

Rackmount KVM-over-IP Switch 1 Local / 1 Remote Access

(HT1108/ HT1116 / HT1132)



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1.Description

1.1 Brief Introduction

The KVM - over - IP (Hereinafter refers to IP KVM) redirects the local keyboard, mouse and video data to a remote administration console. It allows you to control one or many computers locally at the server site or remotely via the Internet using a standard browser. You can securely gain BIOS level access to systems for maintenance, support, or failure recovery over the Internet.

It is easy and fast to install the IP KVM, you just need to connect corresponding cables to the right ports of KVM and its module without software configuration. Connect computers with compact RJ-45 connectors and Cat 5e/6/7 cable, transmitting distance is up to 100M.

1.2 Features

Hardware Features

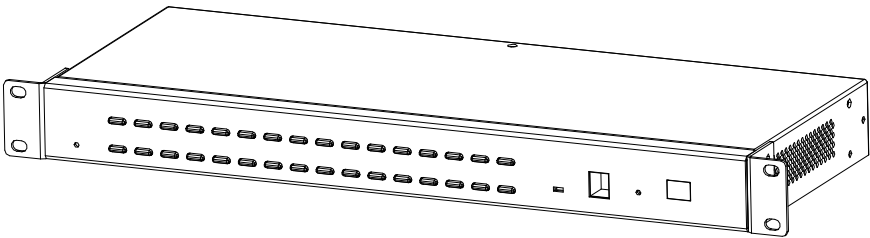
- Rack-mountable in 1U system rack
- Dual power supply

Local Console

- Control up to 8 / 16 / 32 computers
- Support 1 local user and 1 remote user, port share mode allows local and remote users to gain access to a server simultaneously
- Easy-to-use switching by browser-based UI interface, hotkeys and pushbuttons
- Support servers with VGA/DVI/HDMI/DP port
- Multiplatform client support (Windows, Linux, Unix, Mac, Solaris (Sun), Redhat, Ubuntu)
- Local Console, Browser, and AP GUIs offer a unified Multilanguage interface
- Support mouse synchronization mode--automatically synchronizes the local and remote mouse movements
- Video synchronization with local console - EDID information for local console display can be stored in the host module for video resolution optimization
- Keyboard and mouse emulation to ensure the normal booting
- Broadcast mode--operations simultaneously performed on all selected computers
- Auto scan feature for monitoring user-selected computer
- Hot pluggable--add or remove computers without having to power down the switch

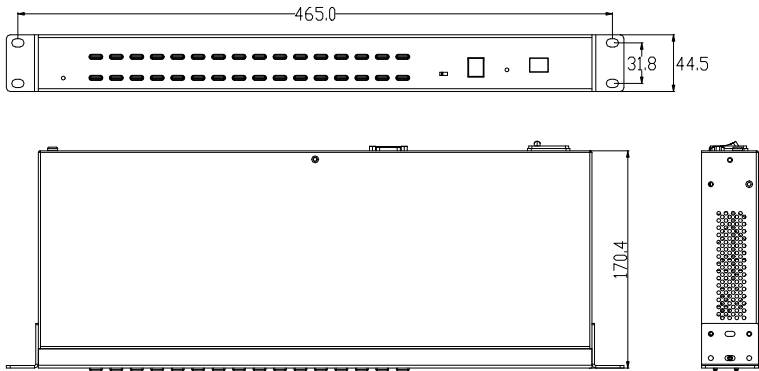
Remote Console

- Adaptive 10 / 100 / 1000 Mbps network
- WEB browser-based or KVM_Clients remote management BIOS-level access
- BIOS-level access
- Video quality and video tolerance can be adjusted to optimize data transfer speed, data transfer speed is up to 60 FPS
- Full screen or scalable video display
- Remote users and local users can control the same server/computer synchronously
- Support AES / DES / 3DES encryption
- Support audit function-allows the administrator to audit the device through the system log and operation log
- Exit Macros support
- Configurable user and group permissions for server access and control
- Support strong password
- Support firmware upgrade

1.3 Appearance**Front View**

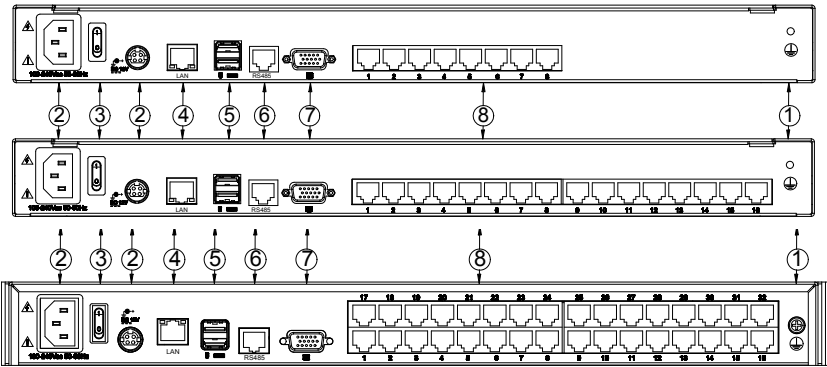
1-1.1 front view

Structure and Size



1-1.2

Rear view



1-1.3

No.	Explanation
1	Ground connecting screw
2	Power input (AC or DC)
3	Power Switch
4	LAN Port
5	USB Port
6	RS485 Port
7	Monitor Port
8	PC connecting port

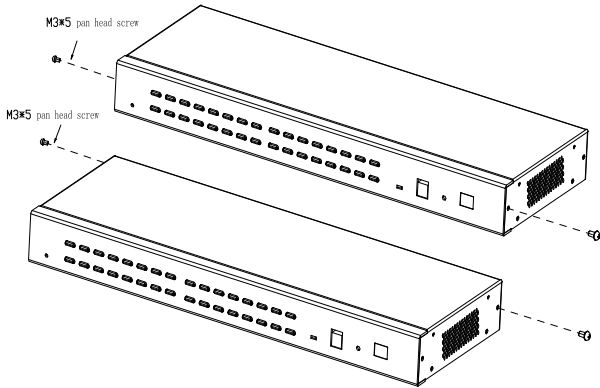
2. Hardware Installation

2.1 Rack Mounting

The KVM switch will be installed in the front or rear rack cabinet. Make sure all the connecting computers as well as external device are shut down.

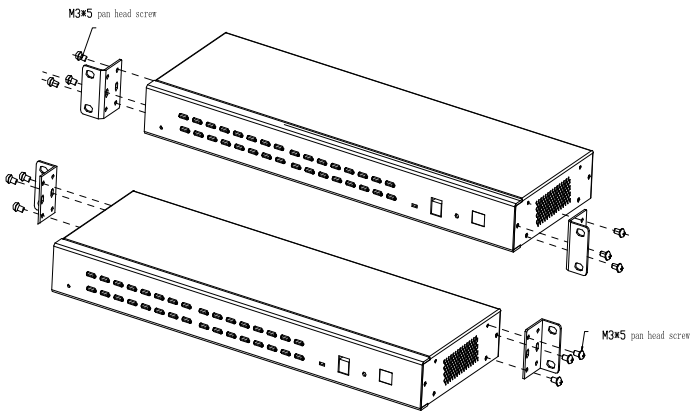
Installation instruction:

1) Remove the front or rear screw



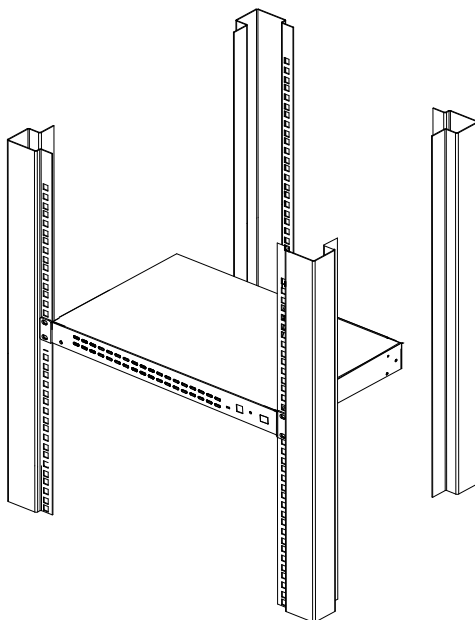
2-1.1

2) Screw the bracket to the front or rear part of the KVM switch



2-1.2

3) Screw the KVM device to the rack cabinet (front or rear part)

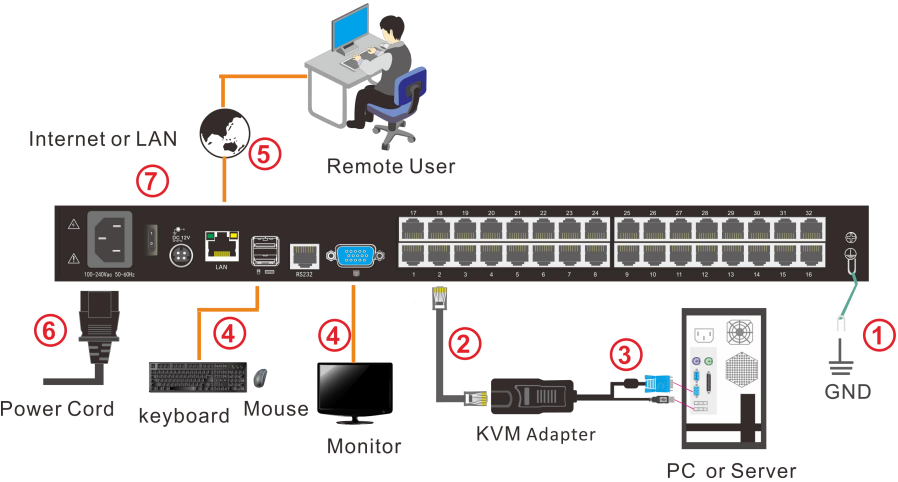


2-1.3

2.2 KVM Installation Diagram

Installation Steps:

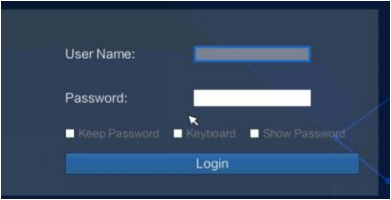
- 1) Make sure the IP KVM has been connected to the ground.①
- 2) Connect PC or server to KVM with KVM Adapter and CAT5 cable according to number② and ③ in below diagram.
- 3) Connect the local console (keyboard, monitor and mouse) to the console port (see number ④ in below diagram)
- 4) Connect IP KVM's LAN port to the Internet (see number ⑤ in below diagram).
- 5) Connect 220V AC power(see number⑥ in below diagram), then turn on power switch ⑦ and the KVM start auto-checking and make “beep” sound.
- 6) Power on PC or server.



2-2.1 Installation diagram

2.3 Opening the KVM

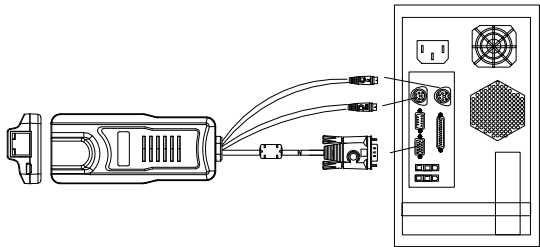
- The KVM makes “beep” sounds after power on, UI window appears for you to input user name and password.



User Name:	admin
Password:	admin

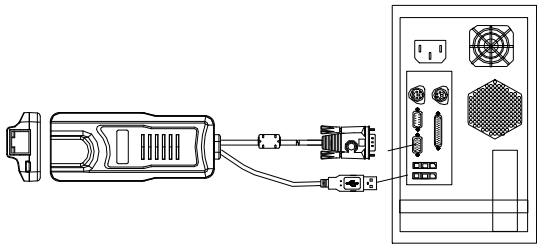
2.4 KVM Adapter

PS/2 Adapter



Model No.	Keyboard/Mouse	PC	Explanation
KCM-1100P	PS/2	VGA	Connect to PS2/VGA server

USB Adapter



Model No.	Keyboard/Mouse	PC	Explanation
KCM-1200U	USB	VGA	Connect to USB/VGA server
KCM-3200H	USB	HDMI	Connect to USB/HDMI server
KCM-2200D	USB	DVI	Connect to USB/DVI server
KCM-4200P	USB	DP	Connect to USB/DP server

Table1: LED Indicator of the KVM Adapter

Components		Function
Green	Online	Indicates that the corresponding host has been connected to the KVM switch and Power On.
Orange	Selected	Indicates that the corresponding host is in use.

3. LED Operating

3.1 Operating the Buttons



Figure: 3-1.1 32Port

No.	Name	Functions
1	Port Selection	Press this button to choose the server connected to the corresponding port and the LED displays the pressed button number.
2	LEDs	The port indicator is built into the port selector switch. The online indicator (green) indicates that the server on the corresponding end is already connected to KVM and Power On. The selected indicator (orange) indicates that the server of the corresponding port is working.
3	KVM Reset	Reset the KVM
4	Firmware Upgrade	Upgrade the firmware
5	Software Upgrade	Upgrade the software
6	Power Indicator	KVM Power Status
7	Station ID	The current port number is displayed. When there is a cascade lower level, the number of BANK will be displayed.
8	Brightness 	Press 【3】 for three seconds enters brightness adjusting mode. 33 are flashing on the LED tube. Then press 【5】 , 【6】 to adjust. Press 【3】 exits or waits for five seconds and it will auto-exit.
	Definition 	Press 【4】 for three seconds enters definition adjusting mode. 44 are flashing on the LED tube. Then press 【5】 , 【6】 to adjust. Press 【4】 exits or waits for five seconds and it will auto-exit
	Initialize  	Press 【6】 for three seconds will initialize the brightness and definition of each port.

3.2 Key combination function

If you want to set other hotkeys to pop up the UI interface or key combination switch, set up the via the local console, **【System Settings】 > 【Device info】**

Pop up the UI interface	Double click 【L_Ctrl】 Double click 【L_Alt】 Double click 【Scroll Lock】 Double click 【Caps Lock】
Hot key	【L_Alt】 + 【L_Ctrl】 【L_Win】 + 【L_Ctrl】 【L_Alt】 + 【L_Win】

Hotkey commands are as follows:

Hot key + the corresponding function key

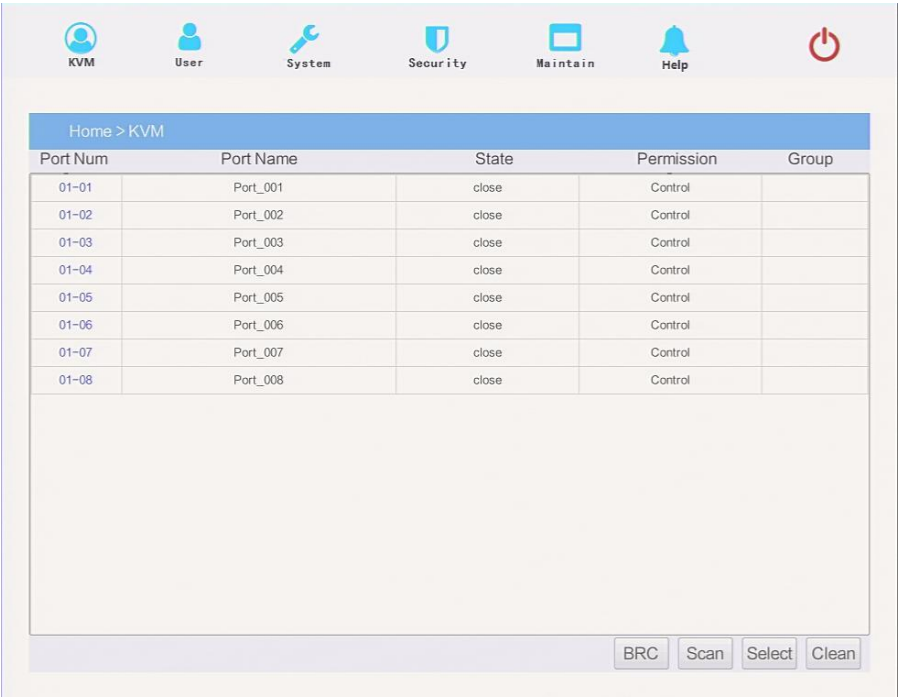
Function	Operating	Function description
Port switch	+Number	Skip ports from 1~16
	+ 【↑】 / 【→】	Skip to previous port
	+ 【↓】 / 【←】	Skip to next port
Brightness	+ 【+】	+
	+ 【-】	-
definition	+ 【>】	+
	+ 【<】	-
Reset Video	+ 【R】	Reset the video
Lock KVM	+ 【L】	Lock KVM and a user login window appears

4. UI interface Operating

■ login UI control menu

User Name	admin
Password	admin

After logging in the device, you can see the connection status of the device port.

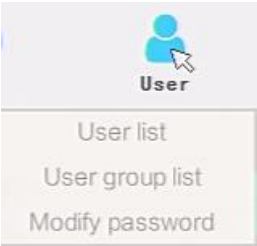


In the port list,

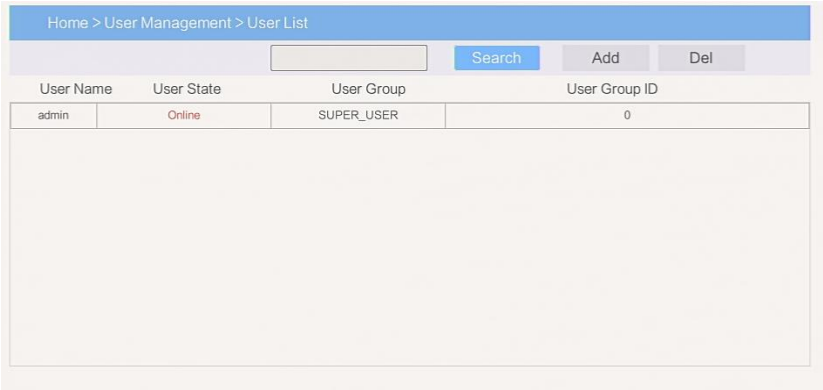
- 1. Click the "Connect" to enter the host screen;
- 2. In the host screen, press the [L_Ctrl] key on the keyboard twice.
Return to the UI interface.
- 3. Access status of the KVM ports
 - "connect" means that the user can access that port at any time
 - "close" indicates that the connected server/computer is not powered on
 - "uart" means the serial module is connected

4.1 User

User management mainly set up for adding, deleting and modifying user& user group, user password modification, user group permissions and so on. If the user do not have user management authority, the user cannot access to user management interface. The user in this section is who have the user management authority.



User List

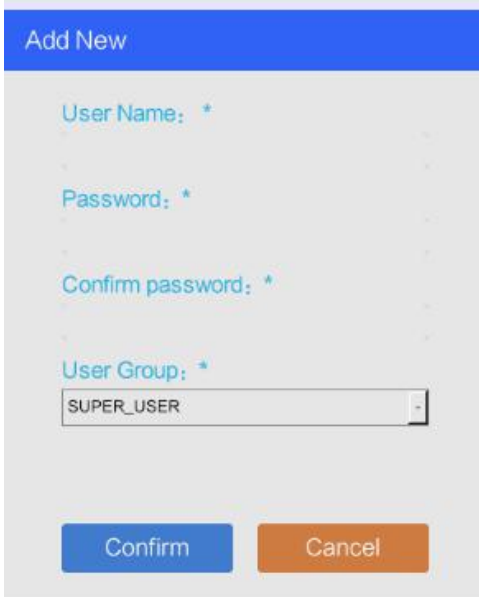


User list interface: list all registered users, you can see more by page turning

- User name or full user name search
Input user name, it shows related users which make it convenient when you have a large number of users

■ Add user

Click **【add】** button, the window below appears:



In this window, “*” is required content

- 1) User name: user name can only be low case letter, number and “_”
- 2) Enter password: without strong password protection, the password can only compose of 1-16 letters, numbers or special characters (-@. \$! _); with strong password protection, the password should be filled in according to the rules of strong password protection. More details please check “security management—>security setting—>strong password”
- 3) User group: Select the corresponding user group

User group list

Home > User Management > User Group List

Search Group

Add

Del

Num	User Group Name
0	SUPER_USER

User group list interface: List all registered users, you can see more by page turning

- User group name search
Input user group name, it shows related user groups which make it convenient when you have a large number of users
- Add user group
Click **add** button, the window below appears

Add Group

UserGroup Name: *

Permission

☐ KVM☐ User Control☐ System Settings☐ Safety Control☐ Maintenance

Port Authority

Numuber	Port Name	Port Access	Virtual media	Shortcut
1	Port_001	View	Refuse	All ports for v
2	Port_002	View	Refuse	
3	Port_003	View	Refuse	
4	Port_004	View	Refuse	
5	Port_005	View	Refuse	
6	Port_006	View	Refuse	
7	Port_007	View	Refuse	
8	Port_008	View	Refuse	

<

>

Confirm

Cancel

1) User group name: it contains only low case letter, number and “_”

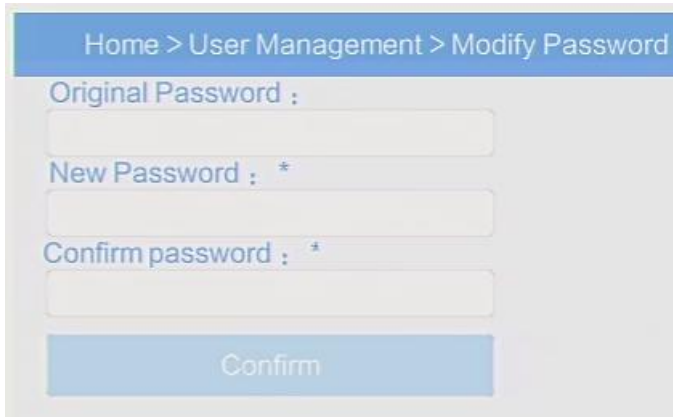
2) Authority: mainly refers to management authority and operation authority, click show more, authority menu appears(shown in picture above), click show less, authority menu disappears

- ✧ Port Access: Authority to access KVM, and control target server
- ✧ User Management: user management authority
- ✧ Device Setting: KVM device management authority
- ✧ Security Management: security management authority
- ✧ System Maintenance: system maintenance authority

3) Port authority: set up access and operating authority for each port

Change password

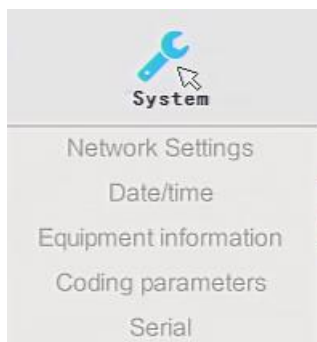
Change the User login password.



In this window, “*” is required content

- 1) User name: it contains only low case letter, number and “_”
- 2) Enter password: without strong password protection, the password can only composed of 1-16 letters, numbers or special characters(-@.\$! _); with strong password protection, the password should be filled in according to the rules of strong password protection. More details please check “security management—>security setting—>strong password”
- 3) User group: Select the corresponding user group

4.2 System



Network settings

Home > System Settings > Network Settings

IP Address :

Subnet Mask :

Gateway :

MAC :

DCSG IP

DCSG Port

IP v4 address setting:

- ✧ IP address: preset IP address
- ✧ Subnet mask: Generally, it should be consistent with other devices in the network.
- ✧ Default gateway: Generally, it should be consistent with other devices in the network.
- ✧ MAC address: physical address
- ✧ DCSG IP: the IP address should be the same with the Authentication Server IP address
- ✧ DCSG Port: the Port should be the same with the Authentication Server Port.

Date time

Home > System Settings > Date Setting

☒ User setting time

2022-07-28

17:41:17

☐ Synchronize with the NTP server :

Time server:

223.113.97.98

East 8 (Beijing, China)

Confirm

Cancel

System time setting:

- Customized time: manual setting
- Synchronize with the NTP server: the system automatically updates the time according to the time

Equipment information

KVM

User

System

Security

Maintain

Help

Home> System Settings > Equipment information

Device name

IPKVM

KVM Hot-key

Double-click the left Ctrl

Function Hot-Key

|Alt + |Ctrl + Function key

Setting Module EDID

1280X1024

OK

Function key table

1,2,3...n	Switch the port
+	VGA Bright +
-	VGA Bright -
>	VGA Gain +
<	VGA Gain -
↓	Switch Next port
↑	Switch Previous port
←	Switch Next port
→	Switch Previous port
L	Logout
R	Reset VGA

Encoding parameters

Home> System Settings > Encoding Parameters

Video Formats: PAL

Stream Type: Major Stream

Frame Rate: 25

IP Ratio: 25

Stream Rate: 4MPBS ▼

Frame Setting: Low Rate ▼

OK

Serial

Home> System Settings > Serial

Baud Rate: 50 ▼

Parity: no ▼

OK

Baud Rate: Set the baud rate of the corresponding serial device

Parity: Set the check digit of the corresponding serial device

4.3 Security



Security

Security Settings

Audit log

Security Settings

Home > Safety Management > Security Settings

Logon restrictions

☐ Restrict single sign-on.

☐ Password expiration Day

☐ Cancellation user (1~365minutes)

Login lock

☐ Disable lock

☐ Account lock Try

☒ Timed lock Try Locking (1~1440minutes)

Strong password

☐ Enable password

☐ Contain lowercase ☐ Contain uppercas

☐ Contain Number

Password depth

Min/max length -

Encryption scheme

Local info encryption mode

Local device reset mode

☐ Encryption mode is applied to KVM and virtual media

Confirm

Cancel

- Login restriction: user name login restriction
 - ✧ Single sign on restriction: if one user name is logged in, it can no longer log in with this user name, if it is selected, you can log in with the user name
 - ✧ Enable passwords expiration: current password use days ranges from 1-365 days, if it is selected, the default is 50 days
 - ✧ Free user log off: If user do not have operations after logging in a set time, the user will be logged off automatically
- Login lock
 - ✧ Disable Lock: when it is selected, login lock will be canceled
 - ✧ Account lock: set trying number of times for login attempts failed
 - ✧ Timed lock: set the account lock time when account login failed attempts are over the setting number of times
- Strong password
 - ✧ Enable strong password: when it is selected, the original password will be forced to be changed
 - ✧ Password history depth: new password cannot be the same as the latest 3 default passwords, this number can be changed, it ranges from 1-10
 - ✧ Strong password length: From 1-bit to 16 bits.
- Encryption mode

DES
AES128
AES256

 - ✧ Local information encryption mode: three encryption schemes and one un-encryption scheme
 - ✧ Encryption mode is applied to KVM and virtual media: applied when it is selected

Audit log

Home > Security Management > Auditlog

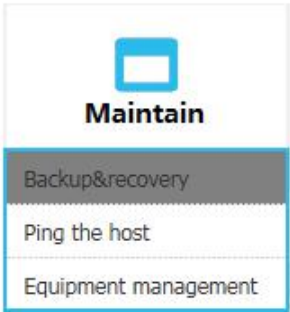
Date: 2022-07-28 00:00:00 - 2022-07-28 17:45:20 Maintype: ALL subtypes: ALL Search

Number	Date	Event	Instructions
01-01			
01-02			
01-03			
01-04			
01-05			
01-06			
01-07			
01-08			
01-09			
01-10			
01-11			
01-12			
01-13			
01-14			
01-15			
01-16			

< >

4.4 Maintain

Provide system maintenance tools such as test tools, data backup and restart



Backup& Restore

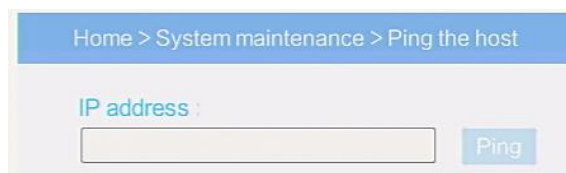


Backup: backup current system settings

Restore: restore the last backup of system

Factory reset: Restore to factory state (KVM must be restarted to take effect)

Ping



Update



5.Remote control

5.1 Configure the target server

The KVM target server is the server that connected to the IP KVM Switch. Before install and use the IP KVM Switch, we need to configure the target server first. Please refer to below configuration instructions:

◆ The IP KVM switch supports below two mouse mode:

- ✧ Absolute mouse mode
- ✧ Relative mouse
- ✧ Intelligent mouse mode

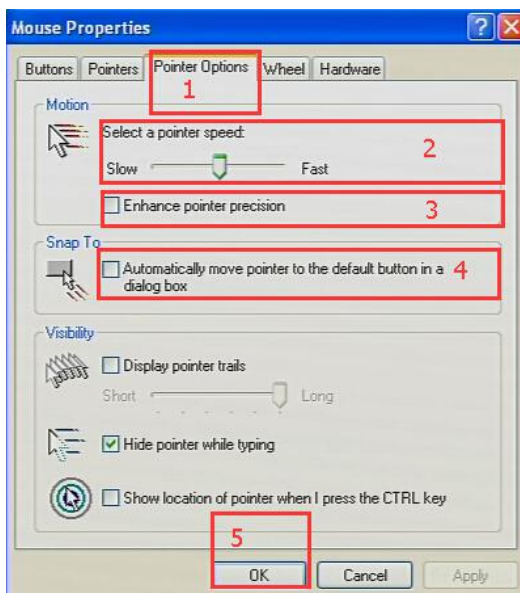
Mouse configuration is different for different operating systems; please refer to below detail instructions for mouse configuration.

◆ **Mouse and display configuration on Windows server 2003 and above version, Windows XP and above version**

Operating systems: Windows server 2003, Windows server 2005, Windows server 2008, Windows server 2012; Windows XP, Windows7, Windows8, Windows10

✧ **Set Mouse Precision**

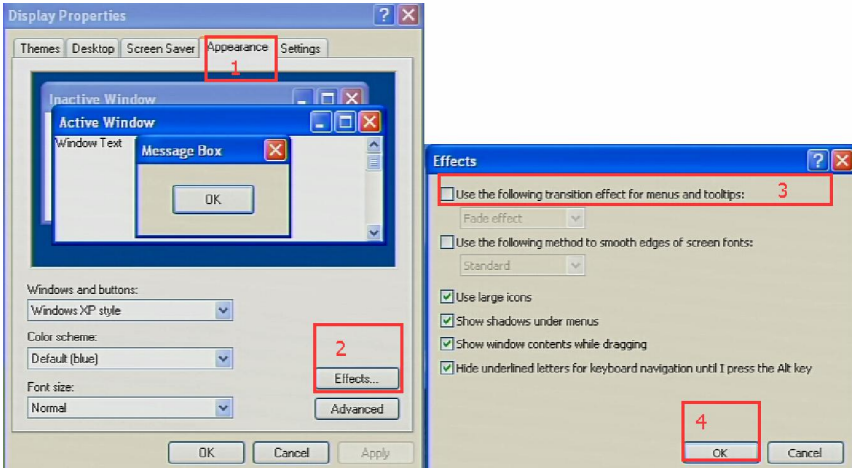
Start—>Control Panel—> [Hardware]—>Mouse



Please follow the steps above to finish the setting.

✧ **Set up the display of the target server under Windows XP, Windows 2003, Windows2008**

Start—>Control Panel—> [Hardware]—>Display



Please follow the steps above to finish the setting.

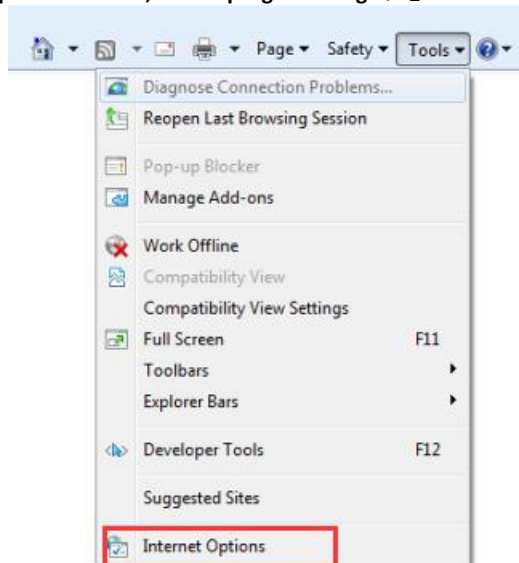
◆ **Configure the mouse under Linux (ubuntu 10)**

Input “xset m 1 1” in the Linux command line terminal and press Enter to finish the mouse setting, as shown below.

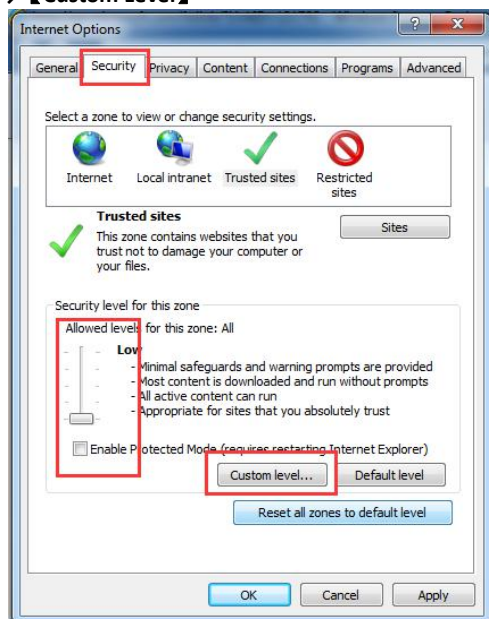
```
File Edit View Search Terminal Help
kinan@ubuntu:~$ xset m 1 1
kinan@ubuntu:~$
```

5.2 Remote WEB interface settings

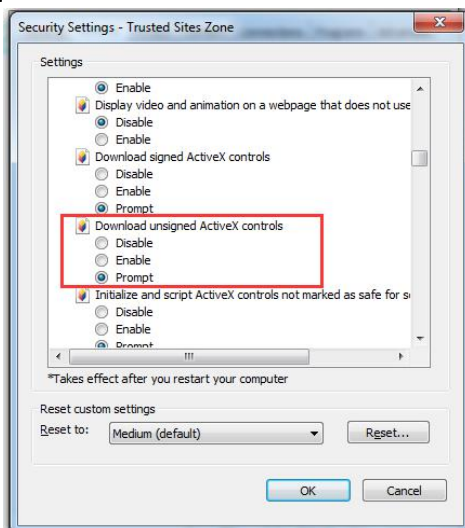
Install and open IE browser, click top-right settings→ **【Internet Options】**



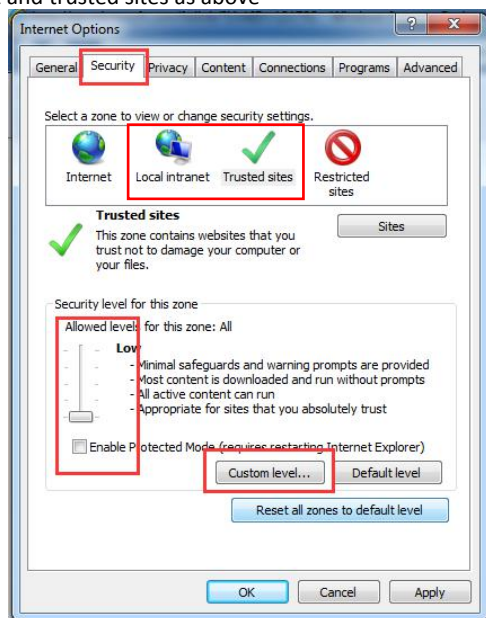
Click **【Security】** → **【Custom Level】**



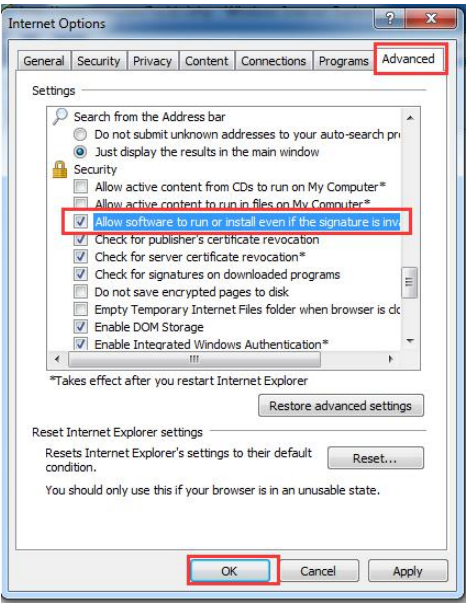
Select **【ActiveX controls and plugins】** , enable all the controls and plugins, if Enable is not safe, select Prompt.



Set the local intranet and trusted sites as above



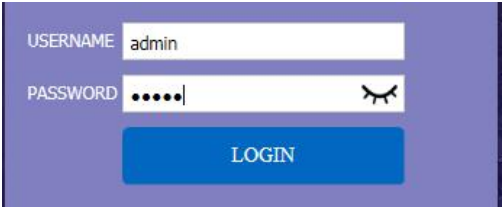
Click **【Advanced】** , find **【Allow software to run or install even if the signature is invalid】** and select it.



5.3 Log in

Default Items	Default Value
User name	admin
Password	admin
IP address	192.168.1.167
Notice: For security, please change the password after the first login Differentiating between capital and lowercase letters.	

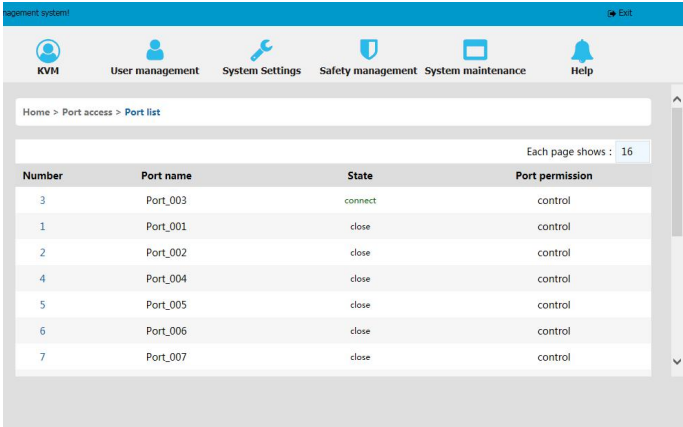
After connecting the device, open the Internet explorer web browser:
`http:// 192.168.1.167`



A login form with a purple background. It contains two input fields: 'USERNAME' with the text 'admin' and 'PASSWORD' with masked characters '•••••'. To the right of the password field is a small eye icon. Below the fields is a blue button labeled 'LOGIN'.

User Name: admin
Password: admin

After logging in for the first time, a prompt for loading the ActiveX will appear below the browser. Clicking “Allow” will bring up the Download Video Plugin dialog box. Click “OK” to use the video plugin.



The screenshot shows the 'KVM management system' interface. At the top is a navigation bar with icons and labels for KVM, User management, System Settings, Safety management, System maintenance, and Help. Below this is a breadcrumb trail: Home > Port access > Port list. A table titled 'Port list' displays port information. The table has four columns: Number, Port name, State, and Port permission. The 'State' column shows 'connect' for Port_003 and 'close' for the others. The 'Port permission' column shows 'control' for all ports. A pagination bar at the top right of the table indicates 'Each page shows : 16'.

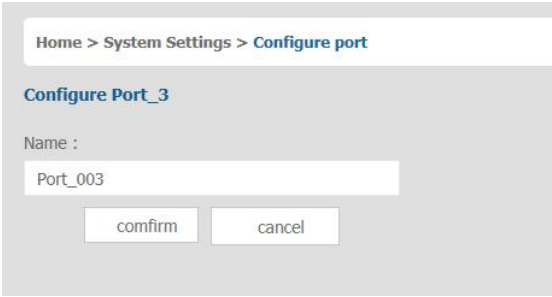
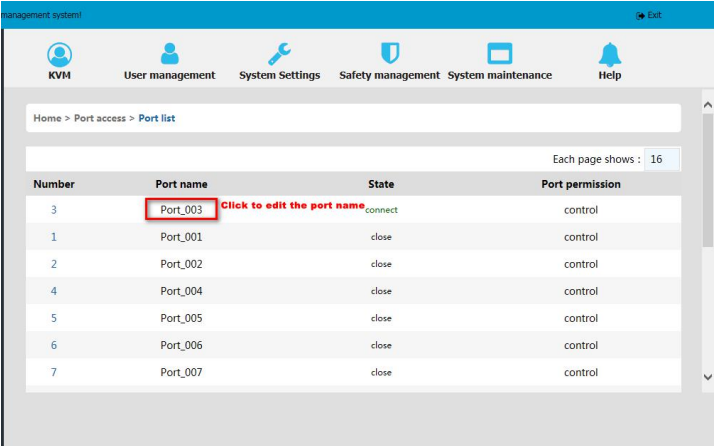
Number	Port name	State	Port permission
3	Port_003	connect	control
1	Port_001	close	control
2	Port_002	close	control
4	Port_004	close	control
5	Port_005	close	control
6	Port_006	close	control
7	Port_007	close	control

Access status of the KVM ports, three connection status:

- 1.busy, 2. Connect , 3. close

- ✧ “Connect” shows the target KVM is connected to the KVM port; users can access to the target anytime.
- ✧ “close” shows that the KVM is not connected to the KVM adapter or the target server, or the target server is not boot up.
- ✧ “busy” shows that port is access by local or remote users.

Edit Port Name:



Video Control Interface Menu



【Hide or Show Toolbar】

【Setting Option】

【Send Ctrl+Alt+Del】

【Mouse Synchronization】

【Single Mouse】

【Adaptive Window】

【Source Video params】

【Full Screen】

1) Hide or Show Toolbar



When the video window starts, the toolbar is always displayed by default. Click the icon, the toolbar will automatically hide. When the mouse move out (into) from the toolbar, it hides (shows).

2) Setting Options



2.1 Keyboard & Mouse Options

When user has the authority (chart 5-1.1)

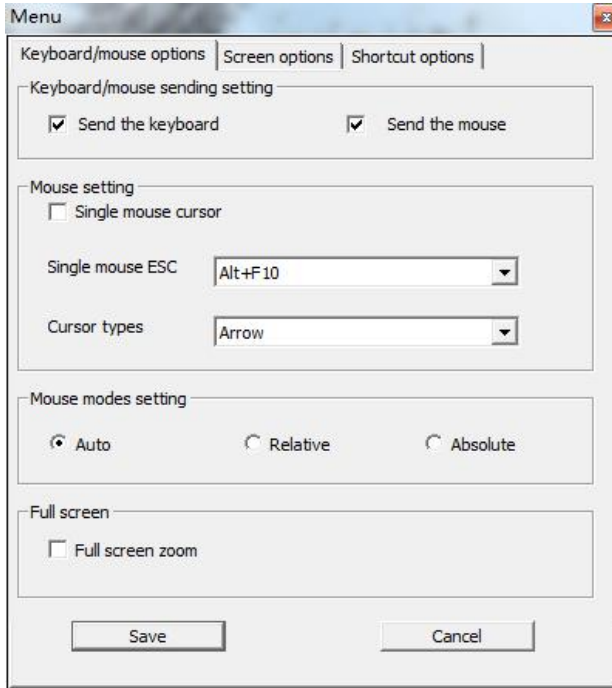


Chart 5-1.1

- Keyboard/mouse sending setting
 - Send the keyboard: keyboard data can be sent to the target server through the video window so that it can control the target server's keyboard.
 - Send the mouse: mouse data can be sent to the target server through the video window so that it can control the target server's mouse.
- Mouse Setting
 - Single mouse cursor: when single mouse chosen, target server's mouse will show and remote user's mouse will hide
 - Single mouse ESC: press the keyboard "Alt + F10" exit the single mouse mode.
 - Cursor types: it can set remote user's mouse cursor type in double mouse mode

- Mouse Mode Setting:
 - Relative mode: Relative mode is compatible with almost all the operating systems; the factory default mode is relative mode.
 - Absolute mode: The absolute mode is not compatible with LINUX operating system.
- Full Screen Setting
 - Full Screen Zoom: If the “Full Screen Zoom” is disabled, the video will be displayed in the remote full screen; If the “Full Screen Zoom” is enabled and the target server’s resolution is different from the remote user computer’s resolution (the resolution of the general target server is less than the resolution of the remote user computer), the video plug-in will display the screen in the middle of the screen according to the resolution of the target server.

When users only have authority to view, remote users can only view the video window and cannot control it, as shown in Chart 5-1.2.

The screenshot shows a 'Menu' dialog box with a title bar. It contains three tabs: 'Keyboard/mouse options', 'Screen options', and 'Shortcut options'. The 'Keyboard/mouse options' tab is selected. Inside this tab, there are four sections: 1. 'Keyboard/mouse sending setting' with two checkboxes, 'Send the keyboard' and 'Send the mouse', both of which are unchecked. 2. 'Mouse setting' with an unchecked checkbox for 'Single mouse cursor (Click the image area to take effect)', a 'Single mouse ESC' dropdown menu set to 'Alt+F10', and a 'Cursor types' dropdown menu set to 'Arrow'. 3. 'Mouse modes setting' with two radio buttons, 'Relative' (which is selected) and 'Absolute'. 4. 'Full screen' with an unchecked checkbox for 'Full screen zoom'. At the bottom of the dialog are 'Save' and 'Cancel' buttons.

Chart 5-1.2

2.2 Display option

Display option dialogue shows screen parameters and screen information, as shown in 2-3

➤ Frame Parameter

- Automatic calibration: The video window will automatically adjust the screen parameters of the target server to the default best effect.
- Contrast, brightness, hue and saturation: if “automatic calibration” is disabled, users can customize screen parameters of target server.

➤ Frame information

- Resolution: it shows the resolution of the target server. When the target server’s platform is win10, it shows the resolution of video
- IP address: KVM switch’s IP address
- Refresh Rate: video refresh rate
- Port number: video port number
- Manual calibration resolution: when the resolution of the target server is not consistent with the resolution of the video window, it can manually calibrate the resolution after calibration
- Target server resolution: resolution selection of manual calibration
- Target server’s picture zooming: Under the win10 system, if the resolution is not the best resolution, the win10 system will zoom the video screen, and the video window cannot automatically identify whether the video source picture is zooming or not, then the user need to select the option by its own.

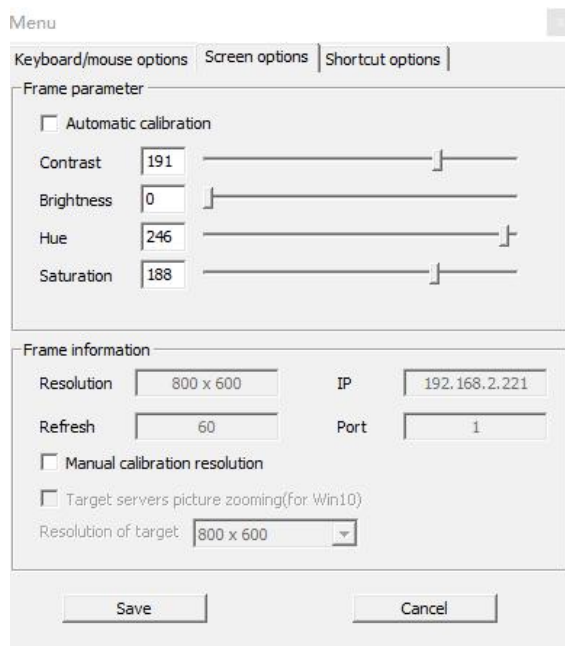


Chart 5-1.3

2.3 Keyboard Shortcuts

Support 11 keyboard shortcuts, each with a maximum of 6 keys.
It can save shortcut keys and can be directly used when logging in next time. Shown as chart 5-1.4

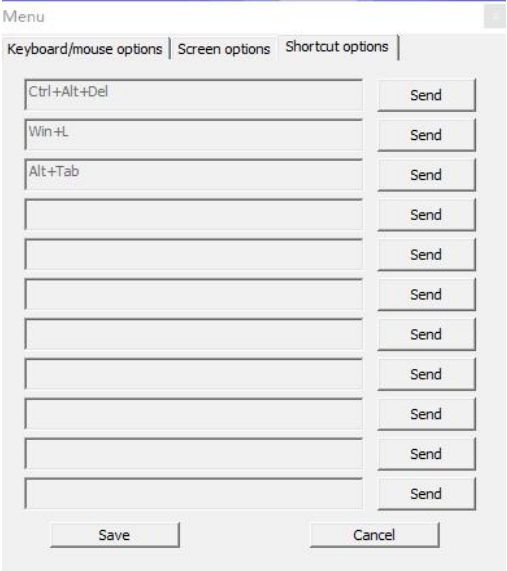
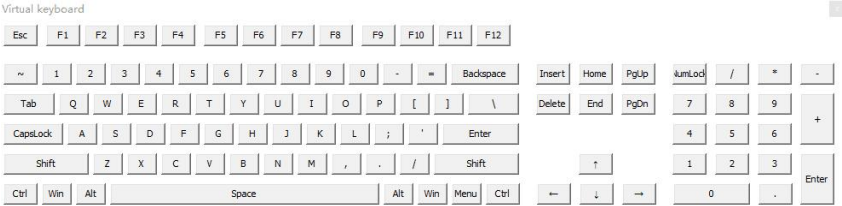


Chart 5-1.4

Click blank input box, virtual keyboards appears, and then key clicked on the virtual keyboard will be displayed in the input box.



3) **Send** -----send Ctrl+Alt+Del

Keyboard Macro: click this button, the target server will receive shortcut key.

2 Send Ctrl+Alt+Del

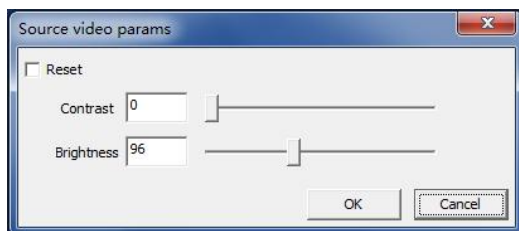
Bring up the task manager of target server (Windows operating system)

4) **Mouse Synchronization**

In double mouse mode, click this button to automatically collate the current mouse, and synchronize the external mouse and internal mouse to the origin of the left corner of the video window.

**5) Single mouse**

In the video window, it will hide the remote user's mouse, and only show the target server's mouse.

**6) Source video params****7) Optimum size**

The initial size of the video window is 1024x768, when click this button, the video window will adjust the size of the window according to the resolution of the target server.

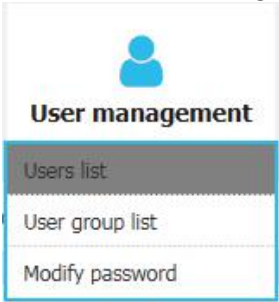
**8) Full Screen**

The video window enter full screen mode

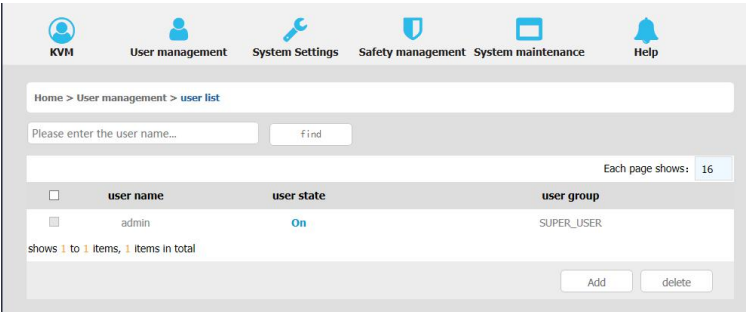
6. IP Menu Option

6.1 User management

User management mainly set up for adding, deleting and modifying user& user group, user name password modification, user group permissions and so on. If the user do not have user management authority, the user cannot access to user management interface. The user in this section is who have the user management authority.



User List



User list interface: list all registered users, you can see more by page turning

- User name or full user name search
Input user name, it shows related users which make it convenient when you have a large number of users

■ Add User

Click **【add】** button, the window below appears:

Home > User management > Add user

Add user

username *

Please enter the user name

Set password *

Please enter password

Confirm password: *

Please confirm the password

User groups *

SUPER_USER

confirm cancel

In this window, “*” is required content

- 1) User name: user name contains only low case letter, number and “_”
- 2) Enter password: without strong password protection, the password can only compose of 1-16 letters, numbers or special characters (-@. \$! _); with strong password protection, the password should be filled in according to the rules of strong password protection. More details please check “security management— > security setting— > strong password”
- 3) User group: Select the corresponding user group

■ Delete User

Select the user you want to delete, click **【delete】**,

Home > User management > user list

Please enter the user name... find

Each page shows: 16

☐	user name	user state	user group
☐	admin	On	SUPER_USER
☒	user1	Off	SUPER_USER

shows 1 to 2 items, 2 items in total

Add delete

Note: admin cannot be deleted, other users can be deleted, even if they are online.

■ Edit user

Click **【A1】** , edit user window pop up

Home > User management > [user list](#)

Please enter the user name...

Each page shows:

☐	user name	user state	user group
☐	admin	On	SUPER_USER
☐	user1	Off	SUPER_USER

shows 1 to 2 items, 2 items in total

Home > User management > [Edit user](#)

Edit user

username *

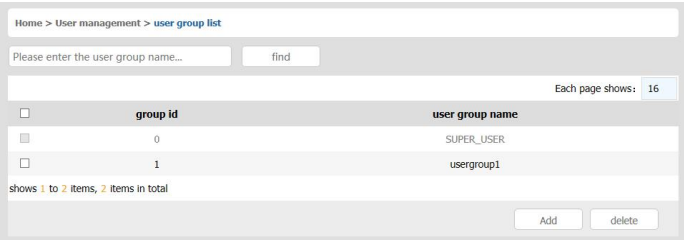
Original password: *

New password: *

Confirm password: *

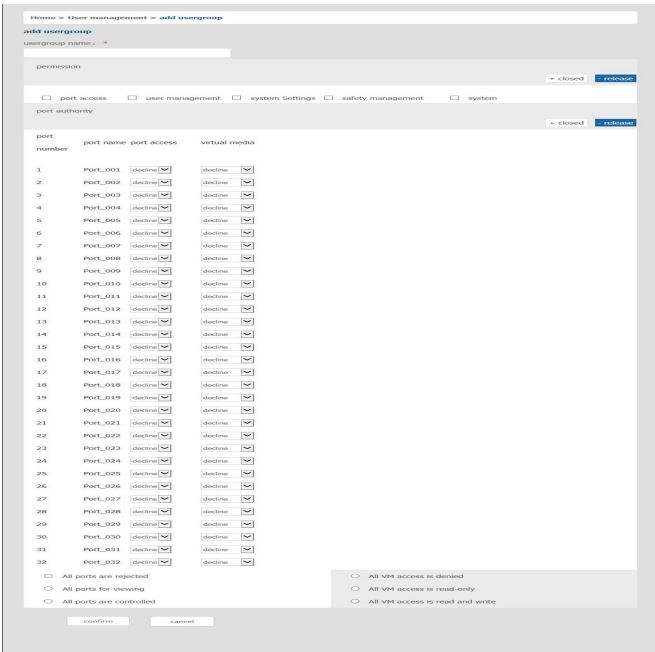
User groups *

User group list



User group list interface: list all registered users, you can see more by page turning

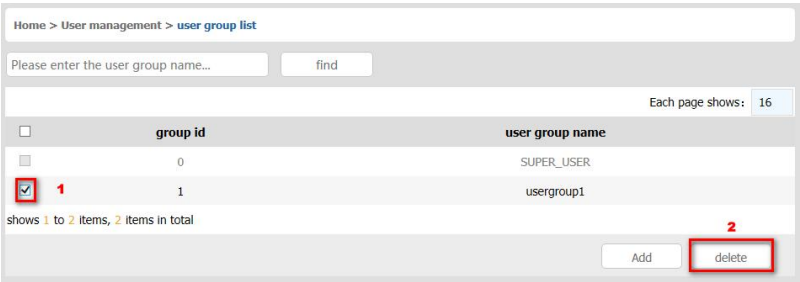
- User group name search
Input user group name, it shows related user groups which make it convenient when you have a large number of users
- Add user group
Click **add** button, the window below appears



- 1) User group name: it only contains low case letter, number and “_”
- 2) Authority: mainly refers to management authority and operation authority, click show more, authority menu appears (shown in picture above), click show less, authority menu disappears
 - ✧ Port Access: Authority to access KVM, and control target server
 - ✧ User Management: user management authority
 - ✧ Device Setting: KVM device management authority
 - ✧ Security Management: security management authority
 - ✧ System Maintenance: system maintenance authority
- 3) Port authority: Set up access and operating authority for each port

■ Delete user group

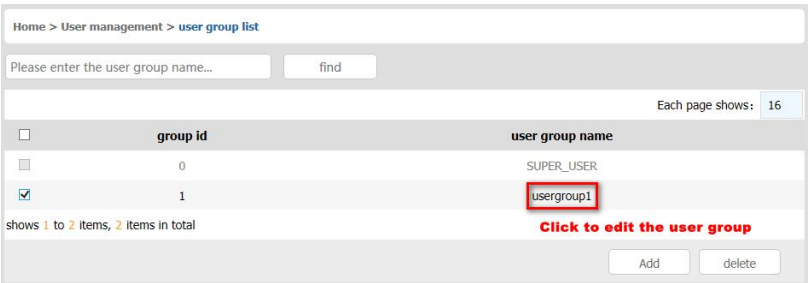
Select the user group you want to delete, click **delete**



Note: SUPER_USER is system allocated which cannot be deleted

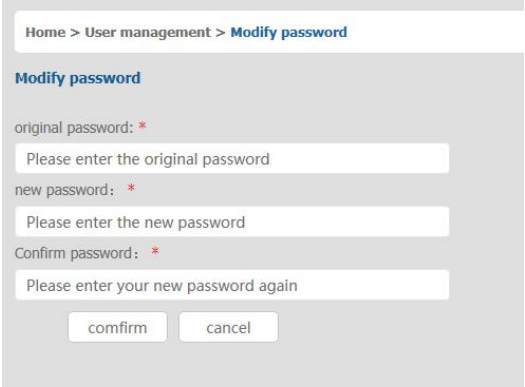
■ Edit user group

Click **1** edit user group window pop up ; For specific operation, please check “add user group”



Change Password

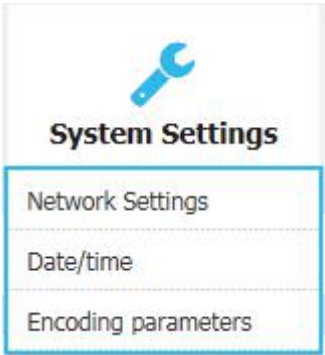
The passwords which is using for logged user



The screenshot shows a web interface for modifying a password. At the top, there is a breadcrumb trail: "Home > User management > **Modify password**". Below this, the title "Modify password" is displayed. The form contains three input fields, each with a red asterisk indicating a required field. The first field is labeled "original password:" and contains the placeholder text "Please enter the original password". The second field is labeled "new password:" and contains the placeholder text "Please enter the new password". The third field is labeled "Confirm password:" and contains the placeholder text "Please enter your new password again". At the bottom of the form, there are two buttons: "confirm" and "cancel".

- 1) Old passwords: The passwords you are using
- 2) New passwords: Without strong password protection, the password can only compose of 1-16 letters, numbers or special characters (-@.\$! _); with strong password protection, the password should be filled in according to the rules of strong password protection. More details please check "security management—>security setting—>strong password"

6.2 System



Network Setting

Home > System Settings > Network Settings

Network Settings

Nic set

IPv4 address:

Subnet mask:

default gateway:

mac address:

DCSG Ip:

DCSG Port :

IP v 4 address setting:

- ✧ IP address: preset IP address
- ✧ Subnet mask: Generally, it should be consistent with other devices in the network.
- ✧ Default gateway: Generally, it should be consistent with other devices in the network.
- ✧ MAC address: physical address
- ✧ DCSG IP: the IP address should be the same with the Authentication Server IP address
- ✧ DCSG Port: the Port should be the same with the Authentication Server Port.

Date /Time setting

Home > System Settings > Date setting

Date setting

☒ User setting time

Set date:
2019-03-08

Setting time:
10:20

☐ Synchronize with the NTP server

Time server:

☒ Time Zone Settings

Select time zone:
East 8 (Beijing, China) ▼

Confirm Cancel

System time setting:

- Customized time: manual setting
- Synchronize with the NTP server: the system automatically updates the time according to the time server
- Time zone setting: choose time zone

Encoding Parameters

Home > System Settings > Encoding parameters

Encoding parameters

Encoding parameters

Video formats: PAL

Stream type: Main stream

Frame rate: 25

IP ratio: 25

Rate limit: 6MBPS ▼

confirm cancel

6.3 Safety management



Security Settings

 A screenshot of the 'Security Settings' configuration page. The breadcrumb trail at the top reads 'Home > safety management > Security Settings'. The page is divided into several sections:

- login restrictions**: Contains three settings: 'Restrict single sign-on' (checkbox), 'Enable password expiration' (checkbox with a value of 50 and a range of 1~365day), and 'Cancellation free user' (checkbox with a value of 36 and a range of 1 ~ 60 minutes).
- Strong password**: Contains 'Enable password strength rules' (checkbox), four character requirements (lowercase, capital, numeric, special) each with a checkbox, 'User password history depth' (value 3, range 1-16), and 'Minimum/maximum password length' (value 1, range 1-16).
- Login lock**: Contains 'Disable lock' (radio button), 'Account lock' (radio button with 'Attempts' and a value of 60), and 'Timed lock' (radio button with 'Attempts' and a value of 60, and 'Locking time' with a value of 2 and a range of 1-1440 minutes).
- Encryption scheme**: Contains 'Local information encryption mode' (dropdown menu set to 'No encryption'), 'Encryption mode is applied to KiVM and virtual media' (checkbox), and 'Local device reset mode' (dropdown menu set to 'Enable Local Faci').

 At the bottom of the page are 'confirm' and 'cancel' buttons.

- **Login restriction: user name login restriction**
 - ✧ Single sign on restriction: if one user name is logged in, it can no longer log in with this user name, if it is selected, you can log in with the user name
 - ✧ Enable passwords expiration: current password use days ranges from 1-365 days, if it is selected, the default is 50 days
 - ✧ Free user log off: If user do not have operations after logging in a set time, the user will be logged off automatically
- **Login lock**
 - ✧ Disable Lock: when it is selected, login lock will be canceled
 - ✧ Account lock: set trying number of times for login attempts failed
 - ✧ Timed lock: set the account lock time when account login failed attempts are over the setting number of times
- **Strong password**
 - ✧ Enable strong password: when it is selected, the original password will be forced to be changed
 - ✧ Password history depth: new password cannot be the same as the latest 3 default passwords, this number can be changed, it ranges from 1-10
 - ✧ Strong password length: From 1-bit to 16 bits.

■ Encryption mode

DES
AES128
AES256

- ✧ Local information encryption mode: three encryption schemes and one un-encryption scheme
- ✧ Encryption mode is applied to KVM and virtual media: applied when it is selected

Audit Log

Home> security management > auditlog

maintype: all

subtypes: all

date selection: 2019-03-09 00:00:00 to 2019-03-09 10:23:29

search

Each page shows: 16

number	date	maintype	subtype	description
1	2019-03-09 08:00:07	operations	system boot	The user 'admin' 'system boot' on the host IP is '127.0.0.1'
2	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
3	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
4	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
5	2019-03-09 08:00:12	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
6	2019-03-09 08:00:12	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'

6.4 System Maintenance



Provide system maintenance tools such as test tools, data backup and restart

Backup& Restore

The screenshot shows a web interface for 'backup recovery'. At the top, there is a breadcrumb trail: 'Home > system maintenance > backup recovery'. Below this, the title 'backup recovery' is displayed. The interface is divided into three main sections: 1. 'backup configuration file' section containing a 'confirm' button. 2. 'recovery' section containing a label 'restore backup recovery :' followed by a 'recovery' button. 3. 'factory reset' section containing a label 'factory reset :' followed by the text ':restore factory Settings may take up to two minutes'.

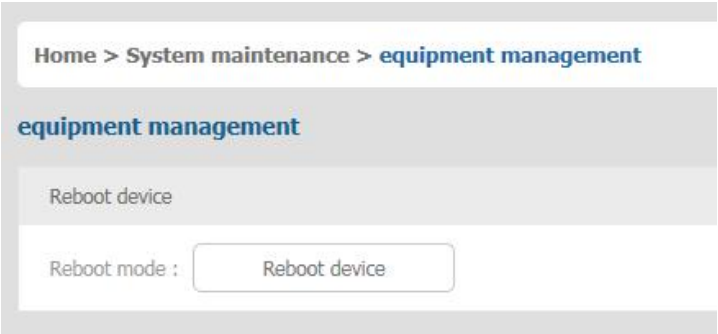
- **Backup:** backup current system settings
- **Restore:** restore the last backup of system
- **Factory reset:** Restore to factory state (KVM must be restarted to take effect)

Ping Host

The screenshot shows a web interface for 'Ping the host'. At the top, there is a breadcrumb trail: 'Home > System maintenance > Ping the host'. Below this, the title 'Ping the host' is displayed. The interface has two main sections: 1. 'IP address' section containing a text input field and a 'Ping' button. 2. 'result' section containing a large, empty text area for displaying the ping results.

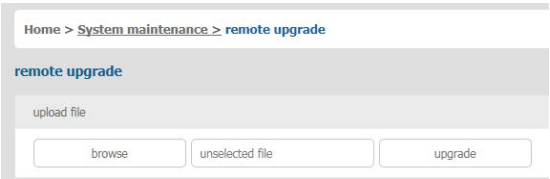
- **Test network connection state to target server**

Input IP address and click 【ping】 button , if network is smooth, result returns to “ip is active”; If not, it returns to “no response from IP” (IP is tested target server’s IP).



Remote upgrade

Provide users with better upgrade experience and continuous technical support



Upgrade method:

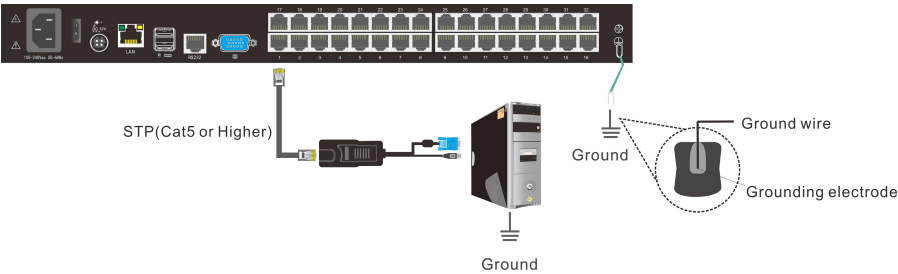
Click **【browse】** and select upgrade file, upload the file to the device, then click **【upgrade】** to finish upgrade

Appendix

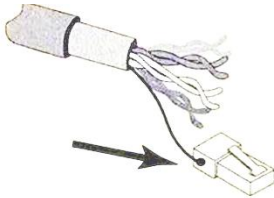
Model			HT1108	HT1116	HT1132
Computer Connection			8	16	32
Port selection			8	16	32
Port selection			Pushbutton, UI, Web, Hotkey		
Connector	Console	Keyboard Mouse	2x USB TYPE A		
		Monitor	1-HDB-15 Female(blue)		
	KVM Port (RJ-45)		8	16	32
	Upgrading switch		1x RJ11 Female		
	Power		3-Prong AC socket		
Switch	Port Selection		8	16	32
	Reset		1x touch-button		
	Upgrading switch		1x toggle switch		
	Power		1x rocker switch		
LEDs	Online (Green)		8	16	32
	Selected (Orange)		8	16	32
	Power		1(blue)		
	Cascade display		2x 7- Segment (orange)		
Remote	Remote control		KVM control (ActiveX control)		
	Management way		Web		
	Security		DES encryption		
	Resolution		1920×1080@60Hz		
I/R Value			100V-240Vac, 50-60Hz, <1.5A		
Power Consumption			8W	9W	11 W
Environment Requirements	Operating Temperature		0 — 50 °C		
	Store Temperature		-20— 60 °C		
	Humidity		0—80%RH, Non-condensing		
Physical Features	Material		Metal		
	Weight		2.9kg	2.9kg	3.2kg
	Dimension		433x171x44.5mm		

Grounding Requirements

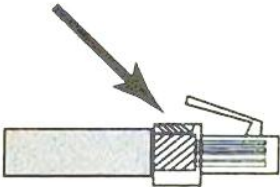
Make sure the KVM and the devices that connected to KVM are all connected to the ground.



To improve the device safety, please make sure the device is connected to the ground and use the STP cable to connect the device.
The STP cable contains four shielded twisted pair and one ground wire, the ground wire should be welded into the RJ-45 connector.



Grounding the STP shield cable (as shown below), and make sure the metal RJ45 connector is tight shield.



Connect one end of the RJ-45 connector to the ground RJ-45 connection socket.

