

KVM-0802IP

User Manual



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1.Description

1.1 Brief Introduction

Matrix KVM-over-IP (Hereinafter refers to Matrix 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 KVM switch, 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

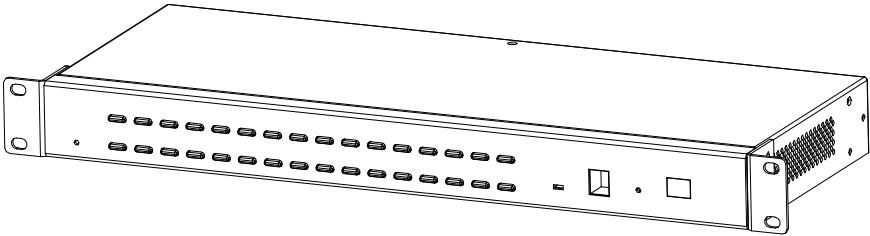
- Control up to 8 / 16 / 32 computers
- Support 1 local user and 1 remote user, port share mode allows local and remote users to gain access to a server simultaneously
- Easy-to-use switching by browser-based UI interface, hotkeys and pushbuttons
- Support servers with VGA/DVI/HDMI/DP port
- Multiplatform client support (Windows, Linux, Unix, Mac, Solaris (Sun), Redhat, Ubuntu)
- Local Console, Browser, and AP GUIs offer a unified Multilanguage interface
- Local resolution is up to 1920 x 1080
- 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
- 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

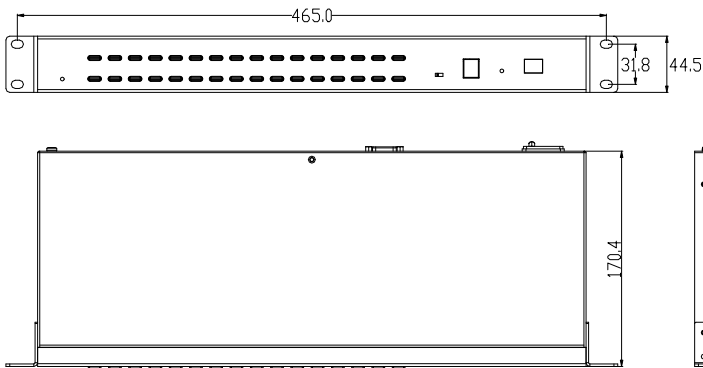
- BIOS-level access
- Video quality and video tolerance can be adjusted to optimize data transfer speed, up to 30 FPS
- Full screen or scalable video display
- Remote users and local users can control the same server synchronously
- Support AES / DES / 3DES encryption
- Support audit function-allows 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
- Supports firmware upgrade

1.2.1 Front View



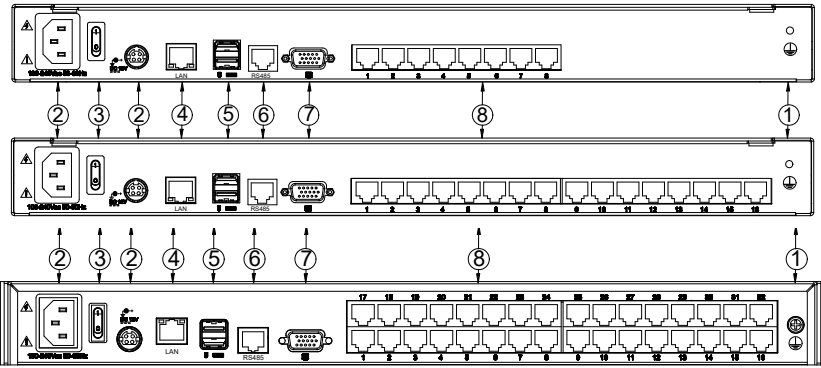
1-1.1 front view

1.2.2 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

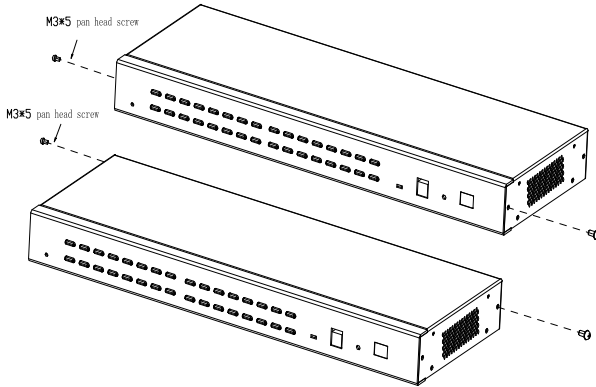
2.Hardware Installation

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.

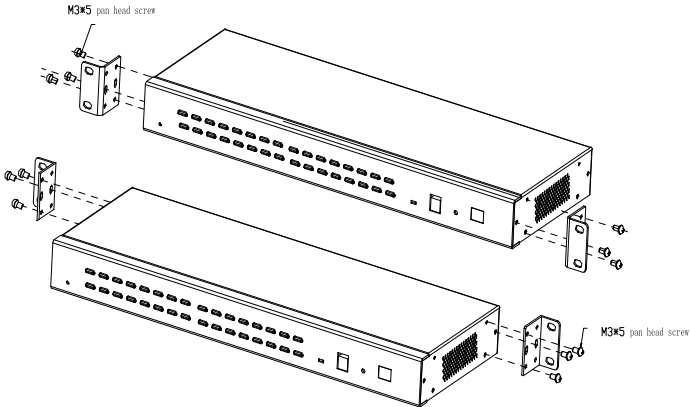
Installation instruction:

- 1) Remove the front or rear screw



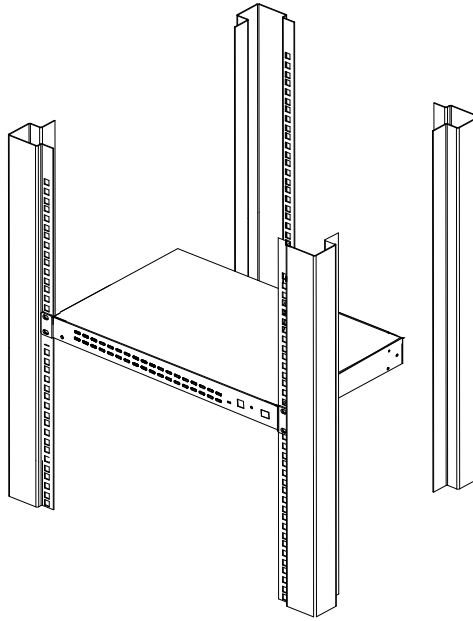
2-1.1

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)

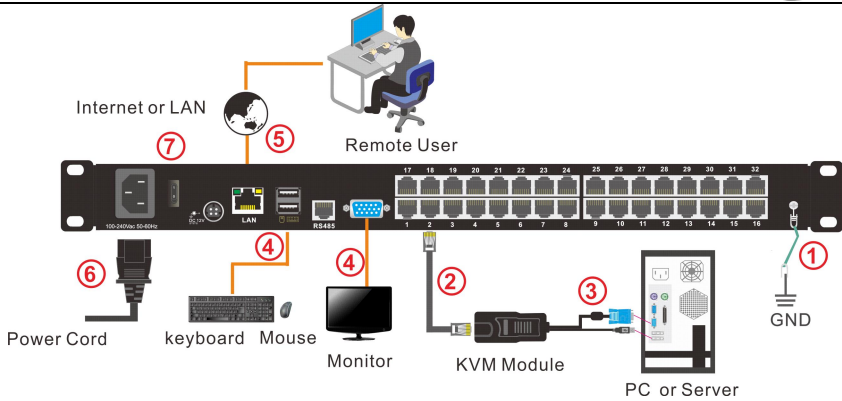


2-1.3

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.



2.3 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.

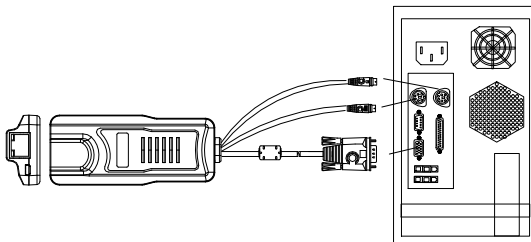


User Name :	admin
Password:	admin

- Power on the computer or server after power on the KVM.

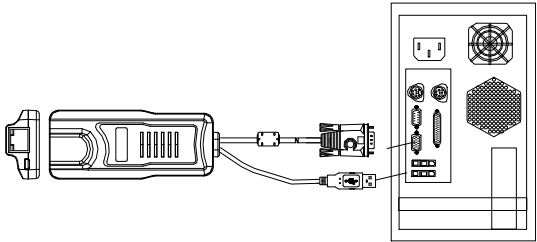
2.4 KVM Adapter

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.Pushbutton operation

3.1 Pushbutton Functions



No.	Components	Function
1	1-32	Switching freely from port 1 to port 32
	Reset	Press 【1】 and 【2】 at the same time for three seconds resets the keyboard and mouse
	Scan	Press 【7】 and 【8】 at the same time for three seconds enters the auto scan mode.
	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.
2	Port Selection Buttons & LEDs	Indicator LEDs are built into the switches, the online LED light is on the left and the selected LED light is on the right. 1) An online LED light (green) indicates that the KVM has connected to its corresponding computer and power on. 2) A selected LED light (orange) indicates that the computer attached to its corresponding port is up and running.
3	Station ID	Display the current 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】**

For details, see Device Information (Page: 21)

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

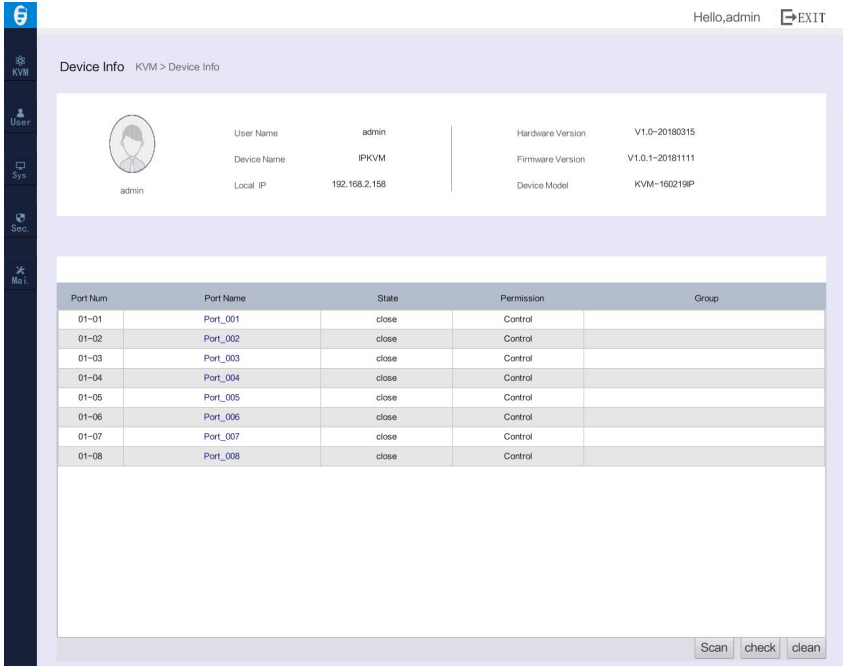
4. User Interface Operation

login UI control menu

User Name: admin

Password: admin

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



Device Info KVM > Device Info

Hello,admin EXIT

User: admin

Device Name: IPKVM

Local IP: 192.168.2.158

Hardware Version: V1.0-20180315

Firmware Version: V1.0.1-20181111

Device Model: KVM-160219P

Port Num	Port Name	State	Permission	Group
01-01	Port_001	close	Control	
01-02	Port_002	close	Control	
01-03	Port_003	close	Control	
01-04	Port_004	close	Control	
01-05	Port_005	close	Control	
01-06	Port_006	close	Control	
01-07	Port_007	close	Control	
01-08	Port_008	close	Control	

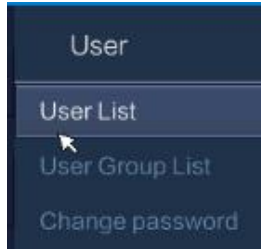
Scan check clean

In the port list,

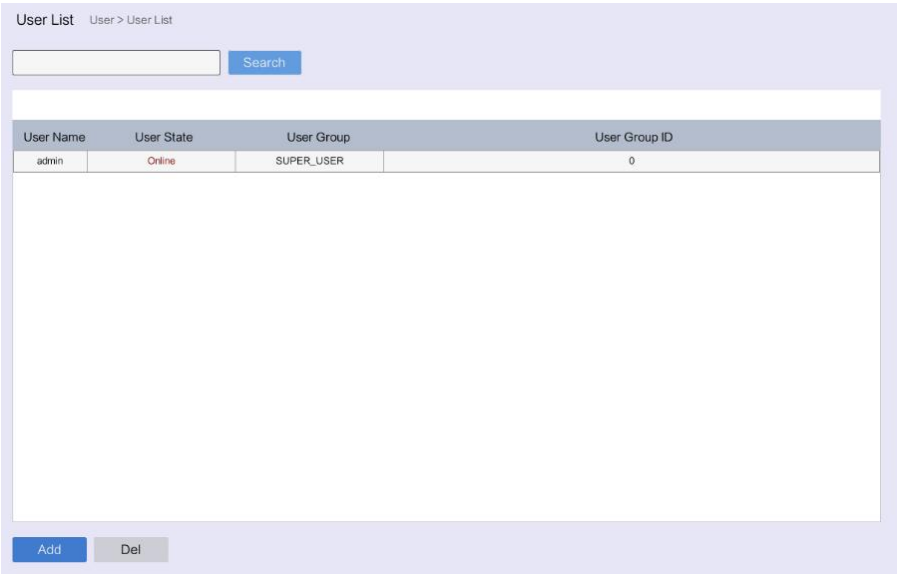
1. Click the "Connect" to enter the host screen;
2. In the host screen, press the [L_Ctrl] key on the keyboard twice.
3. Return to the UI interface.

4.1 User

User management mainly set up for user& user group adding, delete and modifying, 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

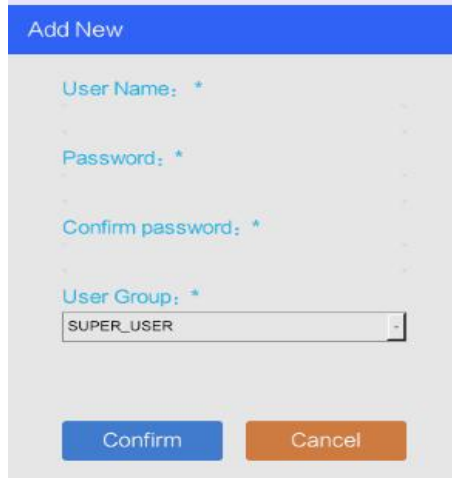


User list interface: List all registered users, you can see more by page turning

- 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:



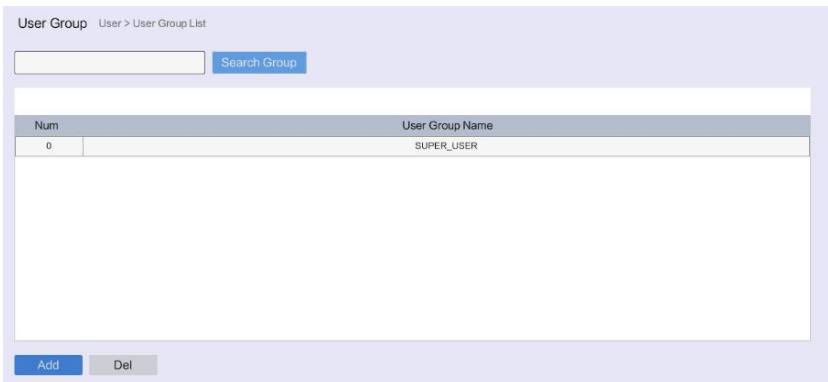
The 'Add New' window contains the following fields and buttons:

- User Name:** * (text input field)
- Password:** * (password input field)
- Confirm password:** * (password input field)
- User Group:** * (dropdown menu showing 'SUPER_USER')
- Confirm** button (blue)
- Cancel** button (orange)

Note: In this window, "*" is required content

4. User name: user name can contains only low case letters, number and "_"
5. 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"
6. User group: Select the corresponding user group

User group list

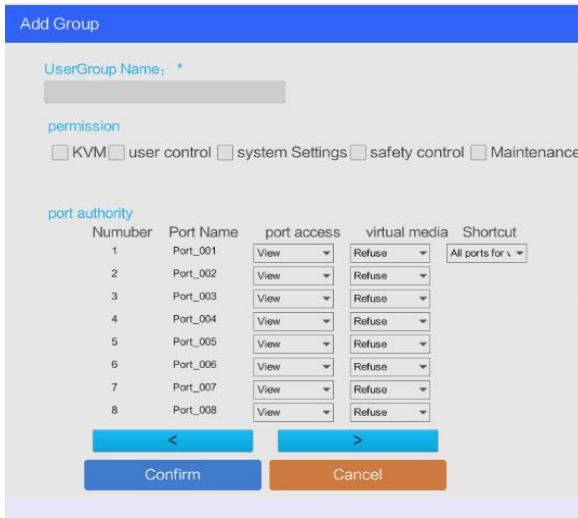


The 'User Group List' interface includes a search bar, a table of user groups, and 'Add'/'Del' buttons.

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

The passwords which is using for logged user

Change Password User > Change Password

Change Password

Original Password : *

New Password : *

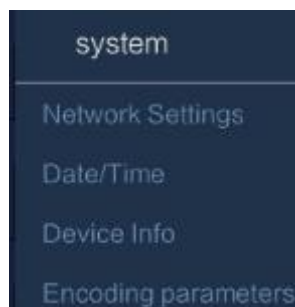
Confirm password : *

Confirm

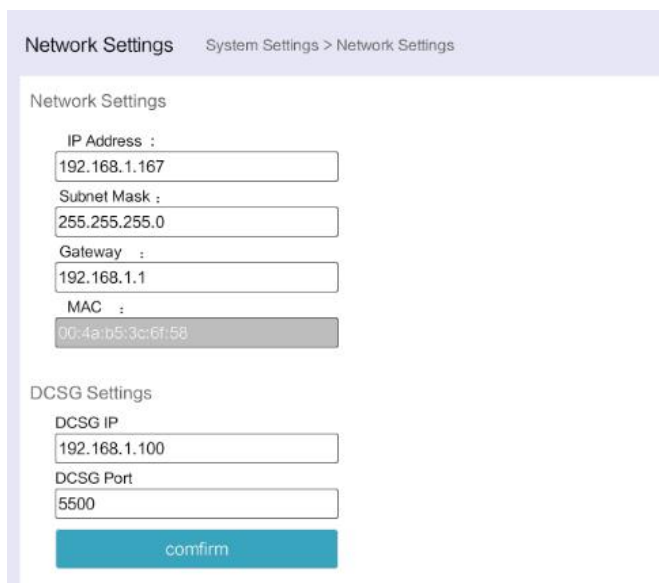
Note: In this window, "*" is required content

1. User name: user name can 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

4.2 System



Network settings

A screenshot of a web-based configuration page titled 'Network Settings'. The breadcrumb trail is 'System Settings > Network Settings'. The page is divided into two sections: 'Network Settings' and 'DCSG Settings'. The 'Network Settings' section contains five input fields: 'IP Address' (192.168.1.167), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.1.1), 'MAC' (00:4a:b5:3c:6f:58), and a 'confirm' button. The 'DCSG Settings' section contains two input fields: 'DCSG IP' (192.168.1.100) and 'DCSG Port' (5500).

IPv4 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

Date Settings System Settings > Date Settings

Date Settings

☒ **User setting time**

Date Settings:

1970-01-14

Time Setting:

13:48:29

☐ Synchronize with the NTP server:

Time server:

202.120.2.101

Select time zone:

West 12 (central Pacific)

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

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

Encoding parameter System Settings > Encoding parameters

Video Formats: PAL

Stream type: Major Stream

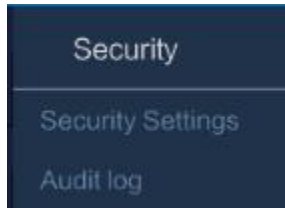
Frame Rate: 25

IP Ratio: 25

Rate Limit: 6MPBS

OK

4.3 Security



Security Settings

Safety management Safety management > Security Settings

login restric

☐ Restrict single sign-on.

☐ password expiration 50 Day

☐ Cancellation user 36 (1~365minutes)

Strong

☐ Enable password

☐ Contain lowercase ☐ Contain uppercase

☐ Contain Number

password depth 3

Min/max length 1 - 16

Login lock

☐ Disable lock

☐ Account lock try 60

☒ Timed lock try 60 Locking 2 (1~1440minutes)

Encryption si

Local info encryption mode No ENCRYPTION

Local device reset mode Enable Local Factor

☐ Encryption mode is applied to KVM and virtual

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 lockout
- Lockout forbidden: when it is selected, lockout will be canceled
- Account lockout: account setting for login attempts failed
- Time lockout: when account logging attempts over the setting times, the time for lockout
- Strong password
- Enable password strength rules: when it is selected, the original password will be forced to be tighten
- Password history depth: new password can not be the same as the latest 3 (default) password, this number can be changed, it ranges from 1-10
- Strong passwords is at least 1 bit and maximum is 16 bits
- Encryption scheme

DES

AES128

AES256

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

Auditlog Security Management > Auditlog

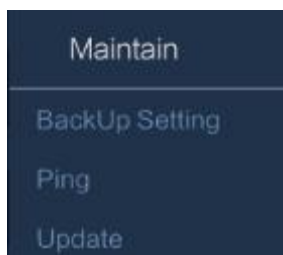
Date: 1970-01-14 00:00:00 - 1970-01-14 13:49:28 Maintype: ALL subtypes: ALL Search

Num	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			

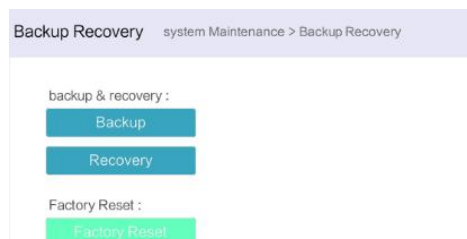
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4.4 Maintenance

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



Backup & Restore

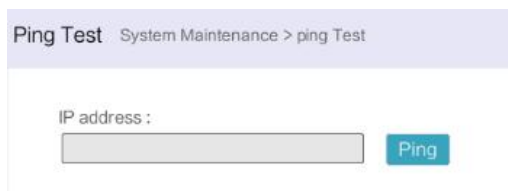


Backup: backup current system settings

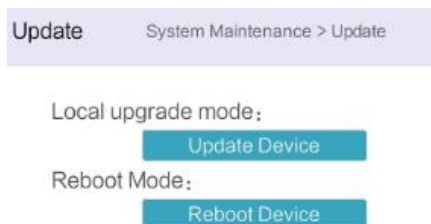
Restore: restore the last backup of system

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

Ping



Update



5.Remote Control

5.1 Configure the Target Server

Before installing and using the IP-KVM Switch, connect and configure the target server first. Refer to below configuration instructions:

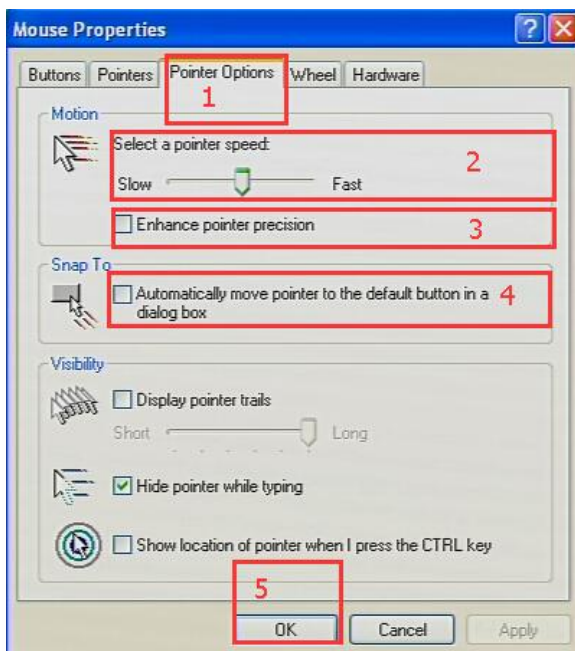
- The digital KVM switch supports below two mouse mode:
 - Absolute mouse mode
 - Relative mouse
 - Intelligent mouse mode

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

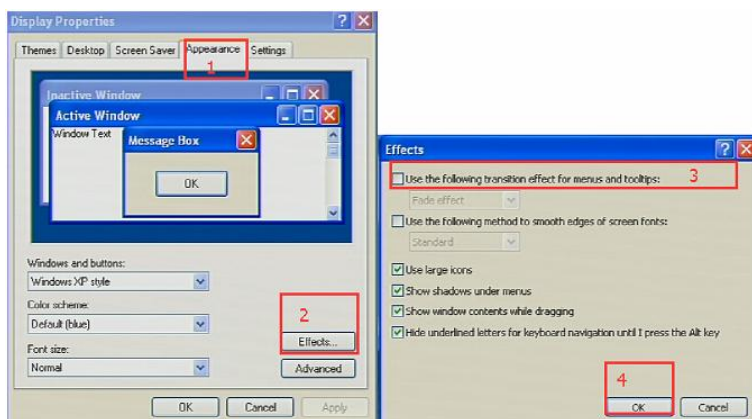
Operating systems: Windows server 2003, Windows server 2005, Windows server 2008, Windows server 2012; Windows XP, Windows 7, Windows 8, Windows 10

- 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



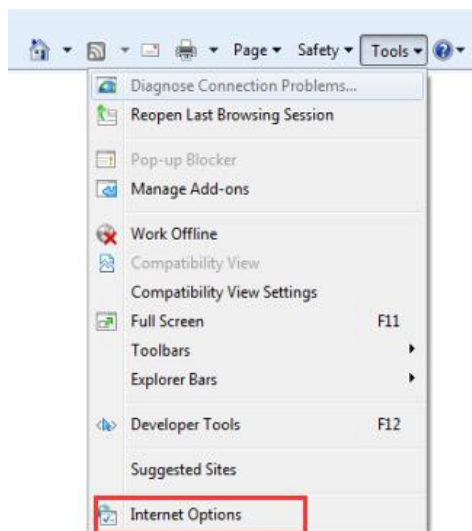
Please follow the steps above to finish the setting.

- Configure the mouse under Linux (ubuntu 10)
- Input "set m 1 1" in the Linux command line terminal and press Enter to finish the mouse setting, as shown below.

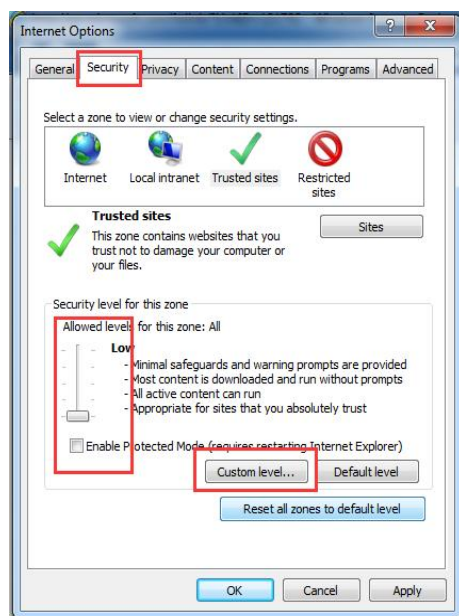
```
File Edit View Search Terminal Help
ADMIN@ubuntu:~$ xset m 1 1
ADMIN@ubuntu:~$
```

5.2 Remote WEB Interface Settings

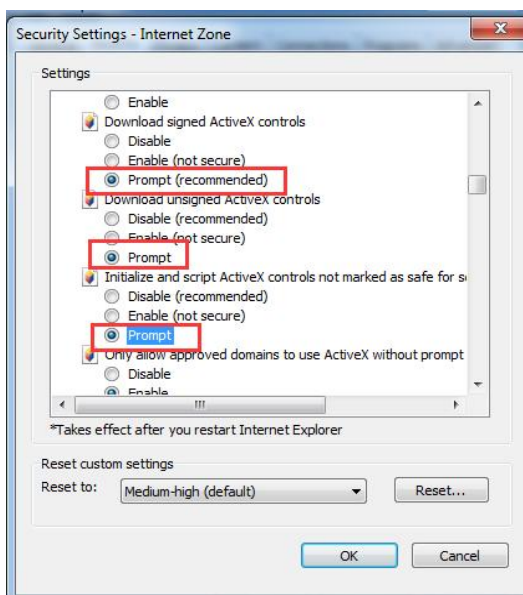
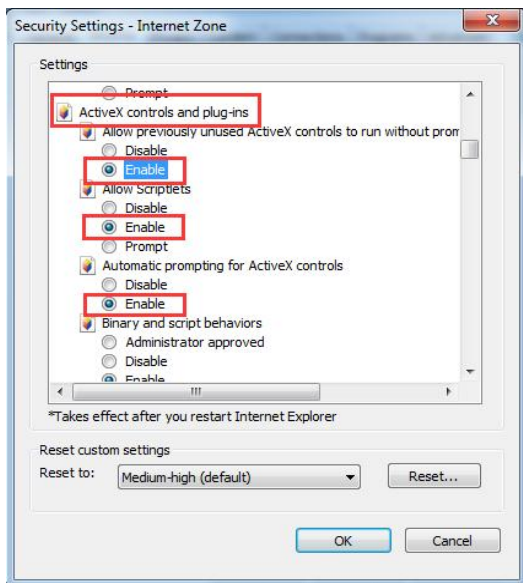
Install and open IE browser, click top-right settings → **【Internet Options】**



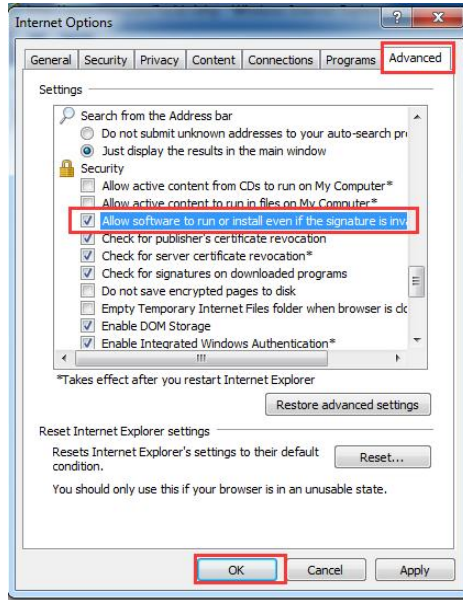
Click **【Security】** → **【Custom Level】**



【ActiveX controls and plug-ins】



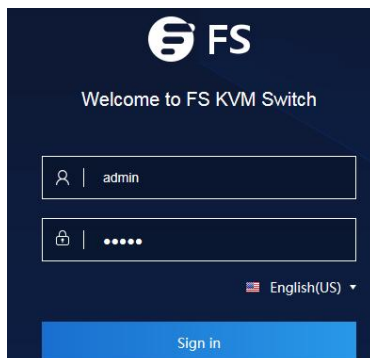
Click **【Advanced】**, find **【Allow software to run or install even if the signature is invalid】** and select it.



5.3 Log in

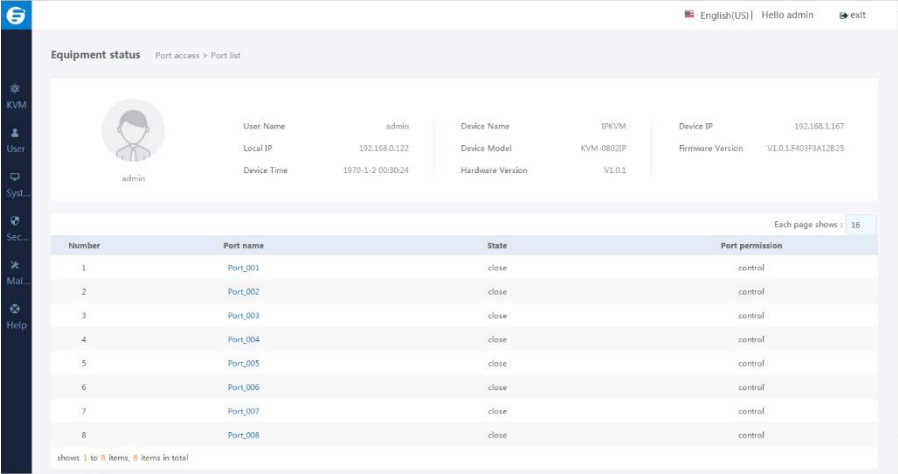
Default Items	Default Value
User name	admin
Password	admin
IP address	192.168.1.167
Notice: For security, please change the password after the first login. between capital and lowercase letters.	Differentiate

After connecting the device, open the web browser: [http:// 192.168.1.167](http://192.168.1.167)



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.



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 KIM 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:

Each page shows : 16

Number	Port name	State	Port permission
1	Port_001 Click to edit the Port Name	close	control
2	Port_002	close	control
3	Port_003	close	control
4	Port_004	close	control

System Settings Home > System Settings > Configure port

Configure Port_1

Name :

Port_001

5.4 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 】



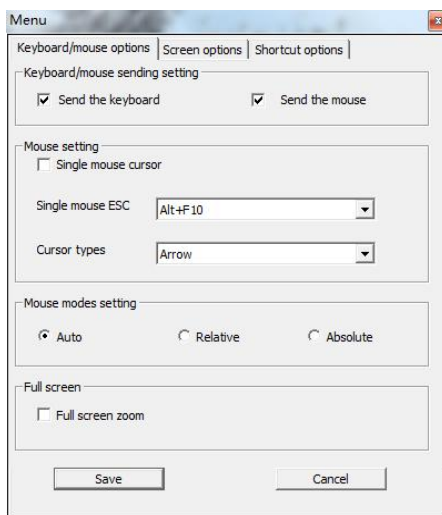
1. Hide or Show Toolbar

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

2. Setting Options

Keyboard & Mouse Options

When user has the authority



Keyboard/mouse sending setting

- Send 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 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 shortcuts and it changes into double mouse mode
- Cursor types: it can set remote user's mouse cursor type in double mouse mode

Mouse Mode

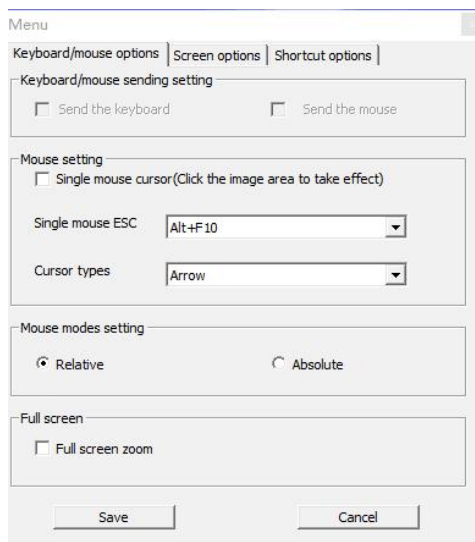
- Relative and absolute modes, latest version only support absolute mode

Full Screen Setting

Full Screen Zoom: When unselected, the video window will spread the video screen full of the remote computer screen in the full screen state; when selected, if 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 below.



Display Option

Display option dialogue shows screen parameters and screen information.

Screen 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:** When automatic calibration canceled, 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:** KXT III 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 needs to select the option by its own.

Menu

Keyboard/mouse options | Screen options | Shortcut options

Frame parameter

☐ Automatic calibration

Contrast

Brightness

Hue

Saturation

Frame information

Resolution IP

Refresh Port

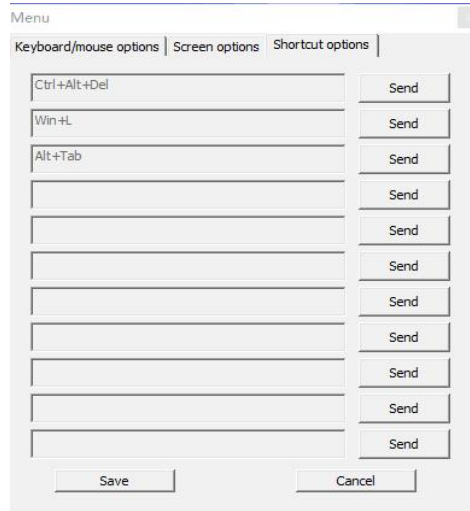
☐ Manual calibration resolution

☐ Target servers picture zooming(for Win10)

Resolution of target

Keyboard Shortcuts

Supports 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.



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



Send [send Ctrl+Alt+Del]

Keyboard Macro: click this button, the target server will receive shortcut key. Send Ctrl+Alt+Del. Bring up the task manager of target server (Windows operating system)

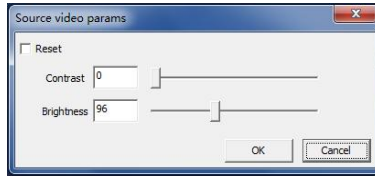
Mouse Synchronization

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.

Single mouse

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

Source video params



Optimum size



The initialization 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.

Full Screen

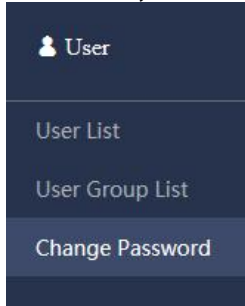


The video window enter full screen mode

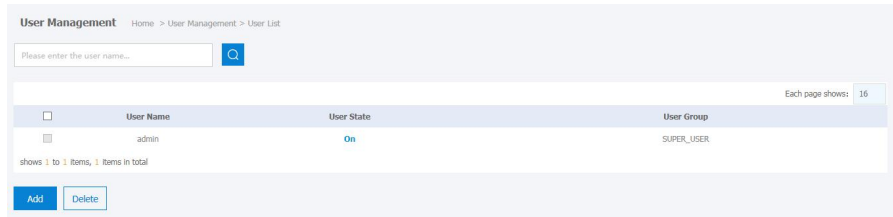
6. IP Menu Option

6.1 User Management

User management mainly set up for user & user group adding, delete and modifying, 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

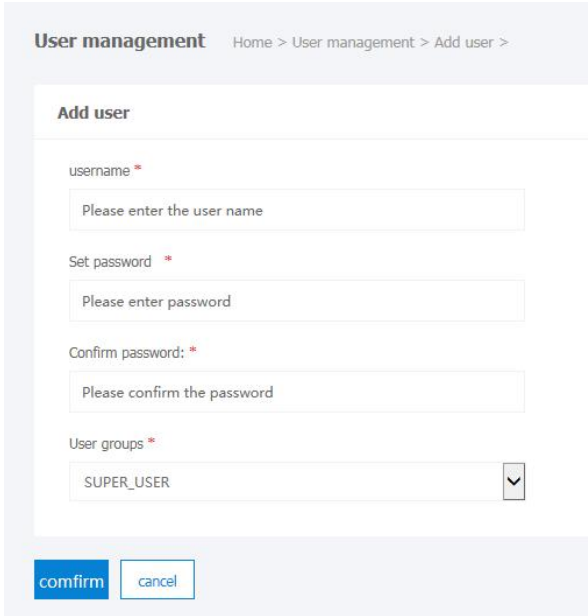


User list interface: list all registered users, you can see more by page turning

- 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:



The screenshot shows a web interface for 'User management'. At the top, there is a breadcrumb trail: 'Home > User management > Add user >'. Below this is a section titled 'Add user'. It contains four input fields: 'username *', 'Set password *', 'Confirm password: *', and 'User groups *'. Each field has a placeholder text: 'Please enter the user name', 'Please enter password', 'Please confirm the password', and 'SUPER_USER' respectively. The 'User groups' field is a dropdown menu with a downward arrow. At the bottom of the form, there are two buttons: 'confirm' (in blue) and 'cancel' (in white with a blue border).

Note: In this window, "*" is required content

1. User name: user name can 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

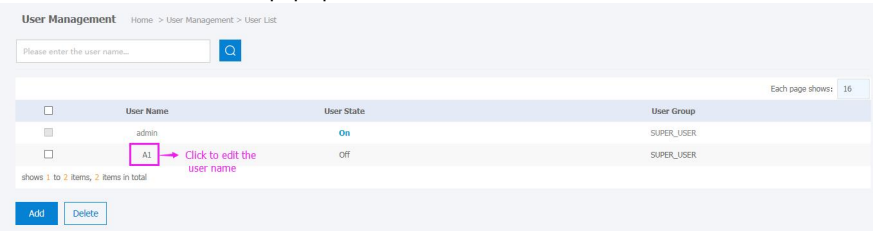
Select the user you want to delete, click **【delete】**



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

Edit user

Click 【A1】, edit user window pop up



User management

Home > User management > Edit user

Edit user

username *

A1

Original password: *

Please enter the original password

New password: *

by1-16letters, Numbers, or special symbols of a bit (-@.\$! _)

Confirm password: *

Please confirm the password

User groups *

SUPER_USER

confirm

cancel

User group list

User management Home > User management > user group list

Please enter the user group name:

Each page shows: 16

☐	group id	user group name
☐	0	SUPER_USER

shows 1 to 1 items, 1 items in total

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

User management Home > User management > add usergroup

add usergroup

usergroup name:

permission + closed - release

☐ port access ☐ user management ☐ system Settings ☐ safety management ☐ system

port authority + closed - release

port number	port name	port access	virtual media
1	Port_001	decline	decline
2	Port_002	decline	decline
3	Port_003	decline	decline
4	Port_004	decline	decline
5	Port_005	decline	decline
6	Port_006	decline	decline
7	Port_007	decline	decline
8	Port_008	decline	decline
9	Port_009	decline	decline
10	Port_010	decline	decline
11	Port_011	decline	decline
12	Port_012	decline	decline
13	Port_013	decline	decline
14	Port_014	decline	decline
15	Port_015	decline	decline
16	Port_016	decline	decline

☐ All ports are rejected
☐ All ports for viewing
☐ All ports are controlled

☐ All VM access is denied
☐ All VM access is read-only
☐ All VM access is read and write

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

Delete User Group

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



The screenshot shows the 'User management' interface with the 'user group list' tab selected. A search bar is at the top. Below it is a table with columns 'group id' and 'user group name'. The table contains two rows: one for 'SUPER_USER' (group id 0) and one for an unnamed group (group id 1). The 'delete' button is highlighted with a red box and a red arrow pointing to it. The 'SUPER_USER' group is highlighted with a red box and a red arrow pointing to it.

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"



The screenshot shows the 'User management' interface with the 'user group list' tab selected. A search bar is at the top. Below it is a table with columns 'group id' and 'user group name'. The table contains two rows: one for 'SUPER_USER' (group id 0) and one for an unnamed group (group id 1). The '1' in the 'user group name' column is highlighted with a red box and a red arrow pointing to it. The 'Click to edit User group Name' text is also highlighted with a red box and a red arrow pointing to it.

Change Password

The passwords which is using for logged user

User Management

Home > User Management > Change Password

Change Password

Original Password: *

Please enter the original password

New Password: *

Please enter the new password

Confirm Password: *

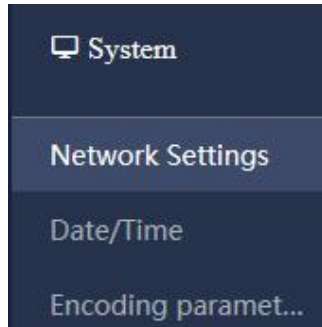
Please enter your new password again

Confirm

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 Settings



Network Setting

System Settings Home > System Settings > Network Settings

Nic set

IPv4 address :

Subnet mask :

default gateway :

mac address :

DCSG Ip:

DCSG Port :

IPv4 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

Device Settings
Home > Device Settings > Date/Time Setting

Date/Time Setting

☒ User Specified

Date Settings:

2019-01-15

Time Settings:

13:20

☐ NTP Server Settings

NTP 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

Device Settings
Home > Device Settings > 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

Security Management Home > Security Management > Security Settings

Login Restrictions ☐ Restrict Single Sign-on. ☐ Enable Password Expiration: 50 (1~365day) ☐ Cancellation Free User: 36 (1 ~ 60 minutes)	Login Lock ☒ Disable Lock ☐ Account Lock: 60 Attempts ☐ Timed Lock: Attempts 60, Locking Time 2 (1-1440 minutes)
Strong Password ☐ Enable Password Strength Rules ☐ At least one lowercase letter. ☐ At least one capital letter. ☐ At least one numeric character. ☐ At least one special character. - User password history depth: 3 - Minimum/maximum Password Length: 1 - 16	Encryption Scheme - Local information encryption mode: No encryption - Encryption mode is applied to KVM and virtual media. ☐ - Local device reset mode: Enable Local Factory Reset

[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 lockout

- Lockout forbidden: When it is selected, lockout will be canceled
- Account lockout: Account setting for login attempts failed
- Time lockout: When account logging attempts over the setting times, the time for lockout

Strong password

- Enable password strength rules: when it is selected, the original password will be forced to be tighten
- Password history depth: new password cannot be the same as the latest 3 (default) password, this number can be changed, it ranges from 1-10
- Strong passwords is at least 1 bit and maximum is 16 bits

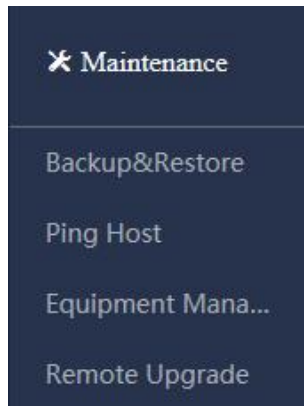
Encryption scheme

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

Audit Log

Security Management				
Home > Security Management > Audit Log				
Main type:	All	Subtypes:	All	Date Selection: 1970-01-01 00:00:00 to 1970-01-01 02:23:47 
				Each page shows: 16
Number	Date	Main Type	Subtypes	Instructions
1	1970-01-01 00:00:24	operations	system boot	The user 'admin' 'system boot' on the host IP is '127.0.0.1'
2	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
3	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
4	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
5	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
6	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
7	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
8	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
9	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
10	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
11	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
12	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
13	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
14	1970-01-01 00:00:33	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.167'
15	1970-01-01 00:00:34	operations	system boot	The user 'admin' 'system boot' on the host IP is '127.0.0.1'
16	1970-01-01 00:00:34	operations	user login	The user 'admin' 'user login' on the host IP is '192.168.0.167'

6.4 System Maintenance



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

Backup & Restore

System Maintenance

Home > System Maintenance > Backup Recovery

Backup Configuration File

Confirm

Recovery

Restore Backup Recovery : Recovery

Factory Reset

Factory Reset :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

System Maintenance

Home > System Maintenance > Ping the host

IP Address

Ping

Result

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).

Equipment Management

System Maintenance

Home > System Maintenance > Equipment Management

Reboot deviceReboot Mode : [Reboot device](#)**Remote Upgrade**

Provide users with better upgrade experience and continuous technical support

System Maintenance

Home > System Maintenance > Remote Upgrade

Upload Files[Browser](#)

Unselected File

[Upgrade](#)**Upgrade Method:**

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

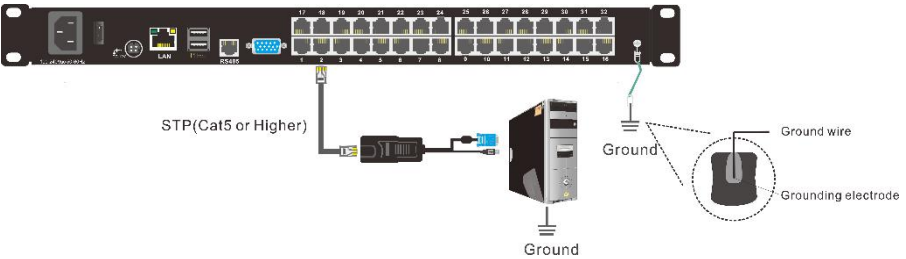
7. Appendix

7.1 Specifications

Model			8 Port	16 Port	32 Port
Computer Connection			8	16	32
Port selection			8	16	32
Port selection			Pushbutton, OSD menu, Web		
Connector	Console	Keyboard Mouse	2 * USB TYPE A		
		Monitor	1-HDB-15 Female(blue)		
	KVM Port (RJ-45)		8	16	32
	Upgrading switch		1* RJ11 Female		
	Power		3-Prong AC socket		
	Port Selection		8	16	32
Switch	Reset		1* touch-button		
	Upgrading switch		1* toggle switch		
	Power		1* rocker switch		
LEDs	Online(Green)		8	16	32
	Selected(Orange)		8	16	32
	Power		1(blue)		
	Cascade display		2*7- Segment (orange)		
	Remote control		KVM control (ActiveX control)		
Remote	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		433*171*44.5mm		

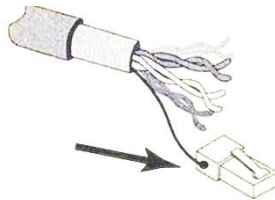
7.2 Grounding Requirements

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

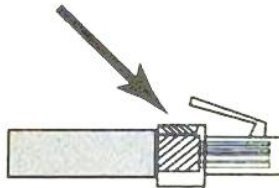


To improve the device safety, please make sure the device is connected to the ground and use the STP cable to connect the device.

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.

