AIP-C Over IP Expansion Card for KVM Switch

AIP-C Over IP Expansion Card for KVM Switch User Manual

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AIP-C

AIP-C Over IP Expansion Card for KVM Switch

Specifications:

- Adopts KVM over IP technology
- Expedient bandwidth control for video transmission
- IP connection for flexible centralized management
- Supports multiple users and devices without complex reconfiguration
- Client-side software for rich administrative control
- Data encryption for network transport safety
- BIOS-level connection compatible with various systems
- Supports remote key combination
- **Network transmission**: 10M/100M/1000M
- **Remote resolution**: 1920×1080@60HZ
- Supports screen zoom function
- Web UI for easy access under different operating systems
- Supports remote online update

Product Usage Instructions

Hardware Installation:

1. Connect the KVM device to the network.
2. Ensure the default IP address is set to 192.168.0.10.

Download and Installation of Software:

1. Locate the software folder on the attached CD.
2. Follow the installation steps to install the software successfully.
3. Connect the product to the network.

Mouse Settings:

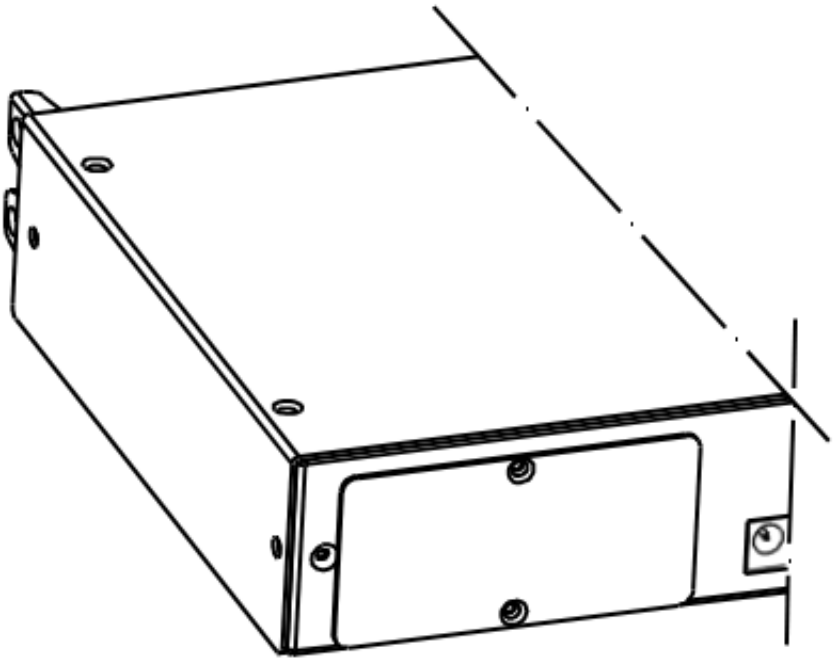
To adjust mouse settings, access the client-side software and navigate to the mouse settings section. Here, you can configure the mouse behavior according to your preferences.

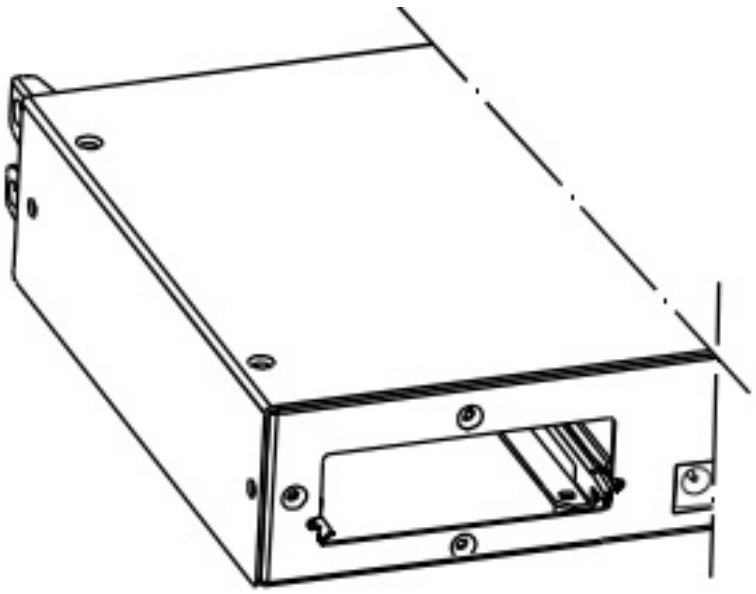
Product Features

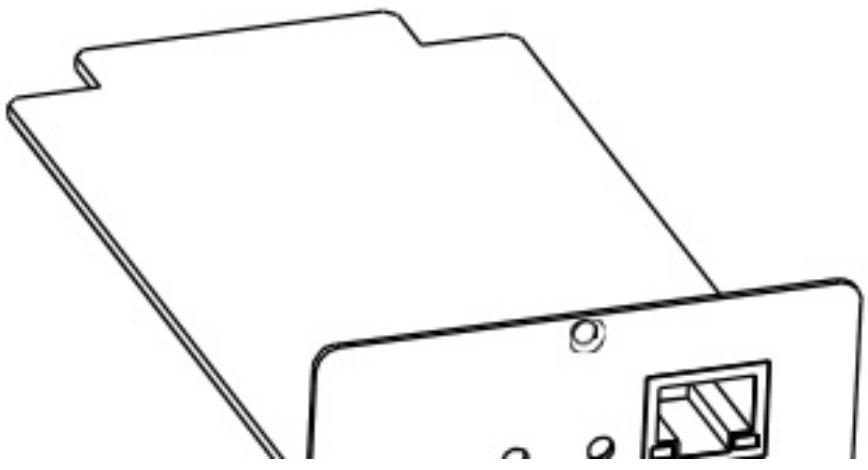
Our products adopt KVM over IP technology and make full use of existing Ethernet networks to replace dependence of special cables and signal systems.

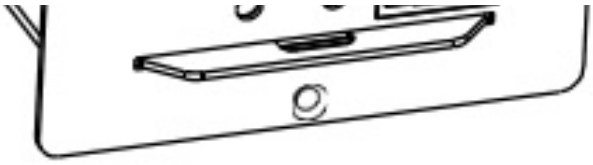
- Expedient bandwidth control can make adjustments of frame rate and code rate for video transmission to adapt to different network bandwidths, fully guarantee the transmission quality of the image.
- Because digital KVM signaling is based on IP agreement, the network administrator can use client applications to access in data center or anywhere in the world using one computer to control servers and other devices. It means can be added or changed any number of users and devices without any complex reconfiguration.
- Client-side soft can fully make use of IP technology to provide rich administrative control which including process sharing server status monitoring simulating multi-platform keyboards and centralized records.
- Multiple permissions settings to meet the use and operation of different users.
- Through the video transmission and data encryption of keyboard and mouse to ensure the safety of network transport.
- BIOS-level connection is not limited by the operating system, and is applicable to various servers, PC systems, and operating systems.
- Absolute synchronistical technologies of the mouse to ensure the operating accuracy of the window.
- Support remote key combination to send.
- 10M 100M 1000M network transmission.
- Remote resolution can reach to 1920×1080@60HZ. Support screen zoom function with arbitrary proportion.
- Base on WEB UI, convenient for customers to access under different operation systems.
- Support remote online updates.

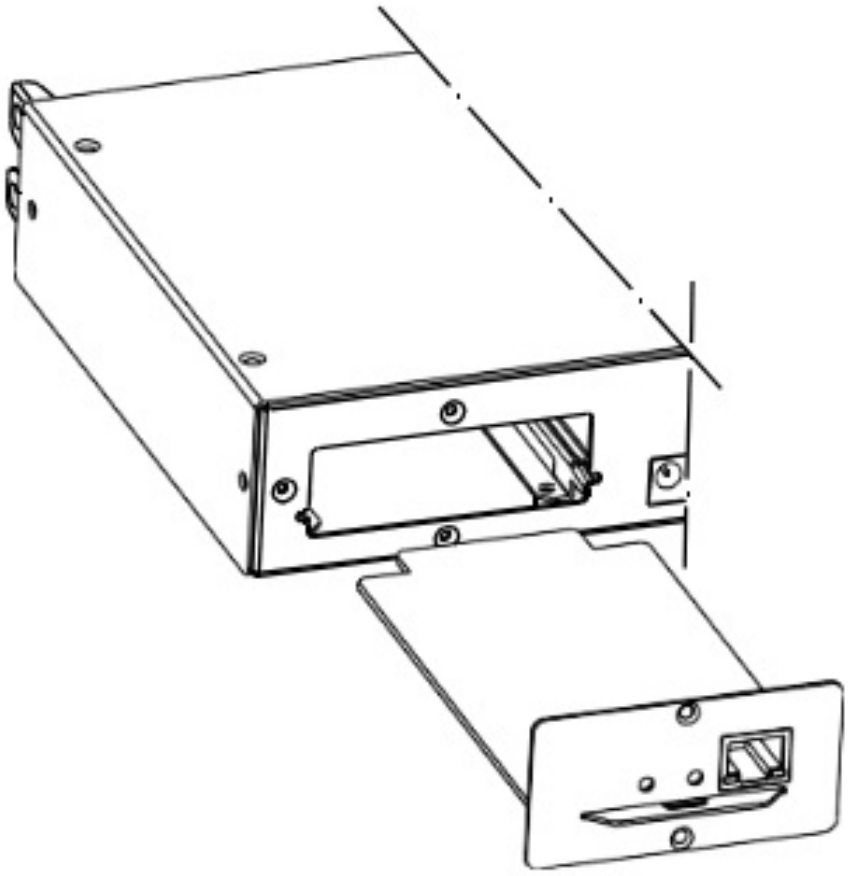
Hardware installation

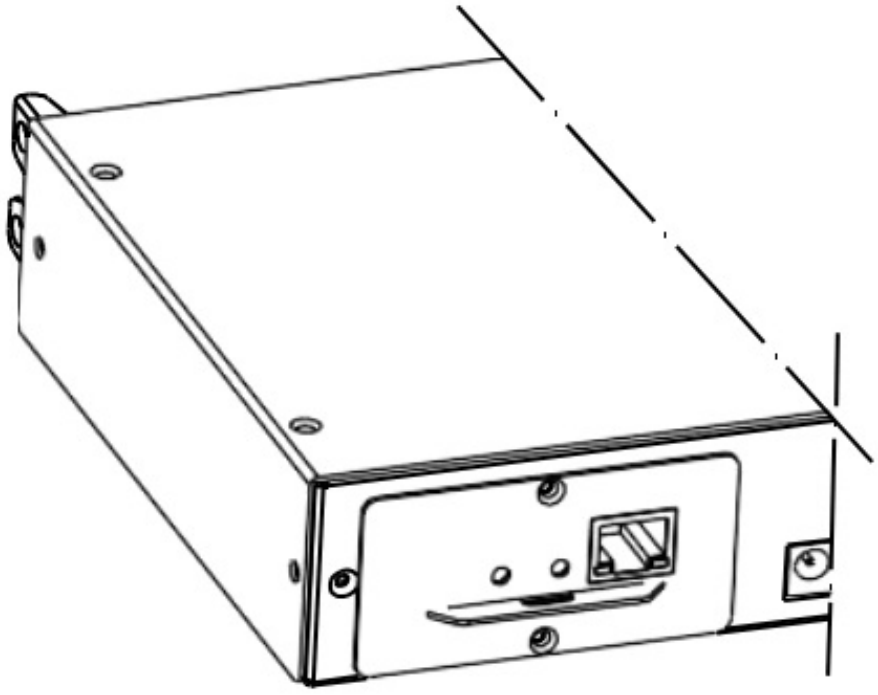












Download and install of software

In order to improve the operating efficiency of software and compatibility across the platform, adopt QT compile to avoid some software volume redundancy from Windows headers and libraries. Operating efficiency is more efficient, smaller volume and the memory is relatively small. And then finish the related function software need on the basis to ensure the server can operate more stable. The software sell with products and an attached installation CD. If need to add other related functions, it also makes information to meet your requirements. For details, please contact the vendors.

Download and install of software

1. The software was burned in the CD attached with the product.
2. Install as following steps

Find the folder “IP KVM” 

and install it successfully; then connect well all the devices; Plug in the product and connect to the network, the default IP address is: 192.168.0.10. Using one PC which in the same network segment and enter “https://192.168.0.10” in the browser and hit
ENTER to access.

Note: The Windows 10 and Windows 11 installation software must be authorized by the administrator. Otherwise, the software cannot be used normally

Mouse settings

Windows XP, Windows 2003 and Windows 2008 Settings

To configure KVM target servers running Microsoft. Windows XP. operating system, Windows 2003. operating system or Windows 2008. operating systems

1. Choose Start > Control Panel > Mouse
2. Click the Pointer Options tab
3. In the Motion group
4. Set the mouse motion speed setting to exactly the middle speed
5. Disable the “Enhance pointer precision” option
6. Disable the Snap To option
7. Click OK

Windows 7 Windows 10 Windows 11and Windows Vista Settings

To configure KVM target servers running the Windows Vista operating system

1. Choose Start > Settings > Control Panel > Mouse
2. Select “Advanced system settings” from the left navigation panel. The system properties dialog opens;
3. Click the Pointer Options tab;
4. In the Motion group
5. Set the mouse motion speed setting to exactly the middle speed;
6. Disable the “Enhanced pointer precision” option;

7. Click OK

To configure KVM target servers running Windows 7.

operating system

1. Choose Start > Control Panel > Hardware and Sound > Mouse;
2. Click the Pointer Options tab;
3. In the Motion group
4. Set the mouse motion speed setting to exactly the middle speed;
5. Disable the “Enhanced pointer precision” option;
6. Click OK

To configure KVM target servers running Windows 10.

operating system

1. Choose Start > Settings > Mouse.;
2. Click other mouse options.;
3. In the Motion group
4. Set the mouse motion speed setting to exactly the middle speed;
5. Disable the “Enhanced pointer precision” option;
6. Click OK

To configure KVM target servers running Windows 11. operating system

1. Choose Start > Enter Control. exe in the Application input box to open the Control Panel. ;
2. Click Hardware and Sound > On Devices and Printers > Mouse;
3. In the Motion group
4. Set the mouse motion speed setting to exactly the middle speed;
5. Disable the “Enhanced pointer precision” option;
6. Click OK

Windows 2000 Settings

To configure KVM target servers running Microsoft. Windows 2000. operating system

1. Choose Start > Control Panel > Mouse;
2. Click the Motion tab;
3. Set the acceleration to None;
4. Set the mouse motion speed setting to exactly the middle speed;
5. Click OK

To configure KVM target servers running Linux. (graphical user interface)

1. Choose Main Menu > Preferences > Mouse. The Mouse Preferences dialog appears;
2. Click the Motion tab;
3. Within the Speed group, set the Acceleration slider to the exact center;
4. Within the Speed group, set the Sensitivity towards low;
5. Within the Drag & Drop group, set the Threshold towards small;
6. Close the Mouse Preferences dialog;

Note: If these steps do not work, issue the set mouse 1 1 command as described in the Linux command line instructions

To configure KVM target servers running Linux (command line):

i. Set the mouse acceleration to exactly 1 and set the threshold to exactly 1. Enter this **command**: set mouse

This should be set for execution upon login;

To configure Red Hat servers using USB CIMs

1. Locate the configuration file (usually /etc/modules.conf) in your system;

Using the editor of your choice, make sure that the alias USB-controller line in the modules.

conf file is as follows

alias usb-controller usb-uhci

Note: If there is another line using usb-uhci in the /etc/modules.conf file, it needs to be removed or commented out;

1. Save the file;
2. Reboot the system in order for the changes to take effect.

Linux Settings (for Standard Mouse Mode)

Note: The following settings are optimized for Standard Mouse mode only;

To configure KVM target servers running Linux. (graphical user interface)

1. Red Hat 5 users, choose Main Menu > Preferences > Mouse Red Hat 4 users, choose System > Preferences > Mouse. The Mouse Preferences appear;
2. Click on the Motion tab;
3. Within the Speed group, set the Acceleration slider to the exact center;
4. Within the Speed group, set the Sensitivity towards low;
5. Within the Drag & Drop group, set the Threshold towards small;
6. Close the Mouse Preferences dialog. Note: If these steps do not work, issue the xset mouse 1 1 command as described in the Linux command line instructions;

SUSE Linux 10.1 Settings

Note: Do not attempt to synchronize the mouse at the SUSE Linux. login prompt. You must be connected to the target server to synchronize the mouse cursors.

To configure the mouse settings

1. Choose Desktop > Control Center. The Desktop Preferences dialog appears;
2. Click Mouse. The Mouse Preferences dialog appears;
3. Open the Motion tab;
4. Within the Speed group, set the Acceleration slider to the exact center position;
5. Within the Speed group, set the Sensitivity slider to low;
6. Within the Drag & Drop group, set the Threshold slider to small;
7. Click Close.

Sun Solaris Settings

To configure KVM target servers running Sun. Solaris.

1. Set the mouse acceleration value to exactly 1 and the threshold to exactly 1. This can be performed from
    - The graphical user interface
    - To configure the mouse settings (Sun Solaris 10.1)
2. Choose Launcher. Application Manager – Desktop Controls opens iii. Choose Mouse Style Manager. The Style Manager – Mouse dialog appears iv. Set the Acceleration slider to 1.0
3. Set the Threshold slider to 1.0
4. Click OK

IBM AIX 5.3 Settings

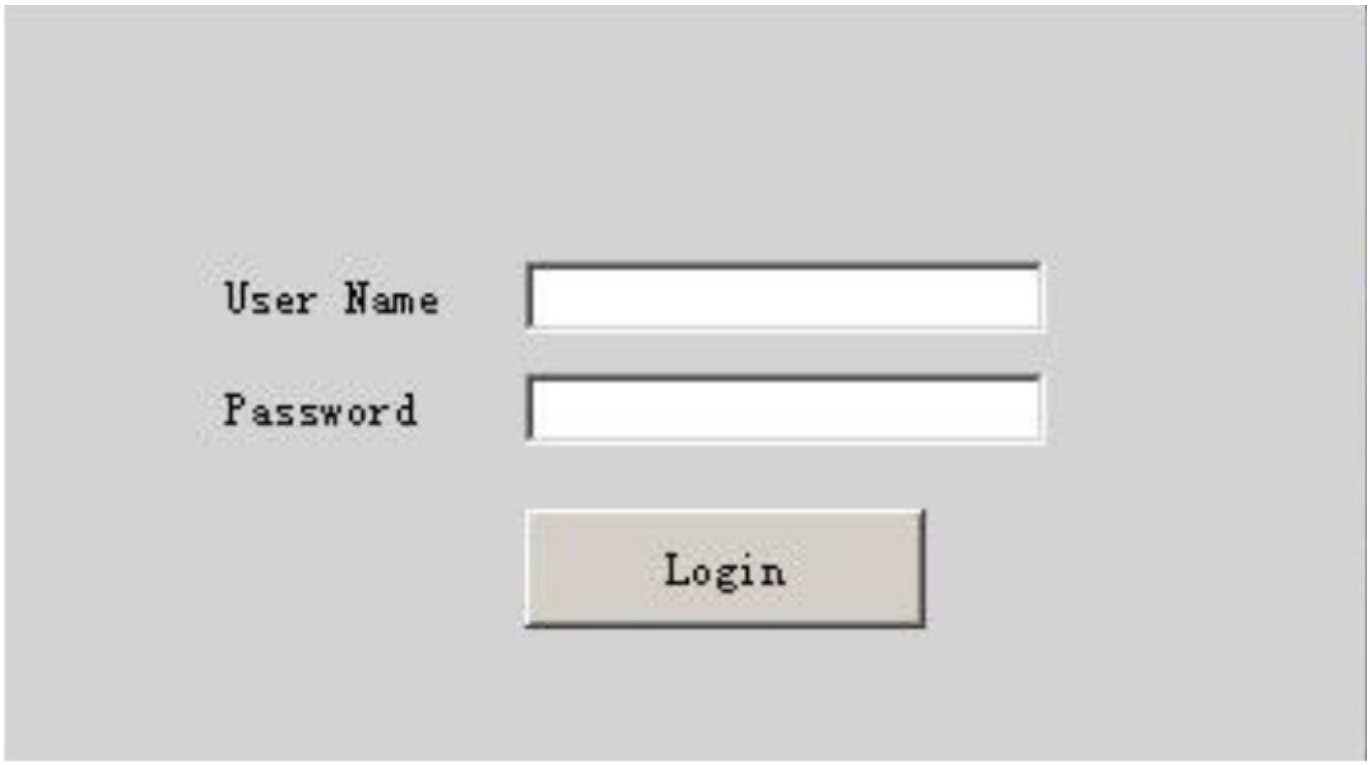
Follow these steps to configure KVM target servers running IBM. AIX. 5.3 To configure the mouse

1. Go to Launcher
2. Choose Style Manager
3. Click Mouse. The Style Manager – Mouse dialog appears
4. Use the sliders to set the Mouse acceleration to 1.0 and Threshold to 1.0
5. Click OK

WEB server operation

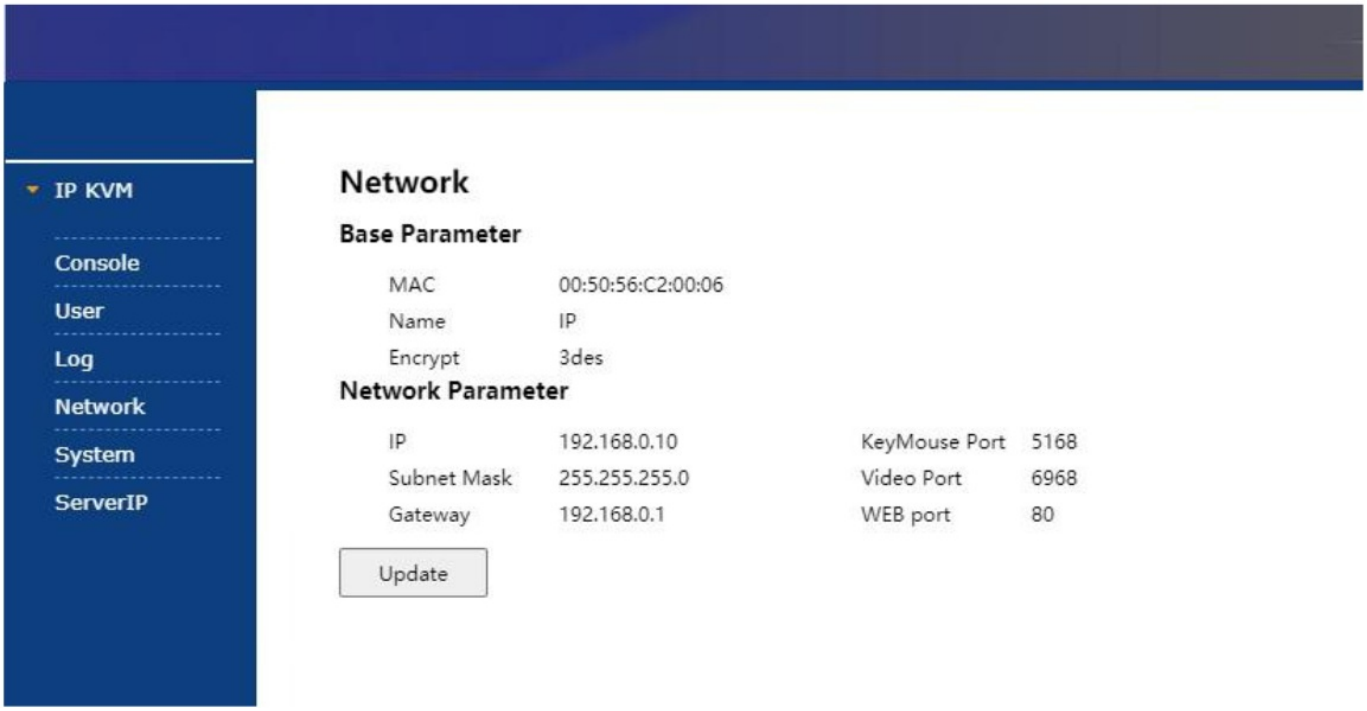
Login and use of WEB Server

Enter “https://192.168.0.10”in the browser and click ENTER to access and will appear below the interface. The default user name is admin, and the password is admin. Password can be revised after login



Operation instructions

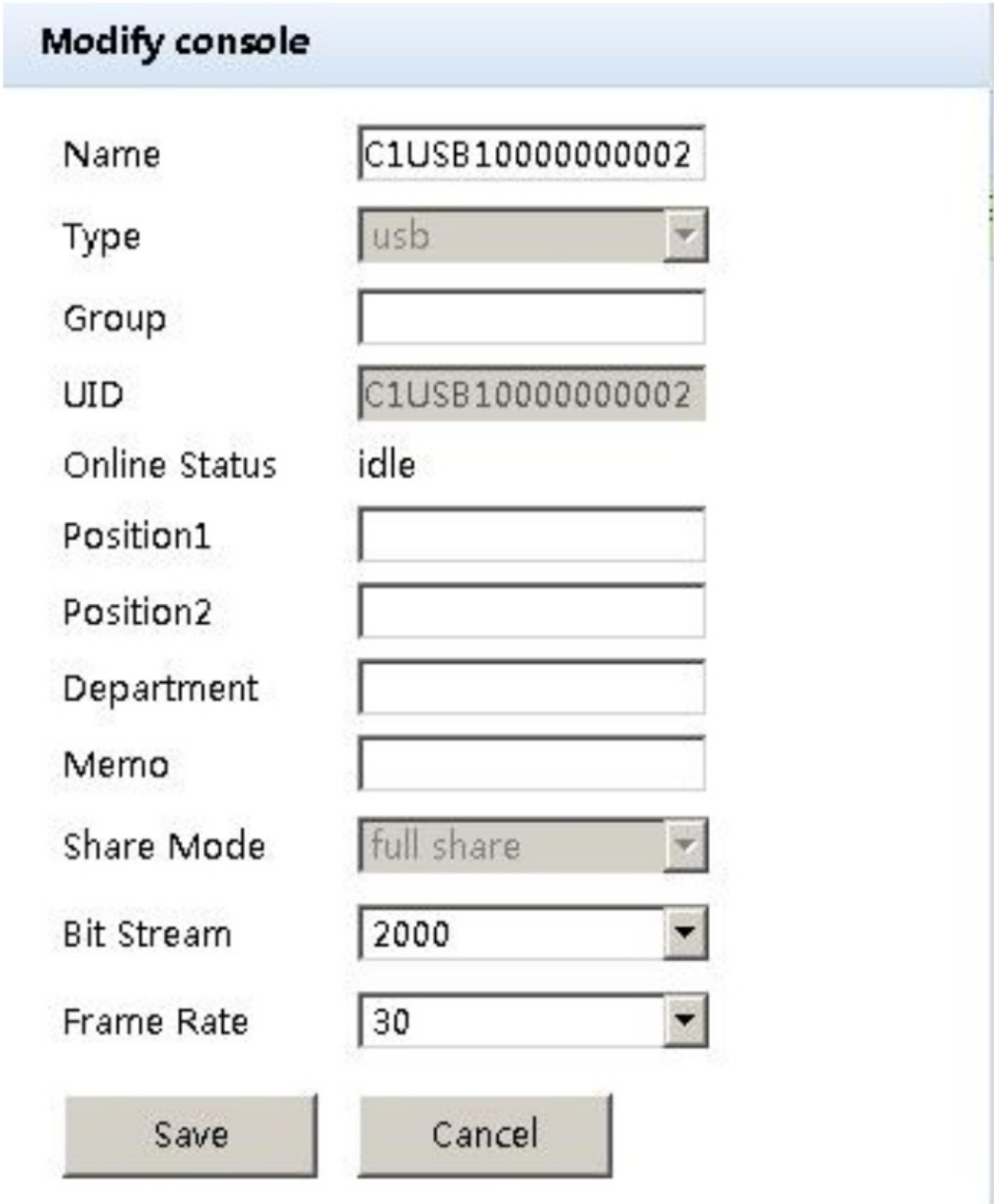
After login, the main interface will appear as below. Users can operate based on corresponding authority.



- **Five function options on the function line of the left of main interface:** Console, User, Log, Network, and System

Console: Click  on the left to modify the equipment description or register information, as below picture

Modify	PortID	Name	Type	Group	UID	Status	Client	Position1	Position2	Department	Memo
	1	C1USB1000000(	usb		C1USB1000000(	idle					



User: Mainly for user management, including three grades: Super Administrator(only one and couldn't be deleted), Administrator, User. User systems include three groups which can be made based on actual using conditions. Higher grade users can add, delete or modify lower grade users. It can be done by modifying as below picture.

Group and User

Group

Level	Group	Query	Modify
super	SuperAdmin		
administrator	Adminstrat		
normal	User		

User

Name	Group	Name2	Status	Memo	Query	Modify	Delete
admin	SuperAdmin	ADMIN	online				

Add User

Insert user

Base Parameter

Name
Password
Password Confirm
Group: User
Memo

Name2
Home Addr
Company Addr
Phone
Email
Memo2

Console Privilege

uid0 Use Modify

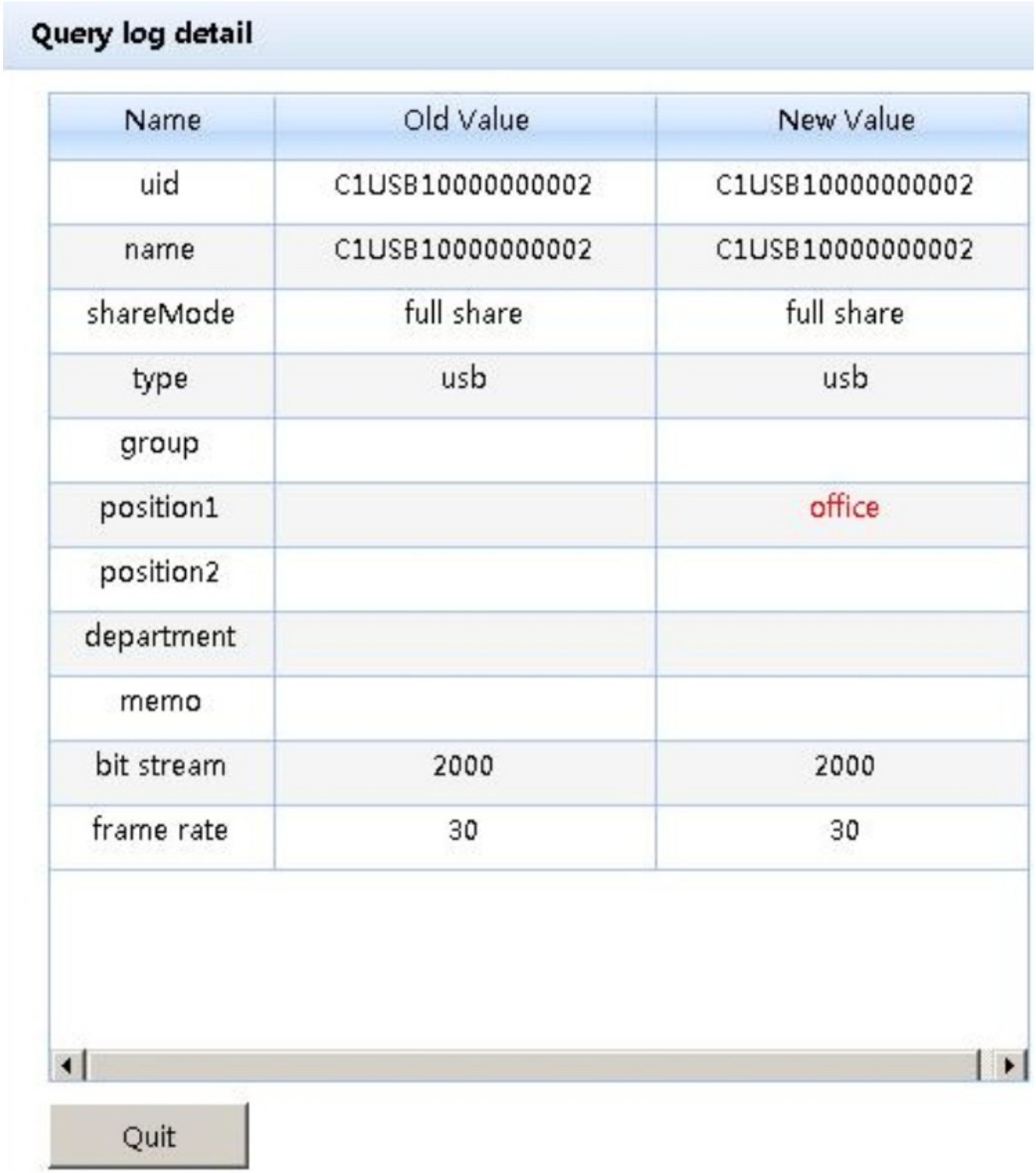
Save Cancel

Log: Support many kinds of log queries and log details as below.

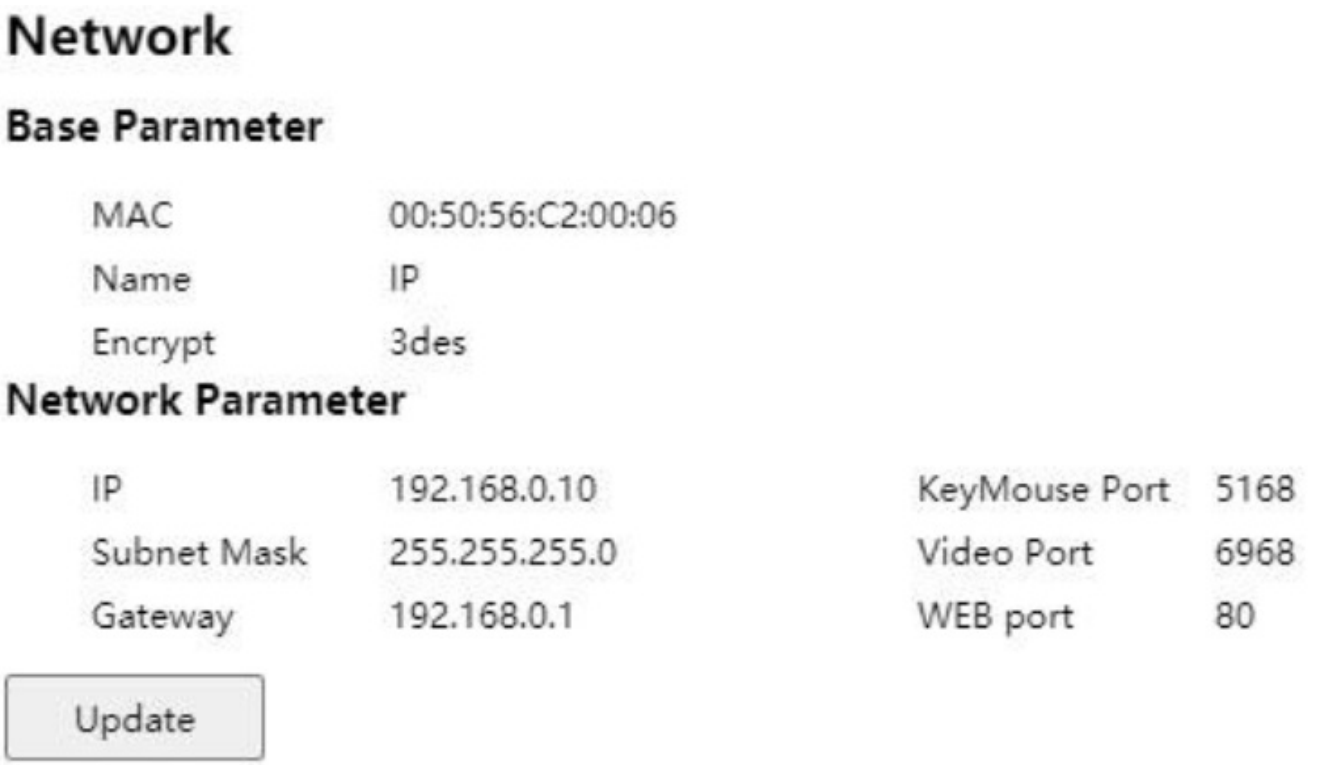
Log query

UserName Begin 2016-11-29 End 2016-11-30 Type All Query

User Name	Time	Ip	Type	Query
admin	2016-11-30 14:07:50	192.168.0.130	update console	



Network: Some information of the server like IP address, UID, name, etc, which can be modified.

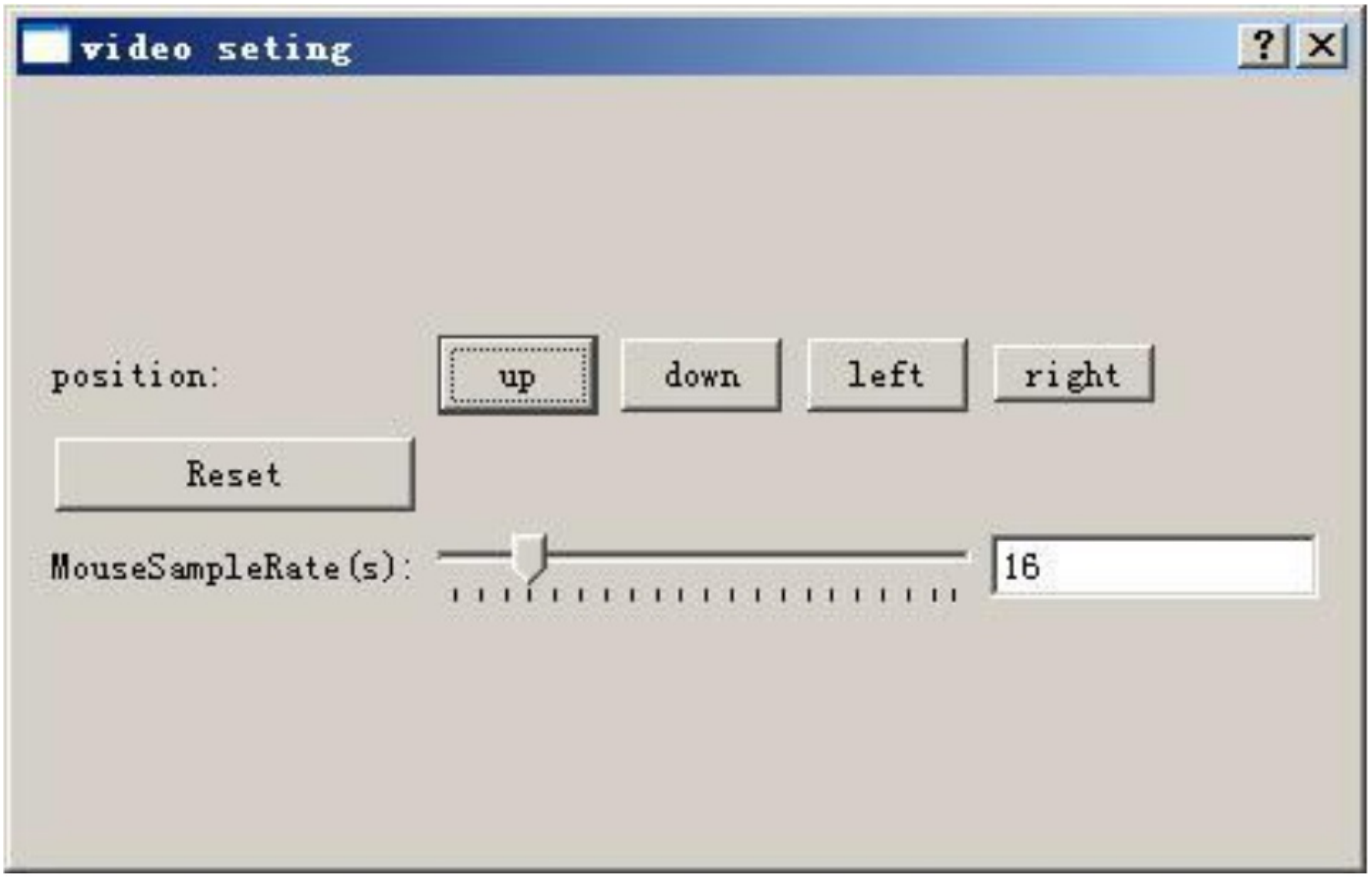


System: Time setting and online update of equipment system

Login

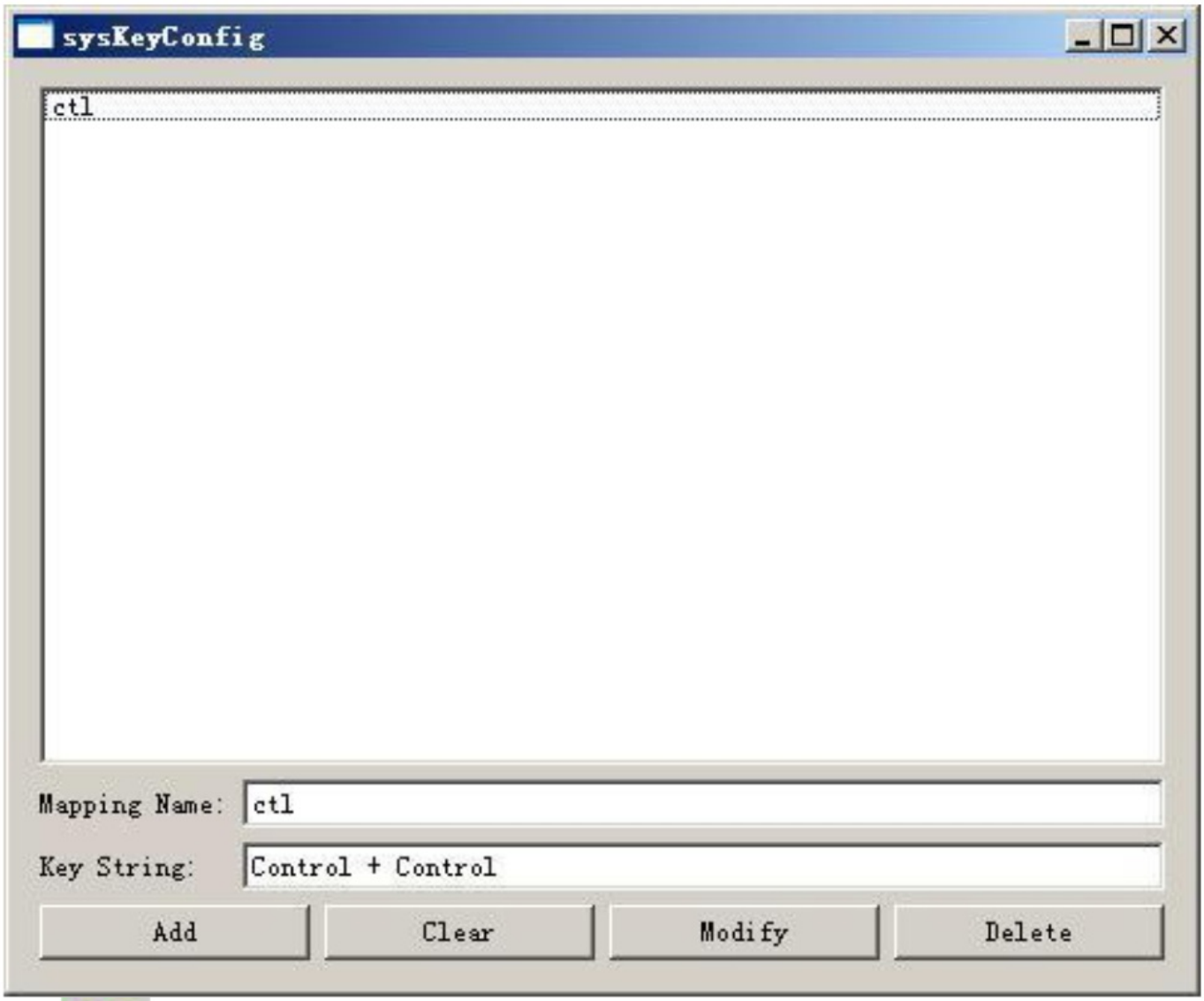
After login Console interface, click  ”image in the dongle interface for KVM session, as below.

International standard DES is used in this software to encrypt user data, to avoid data leakage, and to guarantee security. After login, the system will automatically calibrate the mouse. If it fails, please click  ”image on left to operate manually. Click  ”can make a display in full screen. If the mouse doesn’t work, please click  ”to get control authority in idle period of equipment and authority. Adjusting the display area of the screen can be done by clicking  ”, set as below picture. The screen can be moved around or reset to the initial setting. It can also be used when the display shows abnormality.



 is a hidden function of the mouse, the mouse can appear or hide by clicking it.

 ”is a remote hot-key edit button, a hot-key operation can be added in the pop-up dialog with the button clicked, as in below picture.



Click“  ”can choose the remote shortcut key directly to operate the controlled machine.

FAQs

What's the standard of connecting the network cable

The network interface of this item can connect WAN or LAN but please use the standard 568B twisted-pair network cable

What's the standard to use VGA connection cable

Please use special cable of the item for VGA signal port, and can't use other cables from other suppliers.

What's the initial configuration of the product

The default user name: admin, password admin, IP address:192.168.0.10

What's the maximum of users? How many users online at the same time

The maximum is 50 users and online is 5 users at the same time.

What's the maximum of logs and how to record for exceed

1000,it will cover the previous once exceed

How to take effect after changed new IP address

It will only take effect after you restart the device if you change the network of AIP-C (IP address and subnet mask).It not allowed to move the PC software during restart device. it only to wait for it to automatically

What's the difference between user permissions

Administrators have the highest permissions, an administrator will get the operation permissions after login, but the intermediate user only can get it after the administrator exited it.

How do I reset the default IP address?

To reset the default IP address, access the network settings in the software interface and modify the IP configuration accordingly.

Can I use this product with Mac operating systems?

Yes, the product is compatible with Mac operating systems. Install the necessary software on your Mac device for seamless integration.

Documents / Resources

	**AIP-C Over IP Expansion Card for KVM Switch** [pdf] User Manual Over IP Expansion Card KVM Switch, Over IP Expansion Card KVM Switch, IP Expansion Card KVM Switch, Expansion Card KVM Switch, Card KVM Switch, KVM Switch

References

- **User Manual**