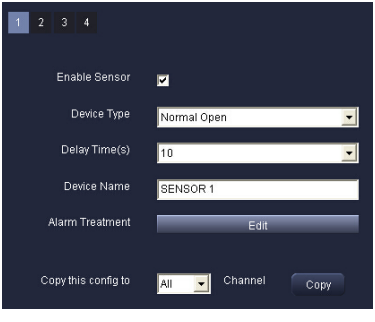


Figure 3-30 Sensor alarm configuration

Numeric keypad on the top left interface indicates that the device channel number, which is related with the specific device model, this chart takes 8 –CH device as an example.

Step one: Enable sensor alarm of the channel; Select alarm device type according to the alarm trigger type: normally open and normally closed; select alarm delay time: 5/10/20/30/60/120 seconds; alarm device names can be customized.

Step two: click the “set” button of alarm processing, enter the alarm processing setting interface.

Buzzer alarm: After selecting the item, when an alarm is triggered the buzzer beeps.

Maximum screen alarm: Pop-up the big screen alarm when an alarm is triggered. Channels popping up the big screen alarm can be set.

Send email: After selecting this item, when an alarm is triggered, the device will send the related alarm-triggered information, such as alarm events, screen capture, device name, device ID, etc to the user-specified mailbox.

Trigger alarm: After selecting this item, it will trigger an alarm at a specified alarm output.

Trigger recording: After selecting this item, when an alarm is triggered in the corresponding channel, the device will start alarm recording for the linkage channel.

Linkage alarm: Set the linkage PTZ action type for the linkage alarm (not trigger / preset / cruise line / track). Click the "back" button to return to the sensor alarm configuration interface.

Step three: the user can copy sensor alarm configuration parameters of specific channel to other channels, select "Apply Settings to" to set the same parameters for the channels that need or "All", click "Copy" button is OK.

Step four: click the "default" button, the system will restore default settings; click "save" button to save the above settings.

Trigger Screenshot: Select the channel, when an alarm is triggered in the corresponding channel the device will capture

the images of the linkage channel. If you select "send email" option, the device will send the captured images to a user-specified mailbox.

3.5.5.2 Motion Detection Alarm

Enter the remote configuration - alarm configuration - motion detection alarm, and open the motion detection alarm configuration interface. As shown in figure 3-31:

Figure 3-31 Motion Detection Alarm Configuration

The numeric key on top left of interface indicates the device channel number, which is related with the specific device model. This chart takes 8-CH device as an example.

Step one: enable motion detection alarm of the channel; choose the alarm delay time: 5/10/20/30/60/120 seconds.

Step two: click the "Set" button of the alarm processing, enter the alarm processing setting interface, the setting steps is the same to that of sensor alarm processing, please refer to 3.5.5.1 sensor alarm step 2.

Step three: click the "Set" button of area setting, enter the area

setting interface of motion detection. Users can drag the slider to adjust the value of the sensitivity, the bigger the sensitivity value is, the higher the sensitivity is.

As the sensitivity is affected by color and time (day or night) and so on, the user should adjust the sensitivity value according to the actual situation.

Click the “Add”  button, press and drag the left mouse button can set motion detection area, pale yellow coverage area is the selected detection area; click the “Delete”  button, press and drag the left mouse button can delete motion detection area; click the "Clear" button to clear all the detection area, click the "Save" button to save the detection area setting, click the "Back" button to return to the previous menu.

Step four: User can copy motion detection alarm configuration parameters of the specific channel to other channels, select "Apply Settings to" to set the same parameters for the channels that need or "All", click "Copy" button is OK.

Step five: Click "Default" button to restore default settings of the system; click the "Save" button to save the above settings.

3.5.5.3 Video loss alarm

Enter the remote configuration - alarm configuration -video loss alarm, open the video loss alarm configuration interface. The numeric key on top left of the interface indicates that the device channel number, which is related with the specific device model, other setup steps is similar to that of sensor alarm, please refer to 3.5.5.1 sensor alarm step 2 to 4.

3.5.5.4 Other alarm

Enter the remote configuration -alarm configuration - other alarm, open the other alarm configuration interface. As shown in figure 3-32:

Step One: Select the type of alarm to set audio alarm, mail and trigger alarm, when a selected alarm occurs, it can trigger relative alarms.

In the drop-down box of the alarm type , select "disk full", then

set "disk size" capacity value, when the disk space is less than the set capacity value, the device side will display relative prompt message.

Select "network address conflict", in the same network segment, when the IP of device and IP of other network device conflict, if have set the sound alarm or trigger alarm, it will issue the corresponding alarm.

Select "Network disconnected" ,when the network connection is lost, if have set sound alarm or trigger alarm, it will automatically issue sound or give corresponding alarm output to issue alarm prompt.

Step two: click the "default" button to restore default settings; click "save" button to save the above settings.

Figure 3-32 other alarm configuration

3.5.5.5 Alarm output

Enter the remote configuration - alarm configuration -alarm output, open the alarm output configuration interface. As shown in figure 3-33:

Step One: The user can customize the name of the alarm output, select the alarm output delay time, and this delay time is the duration time of the alarm output. The number of alarm output is determined by the specific device model.

Step two: The alarm output parameters of all channels can be set the same, select "All" to do corresponding setting, that is OK.
Step three: Select "Sound Alarm" switch and the delay time for the sound alarm, it will trigger sound alarm at the specified alarm output
Step four: Click "Default" button to restore the default settings; click the "Save" button to save the above settings.

Figure 3-33 alarm output configuration

3.5.6 Network Configuration

Network configuration includes five sub menus: basic network configuration, sub-stream, email configuration, dynamic domain configuration and network status.

3.5.6.1 Network Basic Configuration

Enter remote configuration - network configuration -network basic configuration, open the basic configuration interface. As shown in Figure 3-34

User can set the HTTP port and the server port, after select "enable dynamic network address" switch, the device will automatically obtain IP address, subnet mask, and the gateway address etc. Select "use PPPOE or not", the user must enter a valid PPPOE account and password (provided by ISP).

Click the "Default" button to restore the default settings; click the "Save" button to save the above settings.

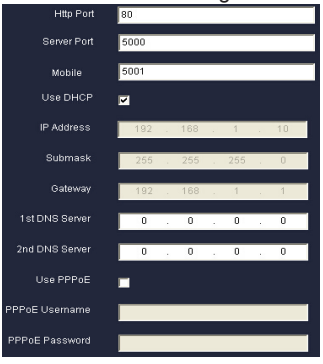


Figure 3-34 Network Basic Configuration

3.5.6.2 Sub-stream

Enter the remote configuration -network configuration - sub stream, to open sub stream configuration interface. As shown in figure 3-35:

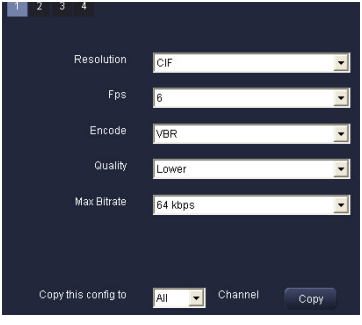


Figure 3-35 Sub-stream configuration

Numeric key on the top left of the interface indicates that the device channel number, which is related with the specific device model,

Parameter	Implication
Resolution	Support CIF
Frame Rate	Selection range: synchronization with the configured device, including N system and P system. The total resource of resolution and frame rate is determined by parameter specification of specific device model.
Encode	Fixed rate and variable bit rate encoding.
Image quality	Image quality of client. The higher the quality is, the clearer the image is. The default is higher.
max bit rate	Selection range: synchronization with the configured device.

User can copy the sub-stream configuration parameters of specific channel to other channels, select "Apply Settings to" to set the same parameters for the channels that need or "All", click "Copy" button is OK.

Click the "default" button to restore default settings; click "save" button to save the above settings.

3.5.6.3 DDNS configuration

Enter the remote configuration - network configuration -DDNS configuration, open DDNS configuration interface. As shown in figure 3-36:

Select "enable DDNS", choose the update cycle and DDNS server address, and enter the DDNS account and password. The options of the DDNS server address are not the same for different types of device.

Click the "Default" button to restore the default settings; click the "Save" button to save the above settings.

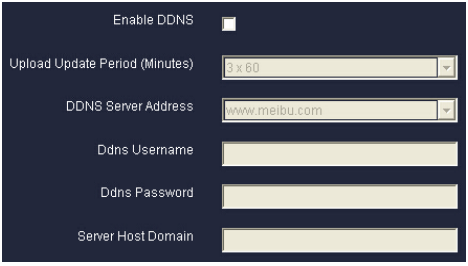


Figure 3-36 DDNS configuration

3.5.6.4 Mail Configuration

Enter the remote configuration -network configuration - mail configuration, open the mail configuration interface. As shown in figure 3-37:

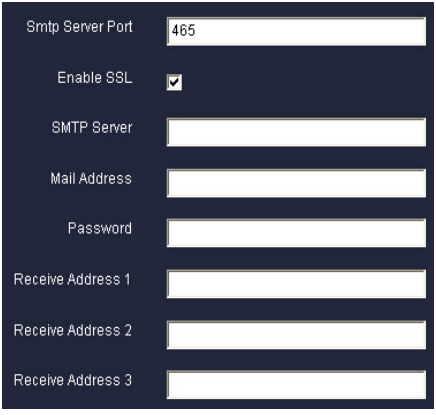


Figure 3-37 mail con figuration

Mail server port: port number of the SMTP server, the default value is 25.

Enable SSL check: Selecting this item, the user can set the mailbox server according to the actual need (such as Gmail).

Note: Enabling SSL check, port need change to 465 port and so on.

The sending server address / sending e-mail address / account and password:Sender's server address / email address / password.

For example: The server address is smtp.@gmail.com , the sending e-mail address is mailset@gmail.com.

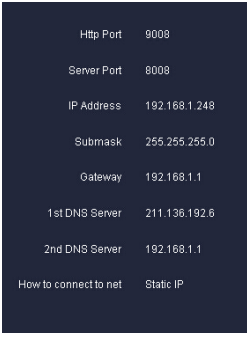
Receive address: Recipient's e-mail address. For example: mailset@gmail.com. The user can enter no more than three different email addresses

Click the "Test" button to verify mailbox.

Click the "default" button to restore default settings; click "save" button, save the above settings.

3.5.6.5 Network status

Enter the remote configuration -network configuration - network status, open the network status interface.



In this interface, the user can view the HTTP port, server port, network address and other network information of the device.

3.5.7 PTZ configuration

PTZ configuration includes a serial port configuration submenu.

Enter remote configuration - PTZ configuration, open the serial configuration interface. As shown in Figure 3-38:

Figure 3-38 Serial port configuration

Numeric key on the top left of the interface indicates that the device channel number, which is related with the specific device model,

Select "Enable PTZ function," set the address, baud rate and protocol according to the PTZ parameters. The implication of the parameters is described in Table 3-5. The user can copy the serial port configuration parameters of the specific channel to other channels, select "Apply Settings to" to the channels needing to set the same parameters or "All", click "Copy" button is OK.

Table 3-5

Parameter	Implication
Address	The address of PTZ device.
Baud rate	baud rate of the PTZ device,synchronize with the device configured.
protocol	communication protocol of the PTZ device ,synchronize with the device configured.

Click the "Default" button to restore the default settings; click the "Save" button to save the above settings.

3.5.8 Account Management

Account management includes an edit user submenu.

Enter the remote configuration -account management, open the edit user interface. As shown in figure 3-39:

Figure 3-39

The interface lists the user name, the belonged group and binding physical address information of each user that can log in the device to operate.

3.5.8.1 Add User

Step one: Click the Add button, pop up the edit new user interface, enter the user name, account and password of the new user, select the user type, namely belonged group (advanced / common user), select whether to enable the account, whether to bind physical address , and enter the physical address to be bound.

Step two: Specify the detailed operation permissions of the user according to the interface options.

Step three: Click the "OK" button to add the user to the account

list; click the "Cancel" button to exit the current interface.

Note: When setting specific binding physical address, the user can only remotely login on the binding computer.

3.5.8.2 Modify User

Select a user in the account list, click the Modify  button, pop up the modify user interface. The user type, the binding computer physical address and the user permissions can be modified.

3.5.8.3 Delete User

Select a user in the account list , click the Delete  button to delete the user.

Note: The administrator can not be modified or deleted.

3.5.8.4 Modify Password

Step One: Select a user in the account list, click  button to modify the password, pop up the modify password interface.

Step Two: User enters the old password and new password and confirm the new password again and click "OK" button to modify the user password to the new password; click "Cancel" button to exit the current interface.

3.5.9 Advanced Configuration

Advanced configuration includes an Import / Export submenu.

Enter the remote configuration→advanced configuration, open the import / export interface. The interface can set the path of import and export and do import and export operation of the device parameters.

3.6 Time Search

Step one: Click "Time Search" and enter the time search interface. As shown in Figure 3-39:

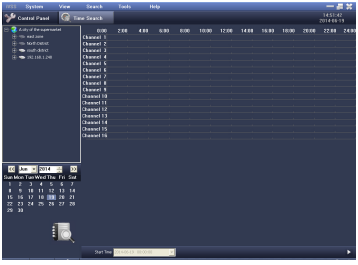


Figure 3-39

Step two: Select the device and channel needed to retrieve video in the device list.

Step Three: Select the date needed search, the date displaying in yellow in the calendar indicates there is video on that date.

Step four: Click the Search button for video retrieval. When the search is successful, the video of specified channel will display on the timeline panel, as shown in Figure 3-40:

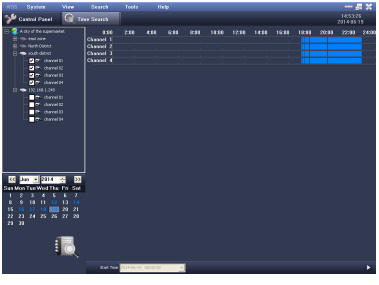


Figure 3-40 Time search

Step five: When place the mouse on the video strip, it will display the time of the video at that point, double-click to select the playback time point, then the ” Start Time” column will show

the selected start time of playback.

Prompt: The column represents hours and the row represents the channel.

Step six: Click the play button on the lower right corner to enter the video playback interface, then it will start to playback the video of selected channel from the selected time.

Step seven: Right-click the playback video and pop-up submenu, you can enable the audio of the channel and full-screen video playback, you can also double-click to amplify display the playback video of the channel. Choose the corresponding button on the screen to do playback control operations.

Figure 3-41 playback toolbar

(1) The start time of playback video of this period
(2) The prompt of playback progress
(3) Pause/play button
(4) Stop button
(5) Single-frame play
(6) Rewind button: click the drop-down triangle button which is next to this button, and it will pop-up selection box of rewind progress.
(7) Fast forward button: click the drop-down triangle button which is next to this button and it will pop-up the selection box of fast forward progress.
(8) The previous segment.
(9) The next segment.
(10) Playback progress ba.r
(11) Full-screen button: to full screen display the entire play panel, and you can double-click the left or right-click the mouse to restore.
(12) Screenshot button: The system will save the screenshots of the playback video in currently active window automatically, and it will pop-up the folder that saves the screenshots, the default is C:\IVSS\Pic.

(13) The option key of screen split way.
(14) The end time of this segment of playback video.

3.7 File Management

Step1: Click "file management" to enter the file management interface. As the following figure:

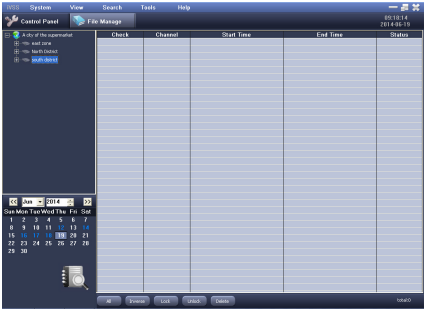


Figure 3-42

Step2: In the device list, select the devices and channels that you need to retrieve file information.

Step3: Select the date you need to search, the dates display in yellow in the calendar indicate there is video on that date.

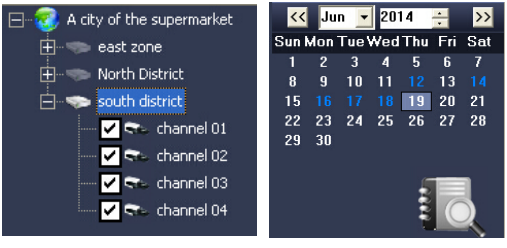


Figure 3-43

Step4: Click the Search  button to retrieve file information. When the search is successful, the file information of specified channel will display in the file list box, as shown in Figure 3-44:

Figure 3-44 File Management

Step 5: Select the corresponding file to do operations such as lock, unlock and delete.

Lock: Select a file and click the "lock" button, then click the "OK" button in the pop-up prompt message box, and then the file will be locked, the locked files can not be deleted or overwritten.

Unlock: Select the locked file and click the "unlock" button, then click the "OK" button in the pop-up prompt message box, and then the file will be unlocked

Delete: Select an unlocked file and click the "Delete" button, then click the "OK" button in the pop-up prompt message box, and then the file will be deleted.

Step 6: Double click a file can playback the file.

Step 7: Click the corresponding button on the screen for playback control operation, and refer to step 7 of 3.6 time search for details

3.8 Event Search

A. Step 1: Click "event search" to enter event search interface. As shown in figure 3-44:

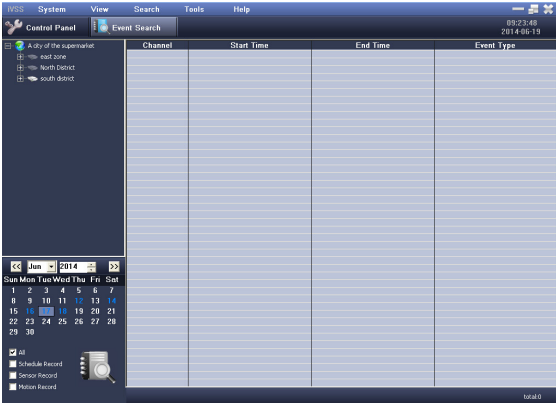


Figure 3-44 Event Search

B. Step 2: In the device list, select the devices and channels that you need to retrieve event information.

C. Step 3: Select the date and event type, in the calendar if the date display in blue, it indicates there is a video, the event type includes motion detection, sensor alarm and all.

D. Step 4: Click the Search button to retrieve event information. When the search is successful, the event information of specified channel will display in the file list box, as shown in Figure 3-45:

E. Step 5: Double click an event information, and it can playback.

F. Step 6: Click the corresponding button on the screen for playback control operation, and refer to step 7 of 3.6 time search for details.

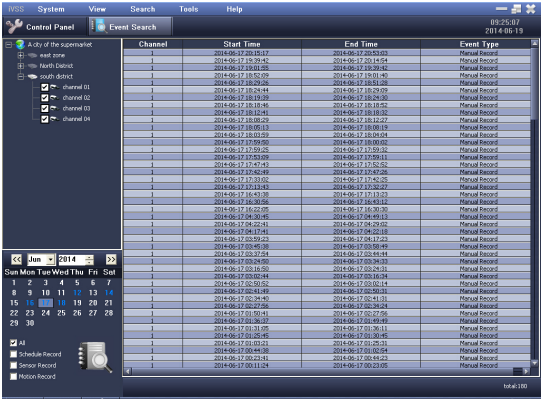


Figure 3-45 Event Search

3.9 Data Backup

Step 1: Click "remote backup" to enter the remote backup interface.

Step 2: In the device list, select the devices and channels that you need to retrieve data information.

Step3: Select the date you need to search, the dates display in blue in the calendar indicates there is video on that date.

Step 4: Click the Search button to retrieve data information. When the search is successful, the date information of specified channel will display in the data backup list box, as shown in Figure 3-46:

Step 5: Select a data file or click the "Select all" button to select all the data files , and click "Start Backup" button ,then it will pop up backup progress window and start to backup, as shown in Figure 3-47, if you click the “Cancel” button ,it will cancel the backup.

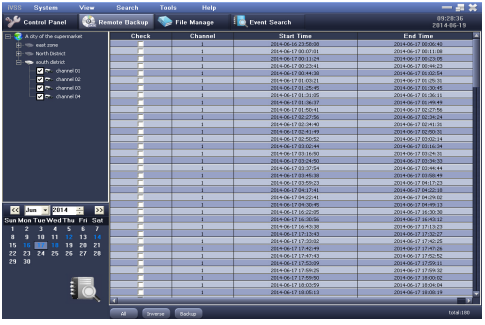


Figure 3-46 Data Backup

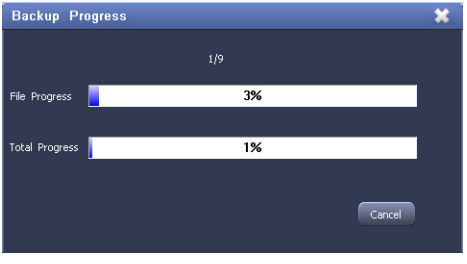


Figure 3-47 Backup Progress Window

3.10 log search

Step 1: Click "Log Search" in the menu bar to enter the log search interface. As shown in Figure 3-48:

Step 2: Select the belonged user, log type, start and end time of the log that you search

Step 3: Click the log search  button to retrieve log information. When the search is successful, the searched log

will be displayed in the log information list box.

Step 4: Click the Data Export  button, and open the "Save as" window, then select the storage location of the data export, and press the OK button to start exporting data.

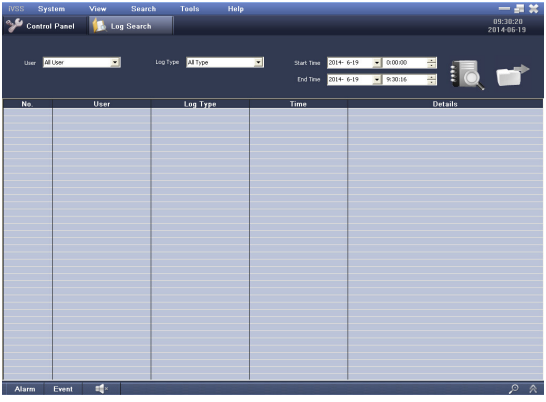


Figure 3-48 Log Search

4 Software Instruction Manual

4.1 Status icons and their meanings

Here first we will introduce some important status icons of client and their meanings to you, as shown in Table 4-1:

ICON	MEANING
	Regional icon
the icon before the device	
	Light gray indicates device does not connect or network disconnect.
	Dark grey indicates the device is connected
the icon before the channel:	
	Light gray indicates the channel's preview is closed.
	Dark gray indicates the channel's preview is open.
	Red color indicates that the channel is recording.
The icon of play window	
	Manual recording
	Timing recording
	Sensor alarm recording
	Motion detection recording

	Motion detection
	Sensor alarm
	Video loss
	Enable the audio
	Enable the intercom

Table 4-1

4.2 Live preview

After configuring the device, you can click "live" of the menu bar to enter the IVSS preview interface. Users can open real time surveillance video of up to 128 channels. You can preview up to 64 videos simultaneously on the screen and switch on two pages, and complete the operations of PTZ control, image parameter adjustment and so on.

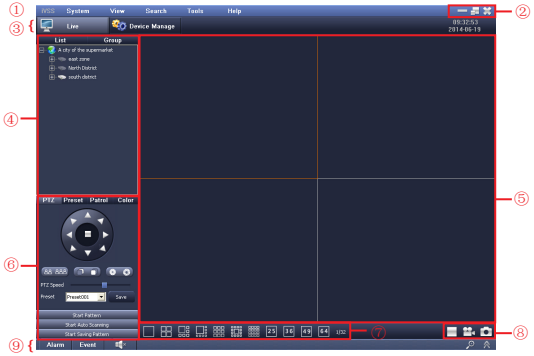


Figure 4-1 live interface

4.2.1 Interface Introduction

The following we will introduce the interface layout to you first. As shown in Figure 4-1

① IVSS menu bar

② System button bar

③ IVSS tab bar

④ Device List / Group

The default will display device list and if you click "group", it can be switched to the group mode display. Model description as shown in table 4-2:

Table 4-2

Display Mode	Description
List	Display the area and device that users added in device management.
group	Display user-defined group information.

⑤ Real-time play panel

When you first start the play panel, the default display is 2 × 2 play window. Users can choose to split screen into a number of windows according to need, maximum support 64 split screen. Click a window, then the window frame is displayed in orange, meaning it is the currently active window.

⑥ Control button area

It contains the PTZ control panel and image parameters adjust panel, for detailed steps, please refer to 4.2.5 PTZ Control 4.2.6 color adjustment.

⑦ Screen split mode selection area.

Figure 4-2

Real-time play panel can be divided into single-screen, 4

screens, 6 screens, 8 screens, 9 screens, 13 screens, 16 screens, 25 screens, 36 screens, 49 screens, 64 screens, totally 11 kinds of display screen.

There are number display after screen split mode button, the number before "/" indicates the current preview under current split mode are which group, the number after "/" indicates how many groups display there are under the current split mode.

The different screen split mode you choose, the different group display pages it will be, and you can switch the preview display group by pressing the current split mode button again.

⑧ Basic function button


Click to close all preview buttons and it can end all windows of real-time play.


Click the start recording button to record real-time video of all play windows, click the button again to stop recording.


Click the capture button, the system will save the preview video capture of the currently active window automatically and pop up the save folder, by default it will be saved in C: \ IVSS \ Pic in.

⑨ Alarm and event information list area.

Prompt: Some functions are the same to that of the control panel, here we will not repeat that, if necessary, please refer to 3.2 control panel.

4.2.2 Preview mode

1) Double-click the channel for preview

Click and select a play window of the real-time play panel, and double-click the channel in device list or group, then the selected window will begin to display real-time video of the channel.

2) Drag to preview

Drag the channel in the device list or group to the window you want to play, then the window will display real-time video of the dragged channel.

3) right-click menu to preview

Select the channel or device in device list or group and open the real-time video through right-click menu.

4.2.3 Finish Preview

1) Close the real-time preview of a window

Right-click on the window of real-time play and it will display the submenu, and select "Close Preview" to end real-time play of the window. Or you can select the channel or device which you want to finish playing, then right-click menu to close preview.

2) Close real-time preview of all windows.

Right-click on the window of real-time play, it will display the submenu, then select "Close all preview" to end real-time play of all windows.

Or click the button on the bottom of the screen to end real-time play of all windows.

4.2.4 Preview Control

In real-time play panel, the user can drag the mouse to achieve any exchange between channels.

Double-click on a preview window, you can enlarge video display of the window, double-click again, it will return to the previous screen again.

Live preview interface sample picture as shown in Figure 4-3:

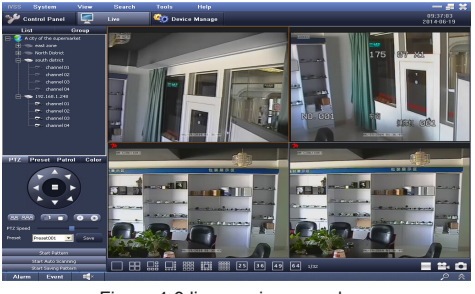


Figure 4-3 live preview sample

1) In the preview window, click the right mouse button to pop up the drop-down menu as shown in Figure 4-4 (a)

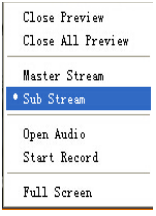


Figure 4-4 (a)

Close Preview: Close the preview of the currently active window.

Close all preview: Close the preview of all play window.

Main / sub stream: set the channel stream as main stream / sub-stream. The device supports dual-stream, which are the main stream and the sub stream. Sub-stream is low frame rate, with lower broadband requirement; main stream is high frame rate, requires higher broadband network. The specific frame rate of main stream and sub stream synchronize with the configured device.

Enable Audio: Select "Enable Audio" to open the live sound of the window, above the channel preview video audio icon  appears, you can right-click again and select "Close Sound" to turn off the live sound, then the audio icon disappears.

Note: The software can simultaneously open the audio of just one window, if you open audio of next window, then it automatically turn off the audio of the previous window.

Start recording: Select "Start Recording" to record the play video of the currently active window, and right-click "Stop Recording" again to stop recording the play video of the currently active window.

Full Screen: Select this item, the entire real-time play panel will be displayed in full screen, and the toolbar will hide, then double-click the left or right click can go back to the previous window.

Note: Live recording and capture need the corresponding channel to be under the preview enabled status.

2) in the preview window, select the channel in device list or group and click the right button of the mouse, it will pop-up the drop-down menu as shown in Figure 4-4 (b) :

Figure 4-4(b)

Open / Close: Open / Close real-time preview of the channel.

Enable recording: Click " Enable recording " to start manual recording of the channel, then the channel icon change to  status, then " Enable recording " change into "stop recording", click "Stop Recording" can stop manual recording of the channel.

Main / sub stream: set the channel stream as main-stream / sub-stream.

Prompt: When real-time preview of the channel is not enabled, "enable recording ", "main stream" and "sub-stream" options are invalid.

4.2.5 PTZ control

When the device is connected with PTZ, the PTZ control panel

on the left bottom of the preview screen can do PTZ control operations to the channels under preview status.

PTZ control

basic control functions of PTZ.

This feature allows users to achieve the direction control, step setting, focus adjustment, zoom adjustment and iris adjustment of the PTZ control through the PTZ control panel.

Note: Only for PTZ devices and users have permissions for PTZ control can perform PTZ control, otherwise the PTZ button is invalid.

Advanced PTZ control functions

This feature allows users to achieve PTZ preset settings and call, cruising setting through advanced options of the PTZ control panel.

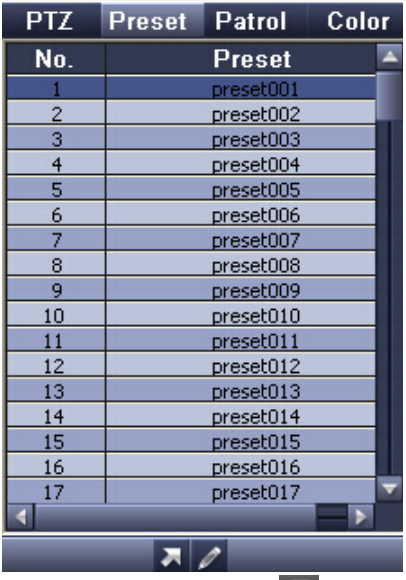
Note: Only for devices having PTZ with these advanced functions and users have permissions for PTZ control can perform advanced control of PTZ, otherwise the PTZ advanced button is invalid.

Pic4-5 PTZ control

As shown in figure 4-5, the user can control the PTZ up, upper right, right, lower right, down, lower left, left, upper left, or stop turning; drag the slider to adjust the speed of movement of the PTZ, can adjust the zoom, focus and aperture of the PTZ; click "start save track" button to start recording the track of PTZ movement, click the button again to stop recording; Click the "Start trace" button can play the recorded track, click it again to stop playing; click "start auto scan" button can make the PTZ automatically scan, click the button again to stop scanning.

1) Preset

Click "Preset" tab of PTZ control panel, preset setting interface as shown in Figure 4-6, it can support setting 128 PTZ preset point.



Select a preset and click the “run” key , then the PTZ will

perform the corresponding operations of the preset point.

Click the modify button to pop up the preset configuration window and select the preset point, shown in Figure 4-7:

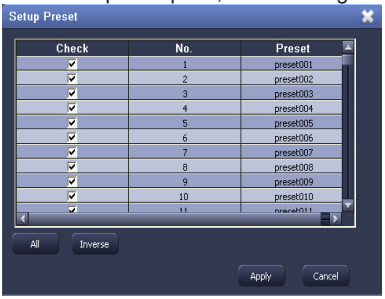


Figure 4-7 Preset Configuration

2) Cruise Line

Click "cruise line" tab on the PTZ control panel and the cruise line setting interface is shown in Figure 4-8, it can support setting eight cruise lines.

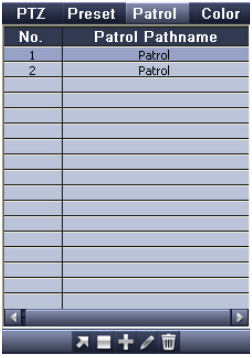


Figure 4-8 cruise line

a) Select a cruise line, and click the “Run” button , then the PTZ will perform the corresponding operations of the cruise line .Click the stop button to end cruise action of the PTZ.

b)Click the add button to pop up the cruise line configuration window, as shown in Figure 4-9:

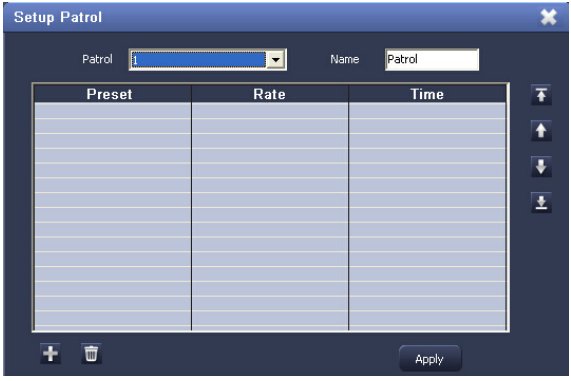


Figure 4-9

The user set serial number and name of the cruise line, click the Add button to add the speed and time of the preset in the "add preset" window, as shown in the right figure 4-10. Select a preset in the configuration cruise line lists, click the delete button to delete the preset point; Users can click Top , Move Up , Move Down and Bottom buttons to adjust the position of the presets. Click the "Save" button to save the settings, click the button to exit the current interface. As shown in Figure 4-11:

c) Selecting a cruise line, click the Modify button can modify the settings of the cruise line.

d) Selecting a cruise line, click the Delete key to delete the cruise line.

Figure 4-10 join preset

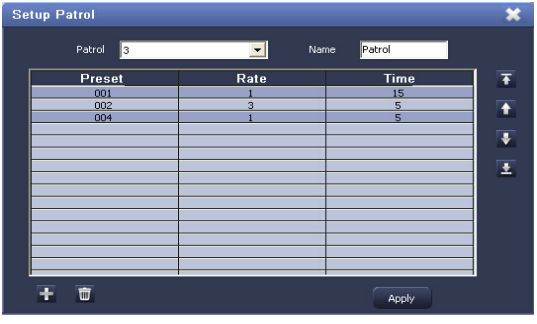


Figure4-11

4.2.6 Color adjustment

Click the "Color adjustment" tab, users can adjust the video picture parameters of the currently active window, including brightness, hue, saturation, and contrast; click the Default button  to restore the default settings; click the save button  to save the settings. As show in figure 4-12:

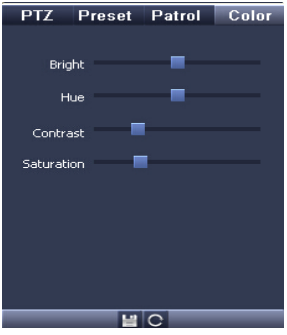


Figure 4-12 Color Adjustment

4.5Help

Enter the "Help", “about”, it will pop up IVSS window as shown in Figure 4-26, the window displays the version number of the client software that the user currently using.

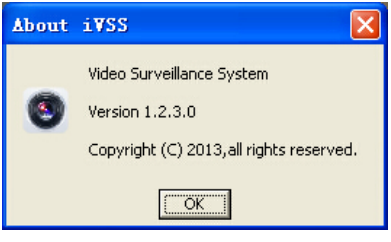


Figure 4-26 about IVSS

Appendix -1 FAQ

1. Cannot access to the IP Camera and DVR through the intelligent management (monitoring) system IVSS software?

► Possible reason: No network.

Solution: Connected the PC to the network and check whether it works normally or not. Check whether there is something wrong with the cable, and check whether there is network faulty caused by the PC virus until the computer can be connected to the Ping.

► Possible reason: The IP address is used by other device.

Solution: Stop the connection between the device and network, and connect the device to a separate PC, and then reset the IP address according to the proper recommendations.

► Possible reason: IP address is in a different subnet.

Solution: check the IP address, subnet mask address and gateway settings of the device.

► Possible reason: The web port has been modified.

Solution: Contact the network administrator to obtain relevant information.

► Possible reason: Unknown

Solution: restore default settings, and then connect again.

2. The color of the image is not normal (appear green or other color)

► Possible reason: Color adjustment is not appropriate.

Solution: To restore default settings in the color adjustment panel.

3. Can not control the PTZ and lens effectively.

► Possible reason: The connection of the signal cable is inappropriate or incorrect.

Solution: Connect control cable of PTZ or dome camera

again to the server.

► Possible reason: Do not set the relevant decoder protocol, address or the baud rate properly.

Solution: check whether the settings are correct or not.

4. Start-up abnormally after the software is reinstalled

► Possible reason: The previous version is not uninstalled completely.

Solution: Select the path where the previous version installed, the default path is C:\Program Files. Remove the config and LogFile folders in the IVSS folder, and then reinstall IVSS. If you delete the entire IVSS folder, the previous configuration information will also be deleted.

5. No sound when listening

► Possible reason: No audio input

Solution: check the audio connection of the host.

► Possible reason: Audio option of the device is not enabled

Solution: check the parameters setting of the audio, check whether you have enabled the audio or not.

6. The audio effect is not good

Solution: The audio input device need to match the DVR

Appendix -2 Instruction modify records

V1.1 version of the instruction is written corresponding to intelligent management (surveillance) system V1.1.0

V1.1 modification records

NO	modification
1	Newly add user manual to the help menu
2	Update some pictures
3	Add a FAQ
4	modify a few instructions

Thank you very much for purchasing our products, if you have any question or need, please feel free to contact us, we will provide dedicated, fast, professional, excellent service for you.

This manual is applicable to intelligent management (surveillance) system software, which may contain technical inaccuracies, or not in accordance with the product function and operation, or printing error. Our company will continuously enhance and improve according to the product function, and we will update and improve the content of the manual periodically, the updates will be added to the new version of this manual, without prior notice.