
BN1008 - iCube

IP Camera - 1.3 Megapixel

USER MANUAL

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Chapter 1 Welcome to iCube

1.1 Overview

The iCube is a client application specially developed for the embedded network monitoring equipment. The client software is using C/S architecture, and web-based video management platform. The end users use this system to achieve centralized monitoring, storage, data forwarding, management and control for multiple IP Camera, DVR and IP Dome in the LAN or Internet, and achieve real-time monitoring, recording, snap picture, two-way voice intercom, data backup, search and playback, remote configuration, PTZ control, alarm control and motion detection, etc.

1.2 Main Features

- ✓ Powerful remote management function
- ✓ Monitor 128 channels at most; manage as many as 4096 channels; preview 64 channels of real-time video monitoring at most, and self-select the quality of preview image and screen display mode
- ✓ Different channels in different devices can be organized to the same group for previewing simultaneously
- ✓ Support two-way voice intercom and audio switch
- ✓ Support electronic amplification, real-time snap picture, color adjustment and other functions in live preview
- ✓ local store video and audio for real-time preview
- ✓ Support configure snap picture and local record
- ✓ Support dwell configuration for real-time preview
- ✓ Support real-time display alarm status of device
- ✓ Support various PTZ protocols and PTZ control
- ✓ Support search and playback in local and remote mode
- ✓ Support basic playback control, snap picture, fixed-point play, electronic amplification, switching audio, multi-channel comparison and other function when

playback

- ✓ Support remote backup (backup into AVI files)
- ✓ Support remote reboot, remote online upgrade, remote modify parameters, remotely modify the boot LOGO, remote import and export data, remote access to state information, etc (not support emote online upgrade and modify LOGO temporarily)
- ✓ Support customize user permissions to view the configuration log, operation log, alarm log and export saved
- ✓ Record modes: Manual, Schedule, Motion detection and Sensor alarm recording
- ✓ Support video cloud function
- ✓ Configurable SMTP, DDNS, PPPoE dial-up for devices.

1.3 Computer Disposition Request

Operating System: Microsoft Windows XP/ Windows 7;

CPU: Intel Pentium IV 3.0 GHz or models above;

RAM: 1G or above;

Video card: Graphics card is required, and support DirectX 9.0 or above;

Audio card: Essential to voice monitoring or two-way voice intercom;

1.4 Audience

This manual applies to the following persons:

- System planning person
- Technical support and maintenance person
- Administrator
- End users, retailers, professional users and ordinary civilian users, etc.

1.5 Convention

Conventions are as follows in this manual:

- IP Camera、DVR are all referred to as device
- Click refers to left click mouse; double click refers to double left click the mouse; right click refers to right click mouse
- Some pictures in this manual is a diagram for reference only, if the picture does not match with the real interface of the software, please make the real interface

as the standard

Chapter 2 - Installation Guide

2.1 Install Software

Follow the prompts to complete the install. Here are the installation steps:

- 1) Insert the installation disc (support XP and WIN7 system), or copy the iCube installation package to PC, find the setup program icon, double click it to pop up the iCube Setup Wizard, click "Install".
- 2) Click "Next"; refer to Fig 2-1:
- 3) Select installation path and type, click "Install"; refer to Fig 2-2:

The default path for installation is C:\Program Files\iCube\, click "Browse" to change the installation path.

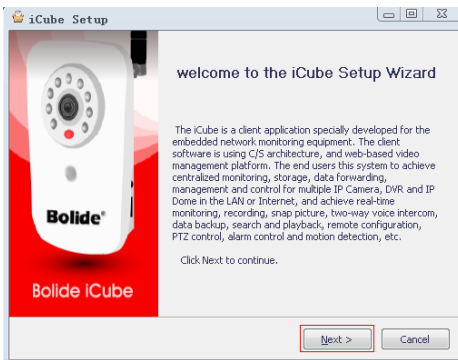


Fig 2-1

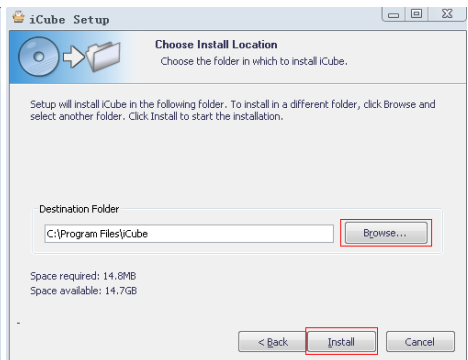


Fig 2-2

- 4) The process bar shows the progress of installation. After installation is complete, click "Finish" to exit; refer to Fig 2-3:

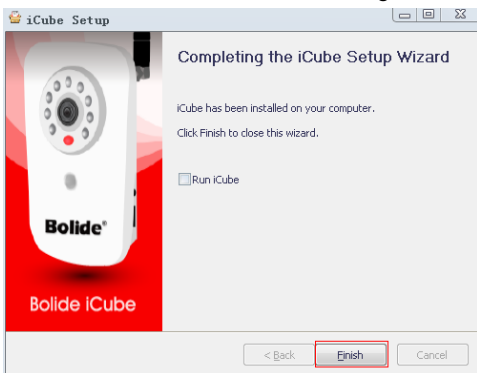



Fig 2-3

iCube shortcut  appears on the user's PC desktop; double-click it to enter the user login interface.

2.2 Uninstall Software

- 1) Go to Start Menu → “All programs” → “iCube” → click “Uninstall iCube”; refer to Fig 2-6:



Fig 2-6

- 2) Or go to Start Menu → “Control Panel” → “Increase / Remove Programs” → “iCube” → click "delete".
- 3) Pop up a dialog box, click "Yes".
- 4) The process bar shows the progress of uninstallation. After uninstallation is complete, the progress window and iCube shortcut disappear automatically.

Note: If user has installed a different version of iCube, please uninstall the previous version and delete the installation directory, and then start the installation.

2.3 Recover Software

Reason 1: The software is improperly deleted or modified.

- 1) Running iCube to repair the program automatically, as shown in Fig 2-7. Enter the user login interface after recovery is done.

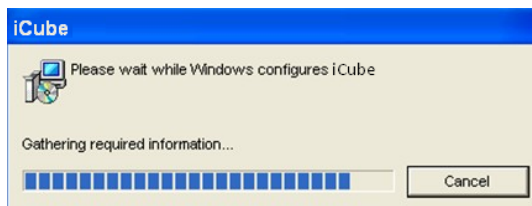


Fig 2-7

- 2) Or open the installation package, double-click icon to pop up the interface as shown in Fig 2-1, then click "install".
- 3) Enter into the iCube Setup Wizard; refer to Fig 2-8. Select "Repair iCube" and click "Finish" to recover software; select "Remove iCube" to remove software.

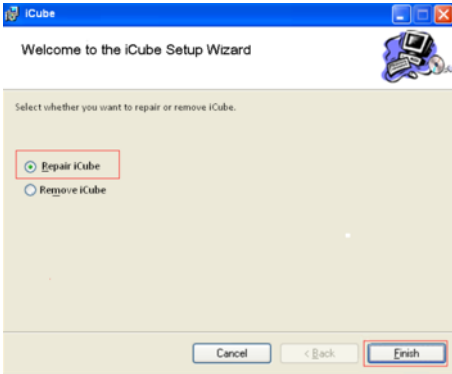


Fig 2-8

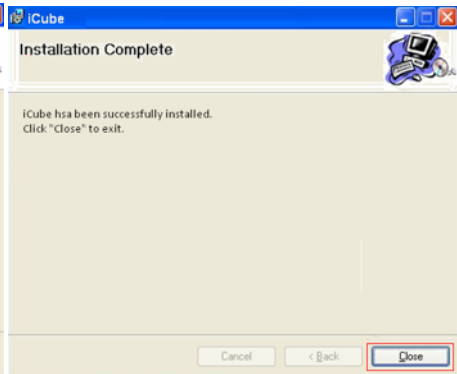


Fig 2-9

- 4) After recovery is complete, click "Close" to exit, refer to Fig 2-9.

Reason 2: The computer is not installed Microsoft.net.

- 1) Uninstall iCube; refer to Chapter 2.2 uninstall software.
- 2) Open the installation package, double-click icon to pop up the iCube Setup interface as shown in Fig 2-10. Program has searched the .net components automatically which your PC is not installed.

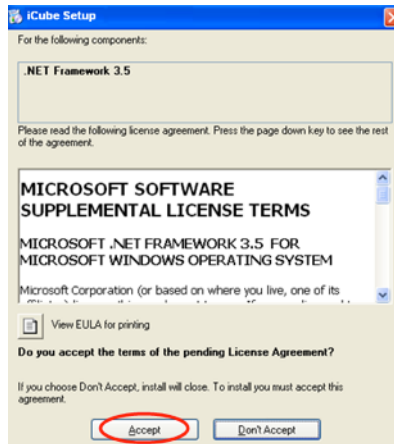


Fig 2-10

- 3) Click “Accept” to install the program and configure the components.
- 4) iCube Setup Wizard will pop up automatically after the configuration is successful; refer to Fig 2-1. The installation steps refer to Chapter 2.1 install software.

Chapter 3 - Operation and Configuration

3.1 User Login

Double-click iCube shortcut on the desktop or select iCube in the Start Menu to run the client program and enter the user login interface, as shown in Fig 3-1.



Fig 3-1

Language: Select the system language, including Simplified Chinese and English;

User: Input the user name; the default user name is “admin”;

Password: Input the password; the default password is blank;

Click “Remember Password” to save the password. When you next log in, it will automatically show the last saved password.

Input user name and password, then click “Login” button to enter the iCube client; click “Exit” button to exit the login interface.

Note: *If user name or password you have entered is incorrect, the warning dialog will pop up.*

3.2 Control Panel

3.2.1 Interface Introduction

After users have logged in, it will enter into the control panel page, as shown in Fig 3-2:

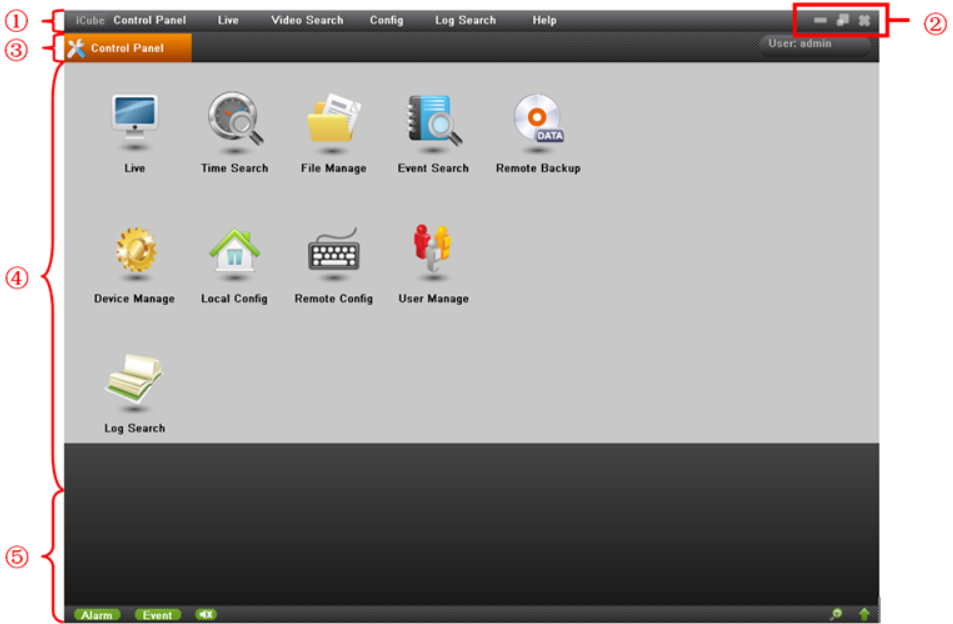


Fig 3-2

□ Menu Bar

The menu bar includes all functional modules: control panel, live, video search, config, log search and help.

□ Toolbar



: Minimize button





: Maximize button



: Exit button

□ Tab Bar

- After selecting any functional module in the menu bar, they will be added to the tab bar. User can open and switch between multiple functional tabs.
- The tab of control panel is opened by default after landing; it is always at the first label.
- The current tab is displayed in orange, non-current tabs are displayed in black.
- When user opens more than five tabs,  button appears at the right of the tab bar. Click it to select functional tabs which have been opened in the drop-down menu.
- When the mouse points to the upper right corner of label, there will appear 

button which means close the tab.

□ Functional Area

User can enter the system function and configuration through control panel. The control panel includes 10 common functions instead of through the menu bar.

□ Alarm and Event Info Area

3.2.2 Alarm and Event

1) Click "Alarm" button to pop up alarm information list; refer to Fig 3-3:

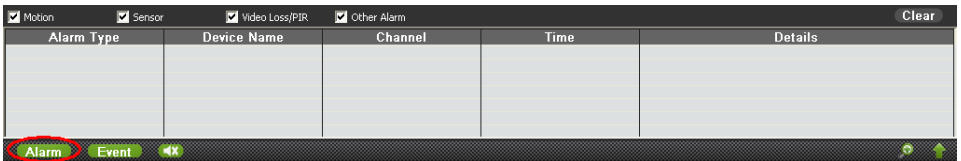


Fig 3-3

User can select the alarm type, including motion detection, sensor alarm, video loss/PIR and other alarm.

If user has already enabled alarm and triggered an alarm, a small icon will be displayed on the preview screen, and the alarm list shows the alarm information of equipment. As shown below:

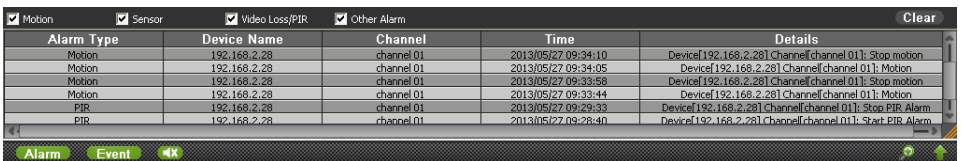


Fig 3-4

The meaning of other buttons in the interface is shown in Table 3-1:

Table 3-1

Button	Meaning
	Clear all alarm messages in the list
	Audio switch, and set the volume
	Click this button to display more alarm information, click again to hide the list.
	Switch the list display mode

2) Click "Event" button to pop up event information list; refer to Fig 3-5:

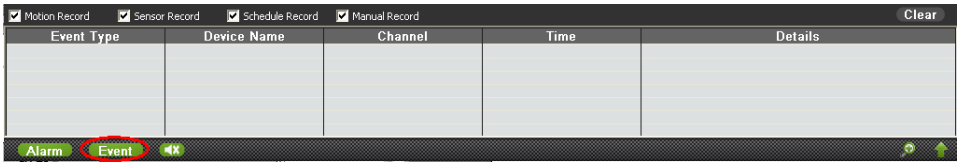


Fig 3-5

The list shows the record information of equipment. User can select the record type, including motion record, sensor record, schedule record, and manual record.

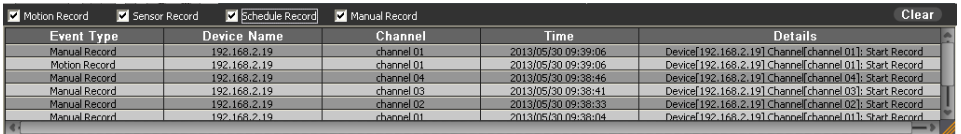


Fig 3-6

Note: Alarm list displays the alarm information of IP Camera and DVR you are monitoring. Event list only displays the record information of DVR you are monitoring.

Note: Layout and function of Menu Bar, Toolbar, Tab Bar and Alarm Info Area are the same as other tabs.

3.3 Device Manage

Config includes four submenus: device manage, local config, remote config and user manage.

Click “Config”—>“Device Manage” to enter the device manage page. Refer to Fig 3-7:

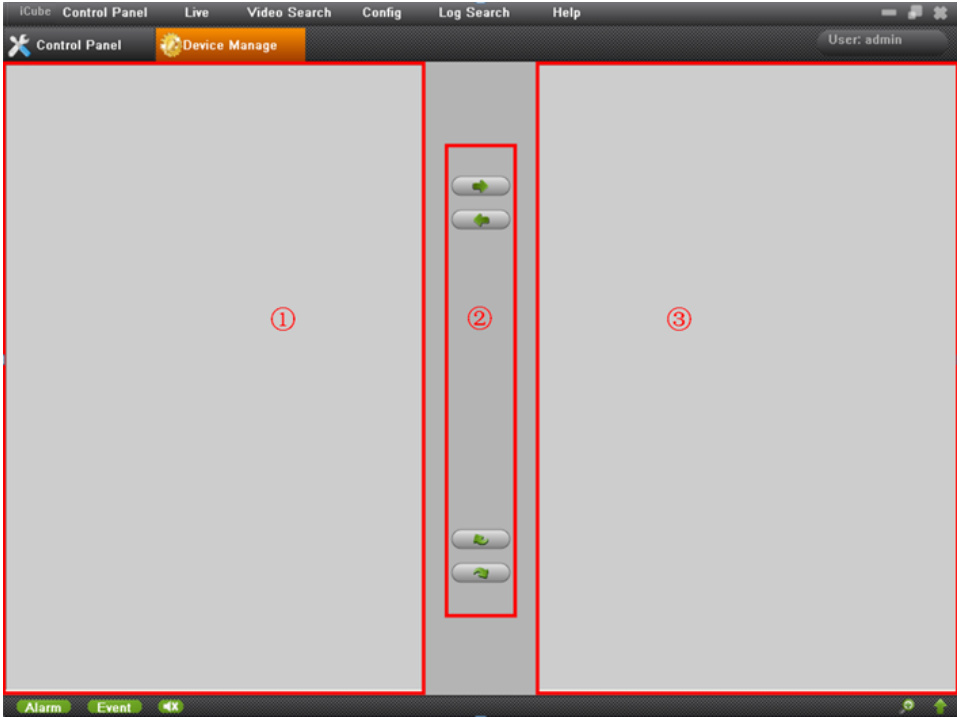






Fig 3-7

① List area

② Configuration buttons

-  Add the channel to group
-  Remove the channel from group
-  Import device info
-  Export device info

User can export the device information into PC as a local file for backup, or import the device information from PC to iCube.

□ Group area

3.3.1 Add Area and Device

Note: Before any operations, you need to add device and configure it.

Step1: Right click list area, select “Add Area” from the menu to enter the Add Area

window, as shown in the following figure:



Fig 3-8

Step2: Enter the area name (such as “Monitor area”) and click “OK” to add this area into the list area.

Step3: Right click the area name and select “Add Device” to enter the Add Device window, as shown in the following figure:



Fig 3-9

Step4: Enter the device information and click “OK” to add this device into the area. The description of each option is as shown in Table 3-2:

Note: *Multiple devices can be added to an area.*

Table 3-2

Options	Description
Device Address	Device's IP address
Device Type	Select the device's type: HD IPC and DVR
Device Name	Self-define the device's name
Data Port	Device's port number
User / Password	Device's user name and password; the default user name and password is “admin” and blank
Channel Number	Device's channel number
Belong Area	Device's area; gray meanings disabled

Step5: User can also add device by searching device.

Click “Search Device” button in the Add Device window to search device online. The searched device will be displayed in the list, as shown below. Select the device you want to add, click “OK” or “Multichannel add” to add a select device or multi-device to area.

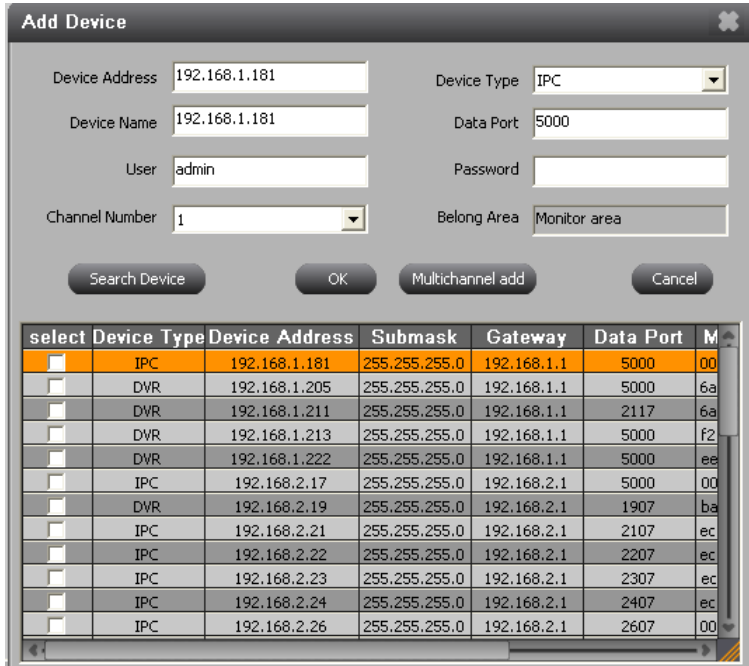


Fig 3-10

Note: Click **+** in front of the area name or device name, or double-click the name to expand the list. Click **-** or double-click the name again to collapse the list.

3.3.2 Area Configuration

Add sub-area: Right click the area name and select “Add Area” to add a sub-area; the sub-area may also add its sub-area.

Modify area: Right click the area name and select “Modify Area” to modify the area name;

Delete area: Right click the area name and select “Delete Area” to delete the area, its sub-area and its device.

Note: When the device is being previewed, its area cannot be modified or

deleted. Please stop previewing first.

3.3.3 Device Configuration

Modify device: Right click the device name and select “Modify Device” to modify the device information;

Delete device: Right click the device name and select “Delete Device” to delete this device.

Note: *When the device is being previewed, it cannot be modified or deleted. Please stop previewing first.*

3.3.4 Modify Channel

Right click the channel name and select “Modify Channel” to modify the channel name; you can also enter the Modify Channel window by double clicking the channel name.

Note: *When the channel or other channels to which the device belongs is being previewed, the channel cannot be modified. Please stop previewing first.*

3.3.5 Group Configuration

Grouping function can manage each channel you have added effectively.

Step1: Right click the group area, select “Add Group” from the menu to enter the Add Group window, as shown in the following figure:

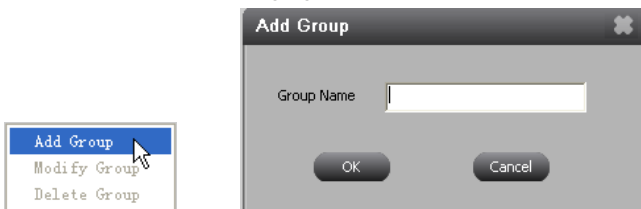


Fig 3-11

Step2: Enter the group name (such as “Business center”) and click “OK” to add this group into the group area.


Step3: Right click the group area or group name, select “Add Group” to add other new group or sub-group.

Right click the group name and select “Modify Group” to modify the group name.

Right click the group name and select “Delete Group” to delete the group, its sub-group and its channels.

3.3.6 Group Channel Configuration

After adding the group, the channels in the list area can be moved to the selected group.

Add Channel: Click the group name which wants to add channel, select channel in the list area and click  button to move it to the group. As shown below:

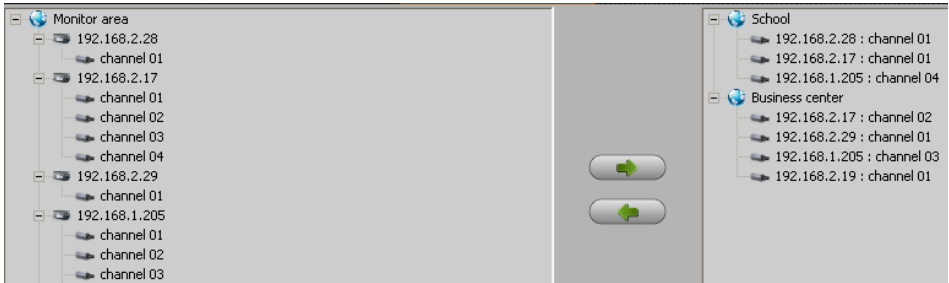



Fig 3-12

Delete Channel: Select channel in the group area and click  button to remove it from the group; or right click the channel name, select “Delete Channel” to delete it.

Note: *One channel can be added to different groups, yet one group cannot add the same channel repeatedly. As shown below:*

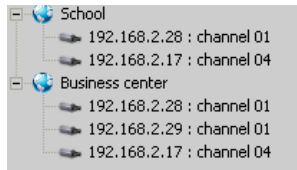


Fig 3-13

Note: *The total number of channels supported by iCube is 4096. The number of device channel is the number can be added to each group. So, a group can be assigned to 4096 channels at most.*

3.4 Local Config

Click “Config”→“Local Config” to enter the local config page. Refer to Fig 3-14:

In this interface, click “Browse” button to change the save path of local snap, data backup and local record, set up the packing time of local record and the holding time of alarm log, operation log.

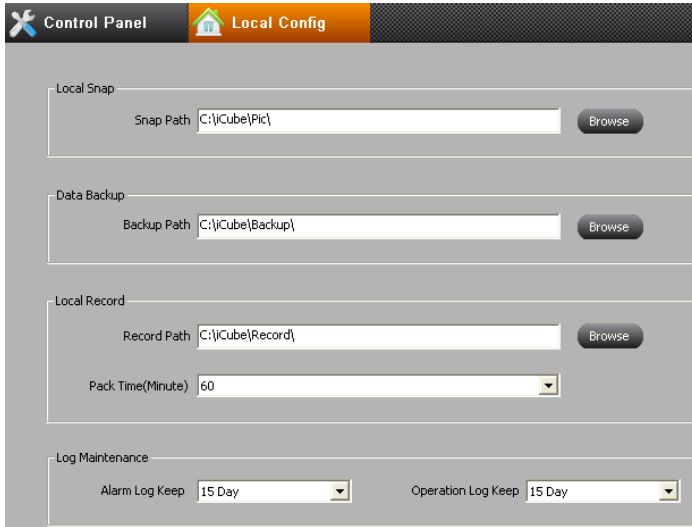


Fig 3-14 Local config interface

3.5 Remote Config

Click “Config”→“Remote Config” to enter the remote config page.

Double-click the device which needs to be configured in the list area. User can configure the device remotely after system reads the device’s configuration successfully. Fig 3-15(a) shows the IP Camera’s remote config main interface, Fig 3-15(b) shows the DVR’s remote config main interface.

Note: Only the device with a successful connection can be configured remotely. While other users are configuring the device, you will not be able to access this device’s remote config interface, please try again later.

Note: The devices with different types or models have different remote config interface. The figures provided are only for illustration; please refer to the actually displayed interface as final.

Note: Users with remote config authority can enter into the remote config interface, otherwise it will prompt you have no operating authority.

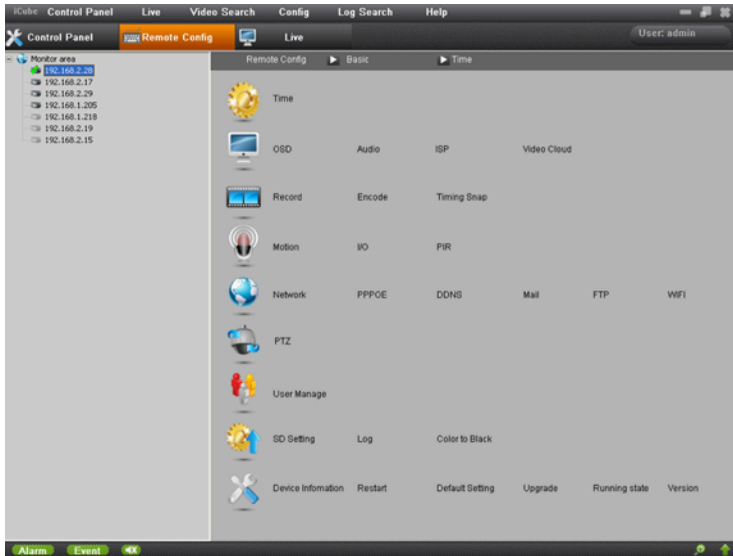


Fig 3-15(a)

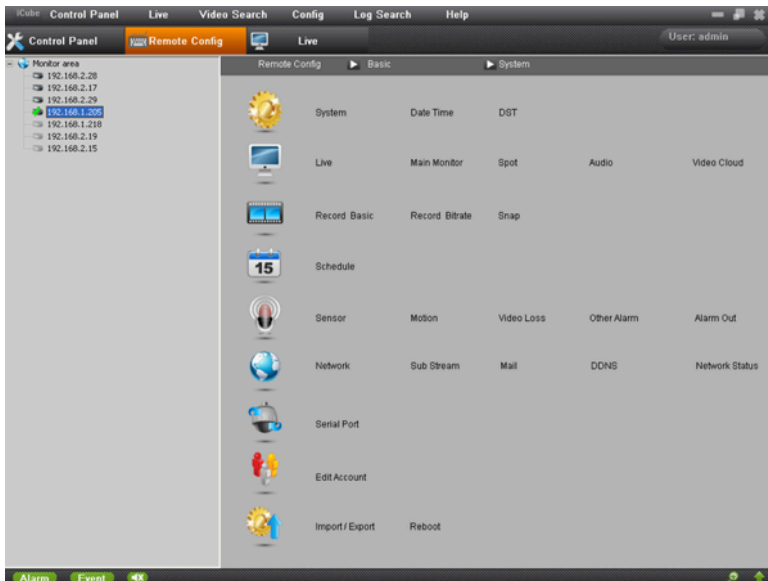



Fig 3-15(b)

Here take DVR as an example to explain the steps of remote configuration:

The interface lists all functions; user can click these items to enter the configuration.

User can also select the menu and submenu by clicking  button; click “Remote Config” on the left to return to the config main interface, as shown in Fig 3-15.

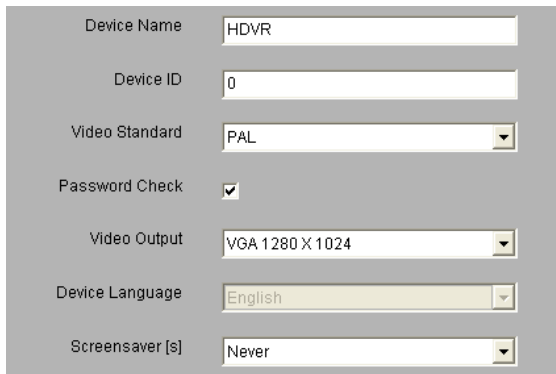
“Remote Config” includes nine submenus: Basic, Live, Record, Schedule, Alarm, Network, P.T.Z, Account and Advanced.

3.5.1 Basic Configuration

Basic configuration includes three submenus: system, date time and DST.

3.5.1.1 System

Enter into “Config”→Remote Config→Basic→System. User can set up the device name, device ID, video standard, video output, etc. Refer to Fig 3-16.



Device Name	HDVR
Device ID	0
Video Standard	PAL
Password Check	<input checked="" type="checkbox"/>
Video Output	VGA 1280 X 1024
Device Language	English
Screensaver [s]	Never

Fig 3-16

Device Name/ID: The name / ID of device. It may display on the client end or CMS that help user to recognize the device remotely. ID range: [0~65535].

Video Standard: Two modes: PAL and NTSC.

Password Check: Enable this option. User needs to enter the user name and password for authentication, and do operations with the relevant right.

Video Output: The resolution and menu output of live display, range from: CVBS, VGA800*600, VGA1024*768, VGA1280*1024 and HDMI.

Note: *Change the video standard or video output, the system will reboot. User need to double-click the device again to enter the remote config.*

Device Language: Select the menu language. User has selected the menu language on login, so this option is disabled.

Note: *Change the language or video output, the device needs to login again.*

Screensaver[S]: Set the screensaver interval time. If there is no any operation within the period specified, the device will automatically logout OSD.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

It will pop up a warning dialog box when user leaves the page without saving changes; refer to Fig 3-17.

Click "OK" to save the setting; click "Cancel" to exit the current interface.

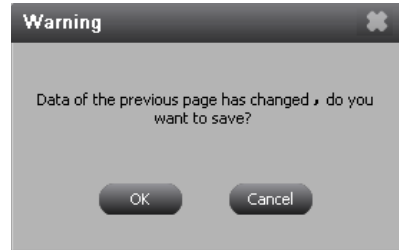


Fig 3-17

3.5.1.2 Date & Time

Enter into “Config”→Remote Config→Basic→Date Time; refer to Fig 3-18:

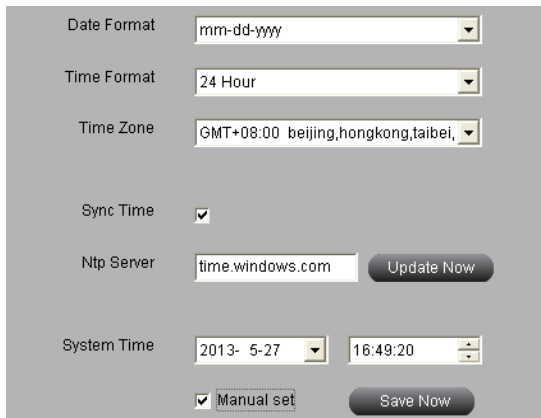


Fig 3-18

User can set the date format, time format and time zone; enable “Sync Time” and click “Update Now” button to synchronize device time with NTP server (optional); or manually set the device time and click “Save Now” button.

Click “Default” button to restore the default setting; click “Apply” button to save the

setting.

3.5.1.3 DST

Enter into “Config”→Remote Config→Basic→DST; refer to Fig 3-19:

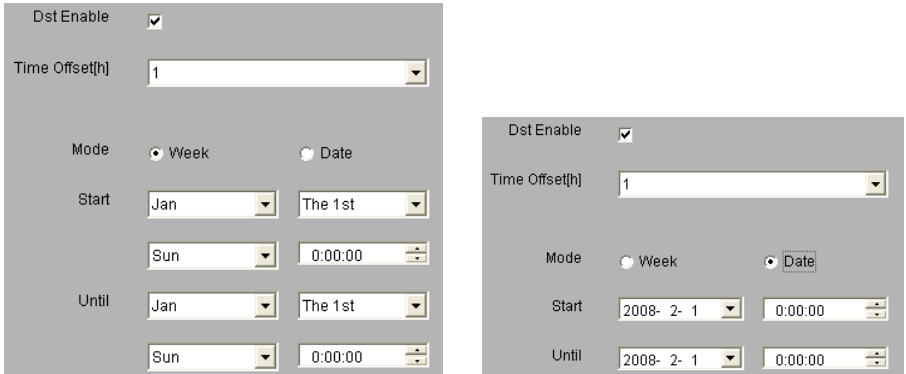


Fig 3-19

User can tick off “DST Enable” to enable the daylight saving time function, and set time offset, mode, start & end time.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.2 Live Configuration



Live configuration includes five submenus: live, main monitor, spot, audio and video cloud.

3.5.2.1 Live

Enter into “Config”→Remote Config→Live→Live; refer to Fig 3-20:

User can click Camera Name to change the camera name; tick off “Show Name” or “Display Records Status” to display camera name and record status in preview mode.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

Select the display mode (synchronize with configured device); set the channel combination of current picture group, click  or  button to set the previous/latter channel groups of dwell picture; set dwell time: the time interval for a certain dwell picture display switching to next dwell picture display.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.2.3 Spot

Enter into “Config”→Remote Config→Live→Spot; refer to Fig 3-22:

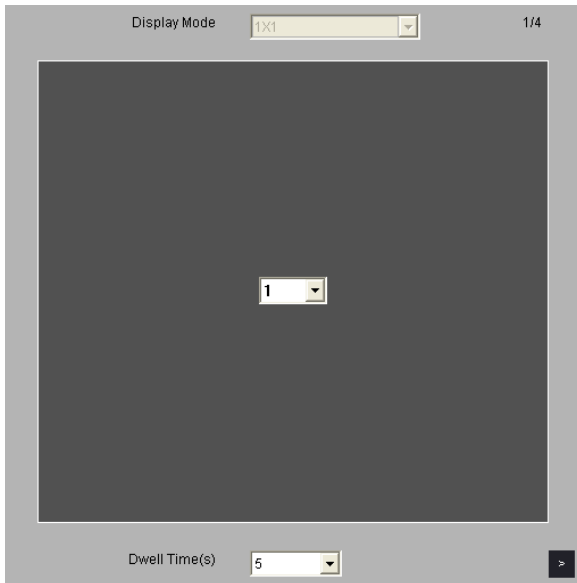




Fig 3-22

Select the display mode (synchronize with configured device); set the channel combination of current picture group, click  or  button to set the previous/latter channel groups of dwell picture; set dwell time: the time interval for a certain dwell picture display switching to next dwell picture display.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.2.4 Audio

Enter into “Config”→Remote Config→Live→Audio. User can set the volume of each channel.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.2.5 Video Cloud

Enter into “Config”→Remote Config→Live→Video Cloud; refer to Fig 3-23:

User can set the private mask area for each channel. The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example.

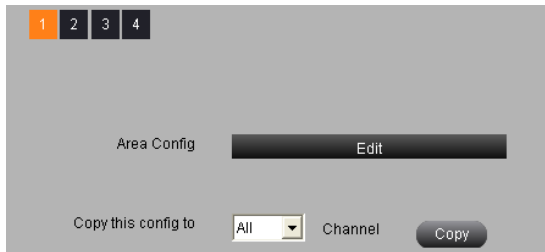


Fig 3-23

Set mask area: Click “Edit” button, then click and drag cursor to set the privacy area of video image. An image can be entirely or partially masked, it supports 4 areas (superposable) at maximum. Click area to select this area, click again to deselect. Click “Clear all” button to clear all privacy areas; click “Clear” button to clear selected privacy area; click “Save” button to save the setting; click “Back” button to return to the previous window.

Privacy area configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.3 Record Configuration

Record configuration includes three submenus: record basic, record bitrate and snap.

3.5.3.1 Record Basic

Enter into “Config”→Remote Config→Record→Record Basic; refer to Fig 3-24:

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example.

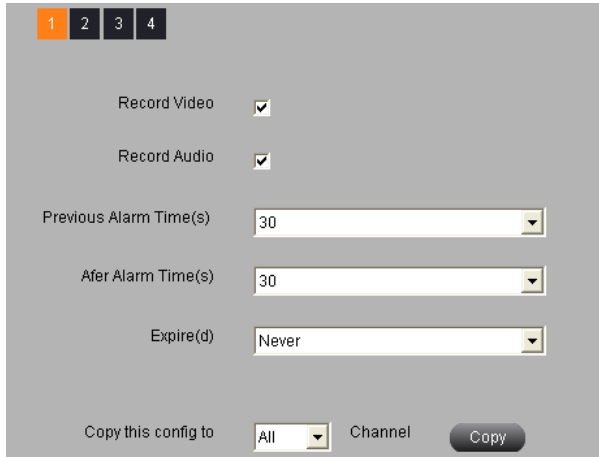


Fig 3-24

Record Video / Audio: Enable the record video and audio switch of every channel.

Previous Alarm Time: Alarm signal needs a little time to process and trigger recording, it may not record some important information before alarm activation. This function can save pre-recording and improve monitoring reliability. Set the record time before event happen (motion detection or sensor alarm).

After Alarm Time: Set the delay time to stop the record after the alarm is finished.

Expire: The hold time of recorded files. If the recorded files are overdue, they will be deleted automatically.

Record configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.3.2 Record Bitrate

Enter into “Config”→Remote Config→Record→Record Bitrate; refer to Fig 3-25:



Fig 3-25

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example. The meaning of each option is as shown in Table 3-3:

Table 3-3

Parameter	Meaning
Resolution	The range of options: synchronize with configured device
Fps	Range from 1~30(NTSC) or 1~25(PAL) (Resolution and frame rate are determined by the parameter specifications of specific type)
Encode	Two options: VBR and CBR
Quality	The higher the grade is, the clearer the recorded image is. Six grades: lowest, lower, low, medium, higher and highest.
Max Bitrate	The range of options: synchronize with configured device

Record bitrate configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

Note: If frame rate surpasses the maximum resources of device, the value will be adjusted automatically.

3.5.3.3 Snap

Enter into “Config”→Remote Config→Record→Snap; refer to Fig 3-26:

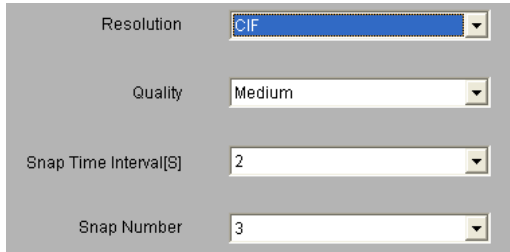


Fig 3-26

In this interface, user can set up the resolution, quality, snap time interval and snap number of snap pictures.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.4 Schedule

3.5.4.1 Schedule Record

Step1: Enter into “Config”→Remote Config→Schedule→Schedule; refer to Fig 3-27:

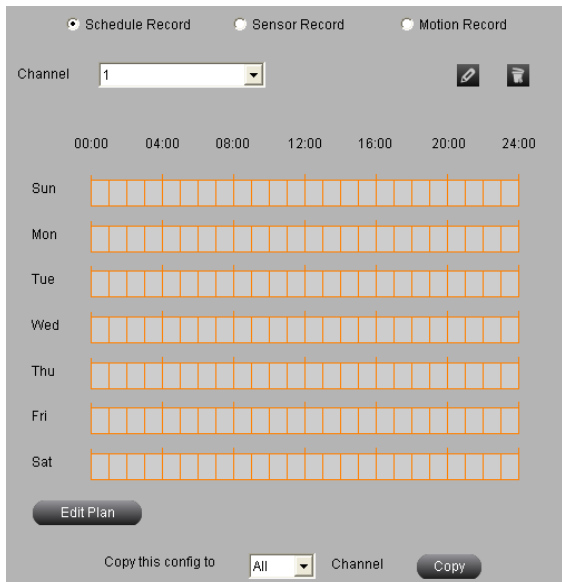



Fig 3-27

change.

- ④ Select a plan in the week schedule list, click delete  button to delete the selected plan.

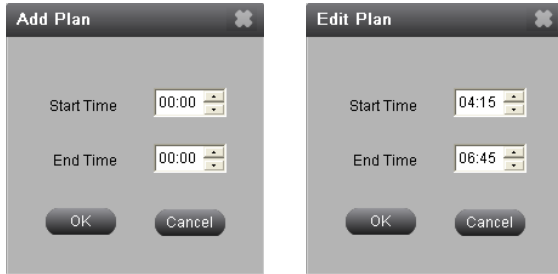


Fig 3-30

- ⑤ Day schedule configuration can be copied to the other date. Click “Copy” button to copy the specified schedule settings to other date or all dates.
- ⑥ Click “OK” button to save the setting, click “Cancel” button to exit current interface.

Step4: Schedule configuration can be copied to the other channel or all channels. Select "Copy this config to" to the date or "All" which set as the same settings, click "Copy" button.

Step5: Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.4.2 Sensor Record

Change the record type to sensor alarm record; the setup steps of sensor are similar to schedule; user can refer to Chapter 3.5.4.1 Schedule for details.

Note: *The default schedule of sensor alarm is full-selected, that is, the color of schedule setting interface is blue.*

3.5.4.3 Motion Record

Change the record type to motion detection record; the setup steps of motion are similar to schedule; user can refer to Chapter 3.5.4.1 Schedule for details.

Note: *The default schedule of motion detection is full-selected, that is, the color of schedule setting interface is blue.*

3.5.5 Alarm Configuration

Alarm configuration includes five submenus: sensor, motion, video loss, other alarm and alarm out.

3.5.5.1 Sensor

Enter into “Config”→Remote Config→Alarm→Sensor; refer to Fig 3-31:

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch alarm input for example.

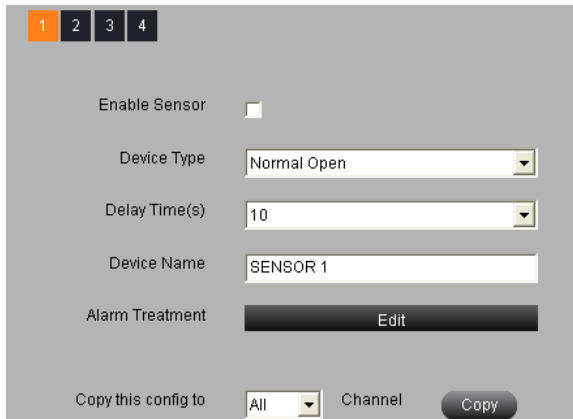


Fig 3-31

Step1: Enable sensor alarm of alarm input; select the device type according to alarm trigger type: normal open and normal close; select the holding time of sensor alarm; click device name to self-define the alarm device name.

Step2: Click “Edit” button of alarm treatment to enter the alarm handling interface.

Buzzer Alarm: After selecting Buzzer alarm, there will be triggered the buzzer buzzing when alarm is triggered.

Show Full Screen: Pop up full screen of channel video (optional) when alarm is triggered.

Send Mail: Enable this function, the information of sensor alarm will be sent to mailbox when alarm is triggered. The notification email can contain text messages and images.

To Alarm Out: Linkage specified alarm output with built-in relay when alarm is triggered.

To Record: Linkage specified channel to record the video when alarm is triggered.

To PTZ: Set the action type of linkage PTZ when alarm is triggered: not trigger, preset, patrol and pattern.

To Snap: Linkage specified channel to capture the image when alarm is triggered. If user enables the Email function, these pictures will be sent to user’s designed email box.

Click Back button to exit the current interface.

Step3: Sensor alarm configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Step4: Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.5.2 Motion

Enter into “Config”→Remote Config→Alarm→Motion; refer to Fig 3-32:

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example.

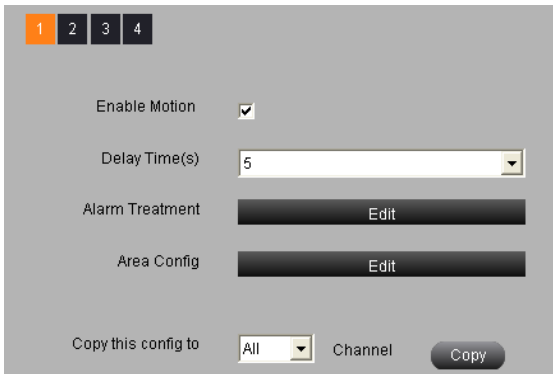


Fig 3-32


Step1: Enable motion detection alarm; select the alarm holding time.

Step2: Click “Edit” button of alarm treatment to enter the alarm handling interface. The setup steps of motion trigger are similar to sensor alarm handling; user can refer to Chapter 3.5.5.1 Sensor→Step2 for more details.

Step3: Click “Edit” button of area config to enter the motion area interface.

Due to the sensitivity is influenced by color and time (day or night), user can drag slider to adjust the sensitivity of motion detection (1~8) according to the practical situation.

Click  button, then press and drag cursor to add detection area; yellow coverage

means selected area; click  button, then press and drag cursor to delete detection area; click “Clear” button to clear all detection areas, click “Save” button to save the setting; click “Back” button to exit current interface.

Step4: Motion detection configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

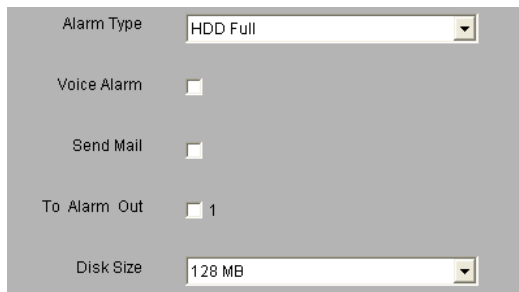
Step5: Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.5.3 Video Loss

Enter into “Config”→Remote Config→Alarm→Video Loss. The setup steps are similar to sensor alarm; user can refer to Chapter 3.5.5.1 Sensor for more details.

3.5.5.4 Other Alarm

Enter into “Config”→Remote Config→Alarm→Other Alarm; refer to Fig 3-33:



Alarm Type	HDD Full
Voice Alarm	<input type="checkbox"/>
Send Mail	<input type="checkbox"/>
To Alarm Out	<input checked="" type="checkbox"/> 1
Disk Size	128 MB

Fig 3-33

Step1: Select the alarm type, and then set the trigger options. When the selected alarm is triggered, it will trigger the relevant alarm.

Select “HDD Full”: set a threshold value for remaining HDD space. If the threshold value is reached, the system will display prompt.

Select “IP Address Conflict”: when IP address conflict with other network device’s IP address on the same segment, the system will trigger alarm prompt if you have set the trigger options.

Select “Network Unconnected”: the system will trigger alarm prompt if you have set the trigger options when disconnected from the network.

Step2: Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.5.5 Alarm Out

Enter into “Config”→Remote Config→Alarm→Alarm Out; refer to Fig 3-34:

	Alarm Out Name	Delay Time(s)
1	ALARM OUT 1	10
2		
3		
4		
All	<input type="checkbox"/>	5

Voice Alarm

Delay Time(s) 5

Alarm Out Schedule

Fig 3-34

Step1: User can self-define the alarm out name, select holding time of alarm output. The number of alarm output is determined by device model. Tick off “all” and then do relevant setup, user can set all alarm output with same parameters.

Step2: Tick off “Voice Alarm” to enable alarm sound, and select holding time of alarm sound; it will trigger an audible alarm when alarm is triggered.

Step3: Click “Alarm Out Schedule” button to set up the detecting schedule of alarm out. The setup steps of alarm out schedule are similar to schedule; user can refer to 3.5.4.1 Schedule Record for details.

Step4: Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.6 Network Configuration

Network configuration includes five submenus: network, sub stream, DDNS, mail and network status.

3.5.6.1 Network

Enter into “Config”→Remote Config→Network→Network; refer to Fig 3-35:

Http Port	1908
Server Port	1907
Use DHCP	<input type="checkbox"/>
IP Address	192 . 168 . 2 . 19
Submask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 1
1st DNS Server	8 . 8 . 8 . 8
2nd DNS Server	0 . 0 . 0 . 0
Use PPPoE	<input type="checkbox"/>
PPPoE Username	
PPPoE Password	

Fig 3-35

User can set the device’s HTTP port and server port. If DHCP function of router is enabled, selecting “Use DHCP” will automatically obtain IP address, subnet mask and gateway from the router. Using DDNS function outside this area needs to set the address of DNS server as their local DNS address. Enable PPPoE dial-up function, user needs to enter the user name and password of ADSL dial-up obtained from the internet service provider.

Note: You may want to use a different port than the default HTTP port 80. If so, you need to configure your DVR to use the port you want. After configured, remember that you have to specify its port number in the URL (e.g. if you select port 88, you access it using <http://192.168.1.10:88>).

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.6.2 Sub Stream

Enter into “Config”→Remote Config→Network→Sub Stream; refer to Fig 3-36:

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example.



Fig 3-36

Select the sub-stream parameters of each channel according to the following table.

Table 3-4

Parameter	Meaning
Resolution	The range of options: synchronize with configured device,
Fps	The range of options: synchronize with configured device. (Resolution and frame rate are determined by the parameter specifications of specific type)
Encode	Two options: VBR and CBR
Quality	The higher the grade is, the clearer the previewing image is. Six grades: lowest, lower, low, medium, higher and highest.
Max Bitrate	The range of options: synchronize with configured device.

Sub stream configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.6.3 DDNS

Enter into “Config”→Remote Config→Network→DDNS; refer to Fig 3-37:

Enable DDNS

Upload Update Period (Minutes)

DDNS Server Address

Ddns Username

Ddns Password

Server Host Domain

Fig 3-37

Bind the device with a fixed domain name, so that user can visit the device no matter how the public IP changes. Enable DDNS function, select the upload update period and DDNS server address, enter the user name, password and host domain name registered in DDNS server, such as MyDVR.no-ip.org.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.6.4 Mail

Enter into “Config”→Remote Config→Network→Mail; refer to Fig 3-38:

Smtplib Server Port

Enable SSL

SMTP Server

Mail Address

Password

Receive Address 1

Receive Address 2

Receive Address 3

Fig 3-38

SMTP Server Port: Port number of SMTP server, usually is 25, or it may be 587, 993 or 465, etc.

Enable SSL: Enable mail encryption function.

SMTP Server: Outgoing Mail Server Address. Mail server addresses are different for different Email service providers, e.g. the SMTP server of 163 mailbox is smtp.163.com, the SMTP server of Gmail mailbox is smtp.gmail.com.

Mail Address / Password: Sender’s email address / password.

Receive Address: Receiver’s email address. Here user can add three mail addresses at most.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.

3.5.6.5 Network Status

Enter into “Config”→Remote Config→Network→Network Status.

In this interface, user can view the HTTP Port, Server Port, IP Address and other network information.

3.5.7 P.T.Z Configuration

Enter into “Config”→Remote Config→P.T.Z→Serial Port; refer to Fig 3-39:

The number key at the top left shows the channel number; it is related to the device model. This figure takes the 4ch device for example.

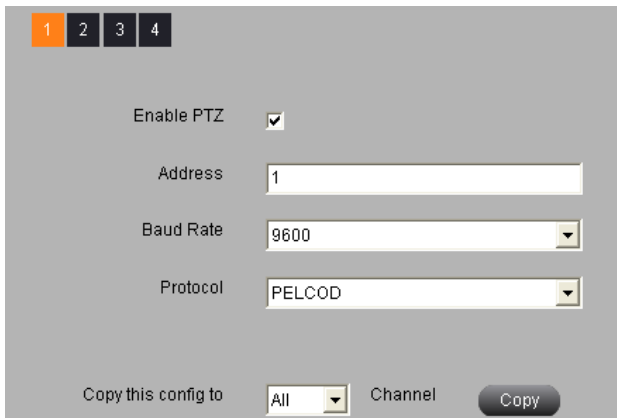


Fig 3-39

Enable P.T.Z control of any channel; select the correct PTZ settings according to the external communication device, the meaning of PTZ parameters is shown in the table below.

Table 3-5

Parameter	Meaning
Address	Address of the PTZ device; the default is 1
Baud Rate	Baud rate of the PTZ device; synchronize with configured device
Protocol	Communication protocol of the PTZ device; synchronize with configured device

Serial port configuration can be copied to the other channel. Click “Copy” button to copy the specified channel settings to other channel or all channels.

Click “Default” button to restore the default setting; click “Apply” button to save the setting.


3.5.8 Account Management

Enter into “Config”→Remote Config→Account→Edit Account. The interface lists the name, group and Mac address of all users who can log onto the device for operation. Refer to Fig 3-40:

User	Group	Mac Address
admin	Administrator	00-00-00-00-00-00
test	Advance User	00-00-00-00-00-00

Fig 3-40

3.5.8.1 Add Account


Step1: Click  button to enter the edit new user interface. Enter the new user's name and password; select user type: Advance User or Usual User; enable this user; or tick off “Bind Mac Address”, input the MAC address of the PC as required.

Step2: Assign the appropriate user right for that user.


Step3: Click OK button to add this user into the user list; click Cancel button to exit the current interface.

Note: *When the value of binding PC MAC address is 0, user is not binding with the specified computer; if you set the binding Mac address for the user, only the PC with this Mac address can visit the device through network.*

3.5.8.2 Modify Account


In the account management interface, select a user in the account list, click  button to modify user type, binding PC MAC address and user authority.

3.5.8.3 Delete Account

In the account management interface, select a user in the account list, click  button to delete this account.

Note: The administrator cannot be modified and deleted.

3.5.8.4 Modify Password

In the account management interface, select a user in the account list, click  button, then input the old password and a new password, click OK button to modify the password of this account; click Cancel button to exit the current interface.

3.5.9 Advanced

Advanced configuration includes two submenus: import/export and reboot.

3.5.9.1 Import / Export

Enter into “Config”→Remote Config→Advanced→Import/Export. User can set the path of import and export, export the data files into PC as backup function, or import specified data files from PC to DVR.

3.5.9.2 Reboot

Enter into “Config”→Remote Config→Advanced→Reboot. Reboot takes about 1 to 2 minutes. iCube will reconnect device automatically after rebooting.

Note: Here take DVR as an example to introduce Chapter 3.5 Remote Config. User can also refer to the DVR User Manual for configuring DVR remotely.

Note: When using iCube to configure IP Camera remotely, user can refer to the IP Camera User Manual.

Note: When using iCube to configure Network High Speed Dome remotely, user can refer to the Network High Speed Dome User Manual.

3.6 User Manage

Enter into “Config”→User Manage; refer to Fig 3-41:

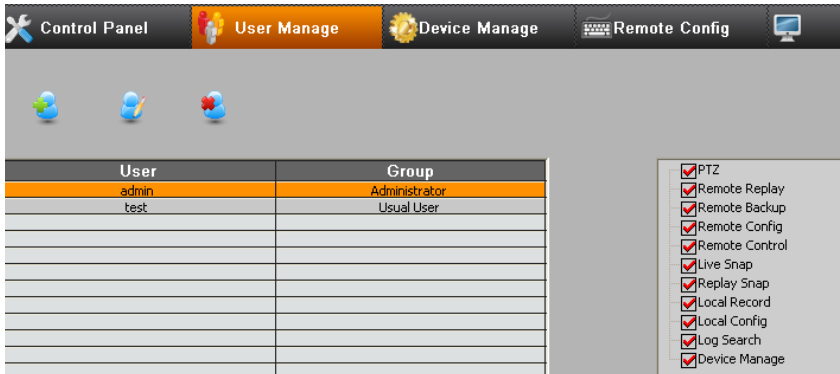


Fig 3-41

The interface lists all users who can log onto the iCube for operation. Usual users can only modify their own password, administrator can add, edit and delete other users, and set permissions for usual users.

Click add button, enter the user name and password, click OK button to add this user into the list; click Cancel button to exit the current interface.

Select a user in the user list, click edit button to enter the edit user window. If you select administrator, user can modify the password; if select usual users, user can only reset the password to null.

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

Note: The administrator cannot be deleted.

















Note: The account in account management can log onto the device for operation. The user in user management can log onto the iCube for operation.

Chapter 4 - Remote Surveillance

4.1 Status Icons

The following table introduces you the status icons and their meanings:

Table 4-1

Icon	Meaning
	Area icon
The icon in the front of device:	
 A	Light gray indicates that the device is not
 test	Dark gray indicates that the device is
The icon in the front of channel:	
 channel 01	Light gray indicates that the preview
 channel 01	Dark gray indicates that the preview
 channel 01	Red indicates that the channel is recording
The icon in preview window:	
	Manual record
	Schedule record
	Sensor alarm record
	Motion detection record
	Motion detection
	Sensor alarm
	PIR alarm
	Video loss
	Open audio
	Open intercom

4.2 Live Preview

After adding and configuring the device, click “Live” button in the menu bar to enter the preview interface, as shown in Fig 4-1. (Refer to Chapter 3.3 Device Manage, Chapter 3.4 Local Config and Chapter 3.5 Remote Config for adding and configuring devices)

User can open 128 channels of real-time video monitoring, preview 64 channels on the screen at most, and control PTZ, adjust color, record, snap, etc.

4.2.1 Interface Introduction

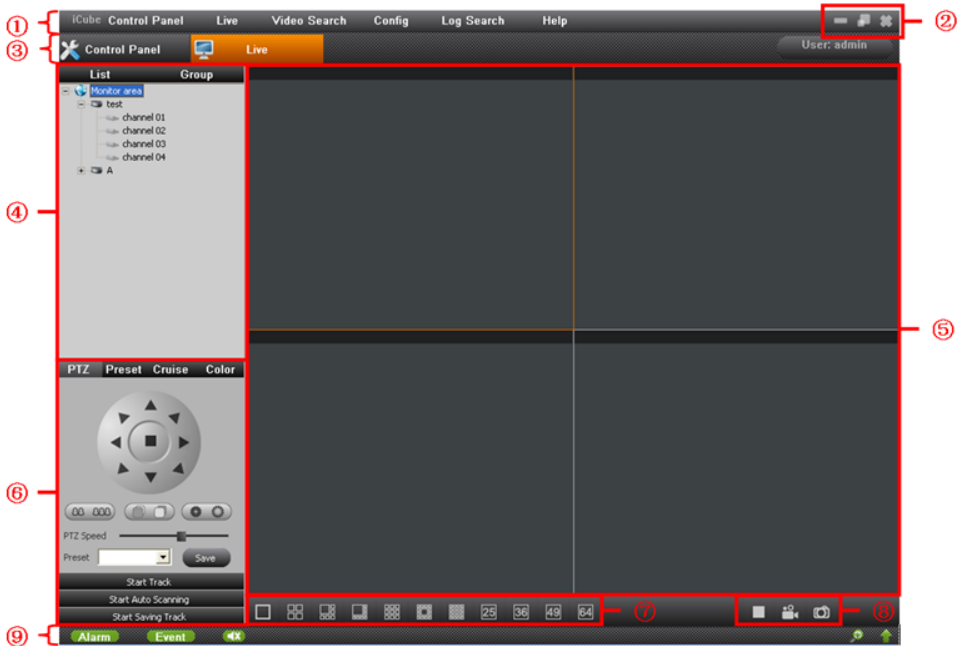


Fig 4-1

- ① Menu Bar
- ② Toolbar
- ③ Tab Bar
- ④ Device Area

Click “List” and “Group” to switch between two modes. The description of display modes is shown as table 4-2:

Table 4-2

Mode	Description
------	-------------

List	Display by list
Sort by group	Display by group

⑤ Preview Area

It can be split into 64 play windows at most according to the screen display mode. Click on the window you want to set as the currently active window.

□ Control Button Area

It contains the PTZ control panel and Color adjustment panel. User can refer to Chapter 4.2.5 PTZ Control and 4.2.6 Color Adjustment.

⑦ Display Mode Selection Area



Fig 4-2

- The preview area can be split into 1/4/6/8/9/13/16/25/36/49/64 play windows.
- The number before "/" means the group number of current preview screen in the present display mode. The number after "/" means the total number of preview groups in the present display mode.
- Press the current display mode button again to switch the preview group.

⑧ Basic Functional Button

- Click Close All Preview button to close all preview windows.
- Click Start Record button to start manual recording, click again to stop recording.
- Click Snap button to snap current image.

⑨ Alarm and Event Info Area

Note: Some functions of live preview are the same as control panel and not repeat them here. User can refer to Chapter 3.2 Control Panel.

4.2.2 Preview Mode

- 1) Double-click the channel
Click a play window, and then double-click the channel in the device area to preview the real-time video in the active window.
- 2) Drag the channel
Drag the channel from the device area to the play window.

3) Right-click menu

Right-click the channel or device in the device area, select “Open” in the right-click menu to preview the real-time video.

4.2.3 Stop Previewing


1) Close preview window

Right-click the play window to pop up a pull-down menu, click “Close Preview” to close this preview window.

Or right-click the channel or device in the device area, select “Close” in the right-click menu to stop previewing.

2) Close all preview windows

Right-click the play window to pop up a pull-down menu, click “Close All preview” to close all preview windows.

Or click  button to close all preview windows.

4.2.4 Preview Control

Images can drag to any place for display in the preview area.

Double-click the play window to zoom in to the video, double-click again to return to the previous interface.

The example diagram of live preview is shown below:

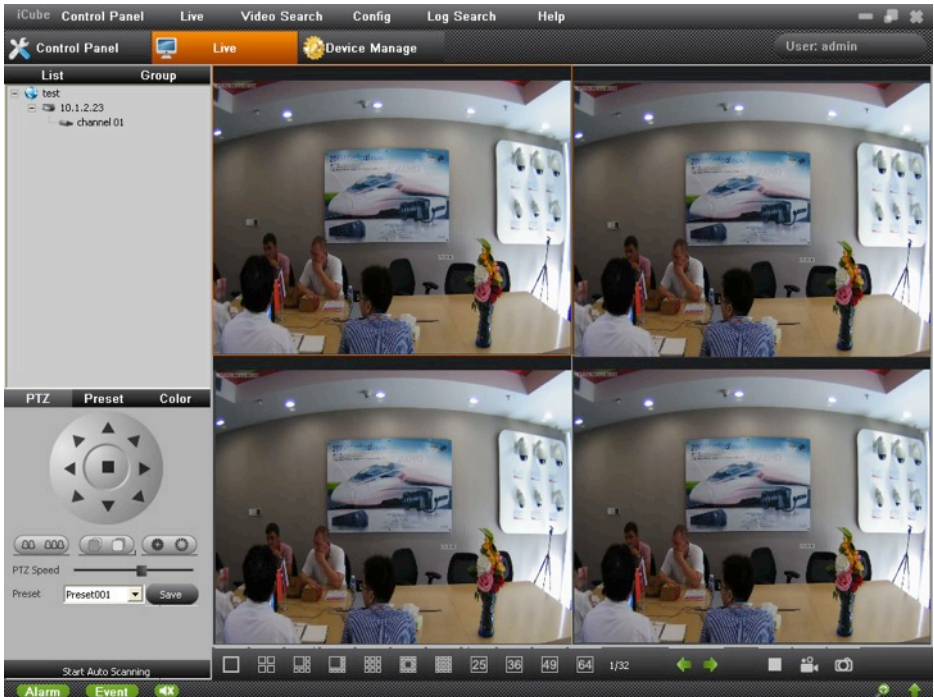


Fig 4-3

- 1) Right-click the play window to pop up a pull-down menu; refer to Fig 4-4(a):



Fig 4-4(a)

Close Preview: Close preview window of the active window.

Close All Preview: Close all preview windows.

Master / Sub Stream: Set the channel as master stream or sub stream. Master stream is HD channel with higher frame rate, but it needs higher network bandwidth; sub stream is SD channel with low frame rate, it requires low network bandwidth.

Open Audio: Enable or disenable the sound of live video.

Note: *iCube can only open one channel's audio at the same time. If user enables the sound of next channel, it will disable the sound of previous channel automatically.*

Start Record: Start manual recording, click again to stop recording.

Full screen: Display the video in full-screen, and the tool bar will be hidden; double-click left mouse button or click right mouse button to exit full screen mode.


Note: *Recording and capture picture are available only when its preview channel is open.*

- 2) Right-click the channel in the device area to pop up a pull-down menu; refer to Fig 4-4(b):



Fig 4-4(b)

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

Start Record: Start manual recording of channel; the icon is changed to , "Start Record" is changed to "Stop Record"; click "Stop Record" to stop recording.

Master / Sub Stream: Set the channel as master stream or sub stream.

Note: *When the real-time preview of channel is not open, "Start Record", "Master Stream" and "Sub Stream" are invalid.*

- 3) Right-click the device in the device area to pop up a pull-down menu; refer to Fig 4-4(c):

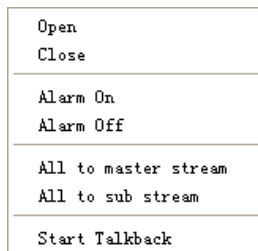



Fig 4-4(c)

Open / Close: Open / close the real-time preview of all device channels.

Alarm On/Off: Enable this function to get the alarm information from device and give prompts actively. Click Alarm Off to close this function.

All to master / sub stream: Set all channels as master stream or sub stream.

Start Talkback: Audio talkback switch. Click this button to perform the talkback between PC and device; the device icon is changed to  after enable audio talkback, and “Start Talkback” is changed to “Stop Talkback”; click "Stop Talkback" to stop talkback.

4.2.5 PTZ Control

When the device is connected to PTZ or communication device, user can control PTZ via PTZ control panel.

1) PTZ

Refer to Fig 4-5.

User can control the dome rotates up, up left, left, left down, down, right down, right, up right and stop rotating; drag the slider to adjust the rotate speed; zoom, focus and iris are adjustable; select the serial number of preset point, which allows up to 128 presets to be included, then click “Save” button to save the preset position.

Click “Start Saving Pattern” button to record the track of PTZ movements, click this button again to stop recording; click “Start Pattern” button to play recorded pattern, click this button again to stop playing; click “Start Auto Scanning” button to start auto scan, click this button again to stop scan.



Fig 4-5


Note: PTZ control is effective not only for the device with PTZ but also for the user who has PTZ control permission, otherwise PTZ buttons are invalid.


2) Preset

Click "Preset" tab of PTZ control panel, it supports 128 PTZ preset points; refer to Fig 4-6:

No.	Preset
1	preset001
2	preset002
3	preset003
4	preset004
5	preset005
6	preset006
7	preset007
8	preset008
9	preset009
10	preset010
11	preset011
12	preset012
13	preset013
14	preset014
15	preset015
16	preset016
17	preset017

Fig 4-6

Select a preset point, click Run  button, PTZ rotates to the position of that preset.

Click Modify  button to enter the Setup Preset window, as shown in Fig 4-7. User can set the preset points displayed in the list, and modify the serial number and name of preset, click "Apply" button to confirm the change.

Check	No.	Preset
<input checked="" type="checkbox"/>	1	preset001
<input checked="" type="checkbox"/>	2	preset002
<input checked="" type="checkbox"/>	3	preset003
<input checked="" type="checkbox"/>	4	preset004
<input checked="" type="checkbox"/>	5	preset005
<input checked="" type="checkbox"/>	6	preset006
<input checked="" type="checkbox"/>	7	preset007
<input checked="" type="checkbox"/>	8	preset008
<input checked="" type="checkbox"/>	9	preset009
<input checked="" type="checkbox"/>	10	preset010
<input checked="" type="checkbox"/>	11	preset011




Fig 4-7

3) Patrol

Click "Patrol" tab of PTZ control panel, it supports 8 patrols; refer to Fig 4-8:

PTZ	Preset	Patrol	Color
No.	Patrol Pathname		
1	Patrol		
2	Patrol		
3	Patrol		
4	Patrol		
5	Patrol		
6	Patrol		
7	Patrol		
8	Patrol		

Fig 4-8

- a) Select a patrol line and click Run  button; PTZ rotates on a timed interval, in accordance with the configured preset sequence; click Stop  button to stop PTZ patrol.
- b) Click Add  button to enter the Setup Patrol window, as shown below:

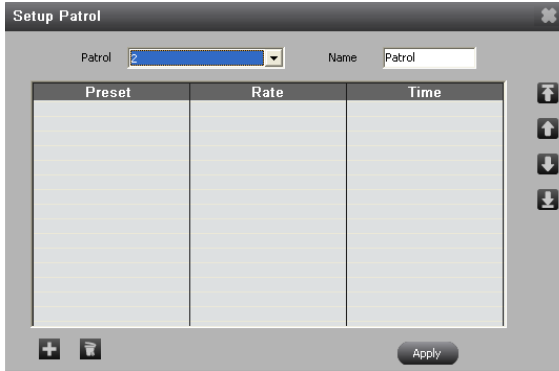


Fig 4-9








User can set the number and name of cancel adding. the patrol line. Click Add  button to select the patrol's preset, and its speed rate, time; as shown on the right. Click OK button to add this preset to patrol, or click Cancel button to



Fig 4-10

Select a preset in the Setup Patrol window, click Delete  button to delete that preset, and click     button to adjust the position of selected preset. Click “Apply” button to save the setting; click  button to exit current interface. As shown below:

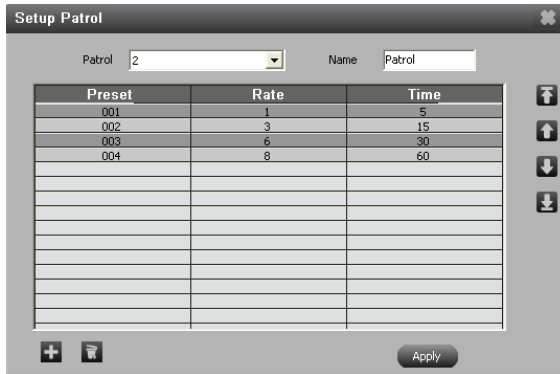






Fig 4-11

- c) Select a patrol line, then click Modify  button to modify the settings of that patrol line.
- d) Select a patrol line, then click Delete  button to delete it.

4.2.6 Color Adjustment

Click “Color” tab of PTZ control panel, user can drag the slider to adjust the parameters of active window, including brightness, hue, saturation and contrast.

Click  button to restore the default setting; click  button to save the

adjustment. Refer to Fig 4-12:

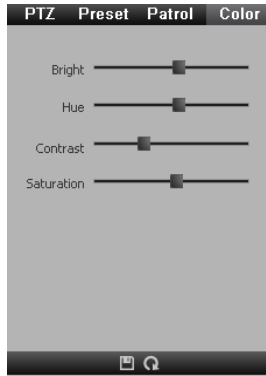


Fig 4-12

4.3 Video Search

Click “Video Search” button in the menu bar to enter the search mode. Video search includes four submenus: Time Search, File Manage, Event Search and Remote Backup.

Note: *User can only search for channels on a device once. When users search for other device, it will clear the selected state of previous search device.*

4.3.1 Time Search

Step1: Enter into “Video Search”→Time Search.

Step2: Select the device and channels which need to search video.

Step3: Select a date, the date shown in yellow in the calendar means have record data.

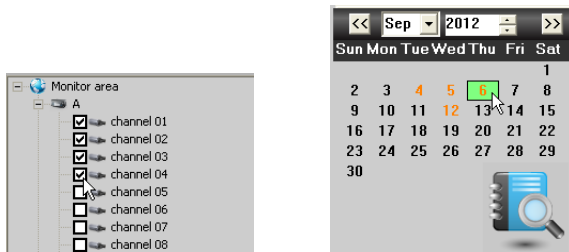



Fig 4-13

Step4: Press Search  button, the searched record information will be displayed

in the timeline panel; refer to Fig 4-14:



Fig 4-14

Step5: Place the cursor to time grid to display the video time, double-click the time grid to set the playback time, "Start Time" shows the playback start time.

Note: *The vertical column means hours, the horizontal column means channels.*


Step6: Click Play  button to playback record from the selected time.





Fig 4-15

Step7: Right-click the playback window to pop up a submenu, user can open audio and full screen display; double-click the playback window to amplify the video; click the relevant buttons on the screen to do operation. The range of options synchronizes with configured device; refer to Fig 4-16:



Fig 4-16 Playback toolbar

- (1) Start time
- (2) Playback progress prompt
- (3) play/pause
- (4) Stop
- (5) Next frame
- (6) Rewind; click  to pop up the selection box of rewind progress
- (7) Fast forward; click  to pop up the selection box of fast forward progress

- (8) Last segment of record
- (9) Next segment of record
- (10) Play process
- (11) Full screen; click this button to full screen display the playback panel, double-click to restore
- (12) Snap
- (13) Screen display mode
- (14) End Time

4.3.2 File Manage

Step1: Enter into “Video Search”→File Manage.

Step2: Select the device and channels which need to search video.

Step3: Select a date, the date shown in yellow in the calendar means have record data.

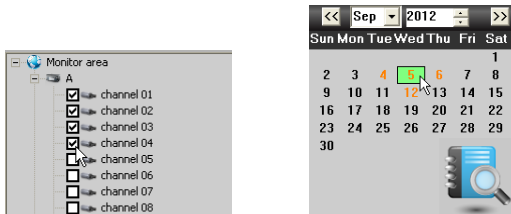



Fig 4-17

Step4: Press Search  button, the searched file information will be displayed in the file list; refer to Fig 4-18.

Step 5: Select the file to lock, unlock or delete.

Lock: Select a file and click “Lock” button, then click OK button in the pop-up message box to lock this file, after that, that file will not be deleted or covered.

Once the file is locked, it will not be hidden or deleted, but format will clear the locked file.

Unlock: Select a locked file and click “Unlock” button, then click OK button in the pop-up message box to unlock this file.

Delete: Select an unlocked file and click “Delete” button, then click OK button in the

pop-up message box to delete this file.

Click “All”, user can lock/unlock or delete all files.

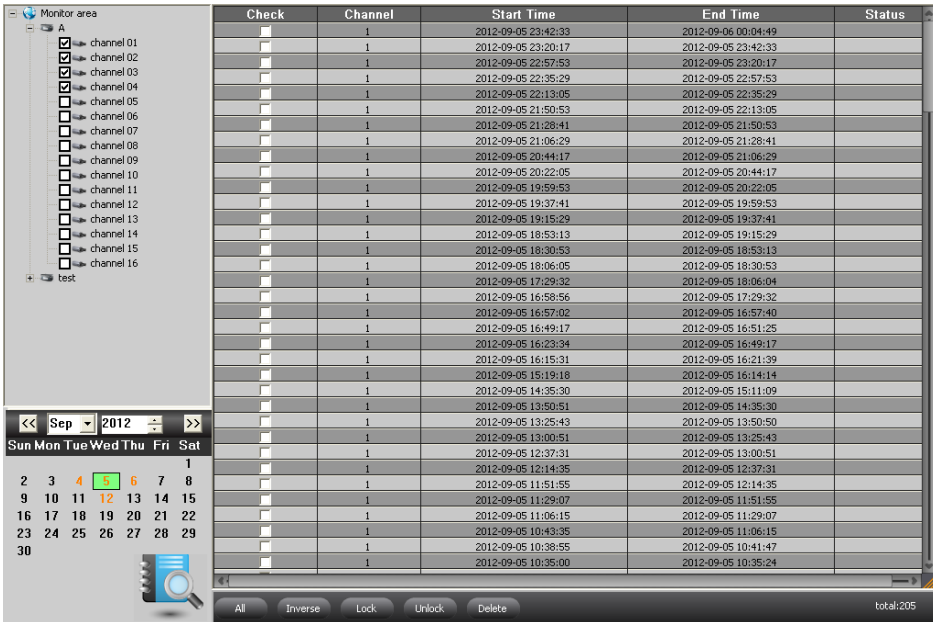


Fig 4-18

Step6: Double click a file to playback.

Step7: Click the relevant buttons on the screen to do operation. User can refer to Chapter 4.3.1 Time Search→Step7 for details.

4.3.3 Event Search

Step1: Enter into “Video Search”→Event Search.

Step2: Select the device and channels which need to search event information.

Step3: Select a date, the date shown in yellow in the calendar means have record data.

Step3: select a date and event type. The date shown in yellow in the calendar means have record data.

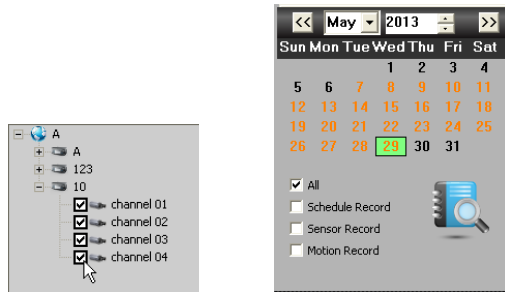


Fig 4-19


Step4: Press Search  button, the searched event information will be displayed in the event list; refer to Fig 4-20:



Fig 4-20

Step5: Double click an event file to playback.

Step6: Click the relevant buttons on the screen to do operation. User can refer to Chapter 4.3.1 Time Search→Step7 for details.

4.3.4 Remote Backup

Step1: Enter into “Video Search”→Remote Backup.

Step2: Select the device and channels which need to search data.

Step3: Select a date, the date shown in yellow in the calendar means have record data.

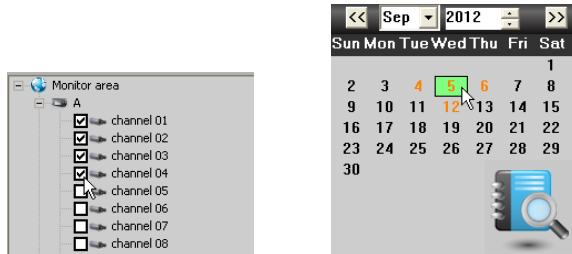



Fig 4-21

Step4: Press Search  button, the searched data information will be displayed in

the data backup list; refer to Fig 4-22:

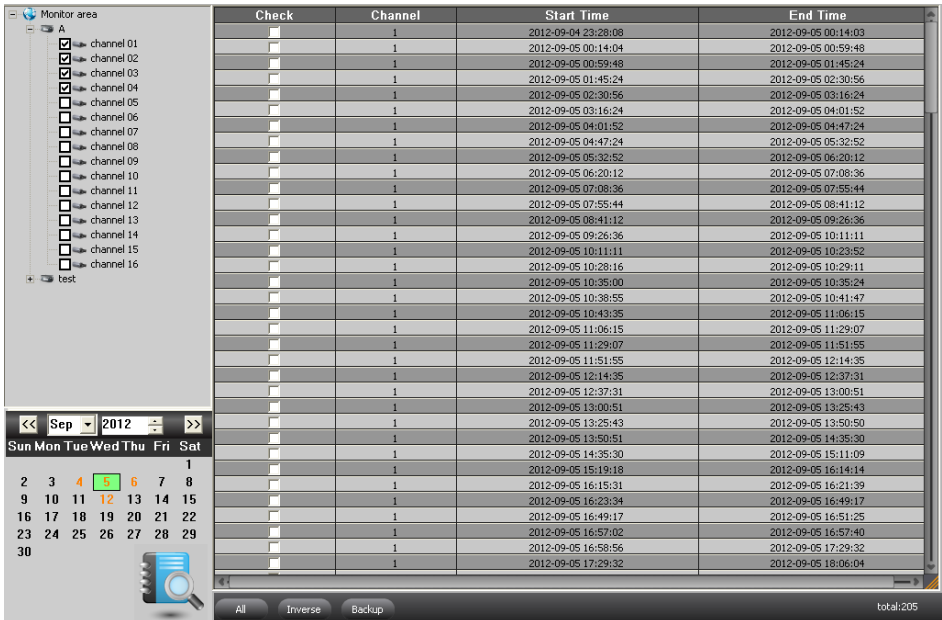


Fig 4-22


Step5: Select any data file or click “All” to select all data files, click “Backup” button to

backup.

4.4 Log Search

Step1: Click “Log Search” button in the menu bar to enter the log search interface.

Step2: Select the user, log type, and start & end time.

Step3: Press Log Search  button, the searched log information will be displayed in the log list; refer to Fig 4-23:

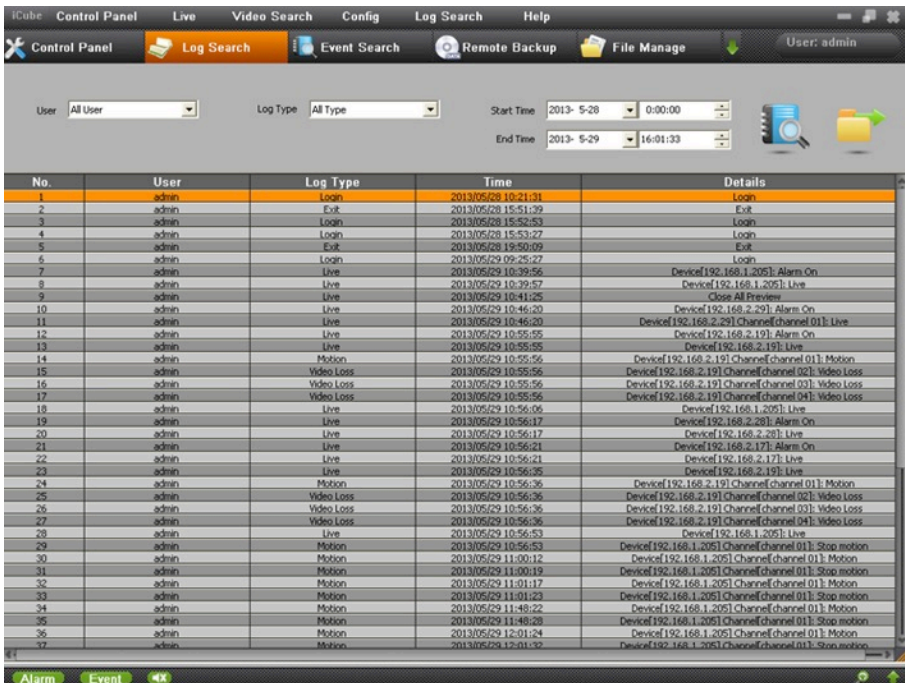



Fig 4-23

Step3: Click Export  button to open the Save As dialog box, select storage path of data export; click OK to start exporting data.

4.5 Help

4.5.1 User Manual

Enter into “Help”→User Manual to open the iCube electronic user manual for providing the convenient on-line help.

4.5.2 About

Enter into “Help”→About to pop up About iCube interface; refer to Fig 4-24. The window displays the version number of client software.

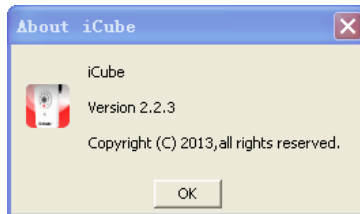


Fig 4-24

Appendix A – FAQ

1. Can't visit IP Camera or DVR via iCube Software.

- ✧ Possible Reason: Network is disconnected.
Solution: Connect your PC to network, checking whether it works properly or not. Check whether there is cable failure and network failure caused by PC virus, until PCs can be connected with the command of Ping.
- ✧ Possible Reason: IP Address has been occupied by other devices.
Solution: Stop the connection between device and Network, hook up the device to PC separately, and reinstall IP address according to the proper operations recommended.
- ✧ Possible Reason: IP addresses are in different subnets.
Solution: Check IP address, subnet masking address of the device and check the settings of Gateway.
- ✧ Possible Reason: Web port has been modified.
Solution: Contact Network Administrator to obtain the related information.
- ✧ Possible Reason: Unknown.
Solution: Restore the default settings and then connect it again.

2. The color of images is abnormal (green or other colors).

- ✧ Possible Reason: The settings of color adjustment are not properly.
Solution: Restore the default settings.

3. PTZ, Lens out of control.

- ✧ Possible Reason: Signal cable is not properly or correctly connected.
Solution: Reconnect the control cable that connects PTZ or dome camera to server.
- ✧ Possible Reason: Related decoder protocol, address or baud rate are not correctly.
Solution: Check whether the settings are correct.

4. An exception is started after reinstalling the software.

- ✧ Possible Reason: The previous version did not uninstall completely.
Solution: Select the installation path of previous version (the default path is C: \ Program Files) and delete “config” and “LogFile” in iCube folder, then reinstall iCube. If you delete the iCube folder, the previous configuration information will also be deleted.

5. There is no sound while monitoring.

- ✧ Possible Reason: No audio input connection
Solution: Check audio connection of the host
- ✧ Possible Reason: the audio option of device is disabled
Solution: Check audio parameter settings to open the audio

6. Audio Effects is poor.

Solution: Audio input device need to match the DVR.

Appendix B Revision History

This user manual (V1.2) is applies to the iCube V2.2.3.

V1.2 Modify Record

Item	Modification
1	iCube can add IP Camera, DVR and Network High Speed Dome
2	Synchronization the latest configuration of device
3	Add PIR alarm and Clear button in the Alarm Info Area
4	Add the selection of device type in the Add Device window
5	Event Search adds an event type
6	Update some pictures
7	Modify some descriptions and function names

V1.1 Modify Record

Item	Modification
1	"Help" add the User Manual option
2	Update some pictures
3	Add a FAQ
4	Modify a small amount of instructions