

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

(HT1108/ HT1116 / HT1132)



www.kinankvm.com

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1. Product Overview

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 40M.

1.2 Features

Hardware Features

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

Local Console

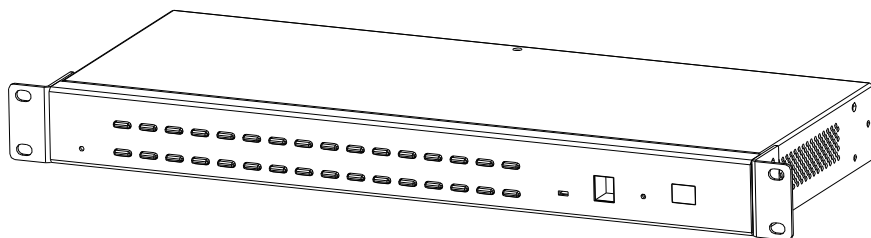
- Control up to 8 / 16 / 32 computers
- Support 1 local user and 1 remote user, port share mode allows local and remote users to gain access to a server simultaneously
- Easy-to-use switching by browser-based UI interface, hotkeys and pushbuttons
- Support servers with VGA/DVI/HDMI/DP port
- Multiplatform 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
- Auto scan feature for monitoring user-selected computer
- Hot pluggable--add or remove computers without having to power down the switch

Remote Console

- Supports two LAN ports (LAN1: 100Mbps, LAN2: 1000 Mbps) network
- Supports https
- WEB browser-based Or **kvmCtrlEN** 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** 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

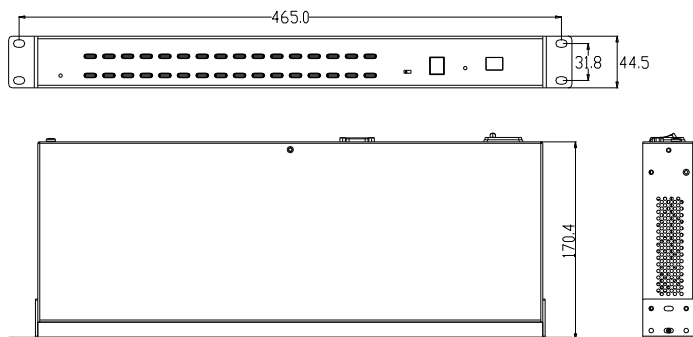
1.3 Appearance

Front View



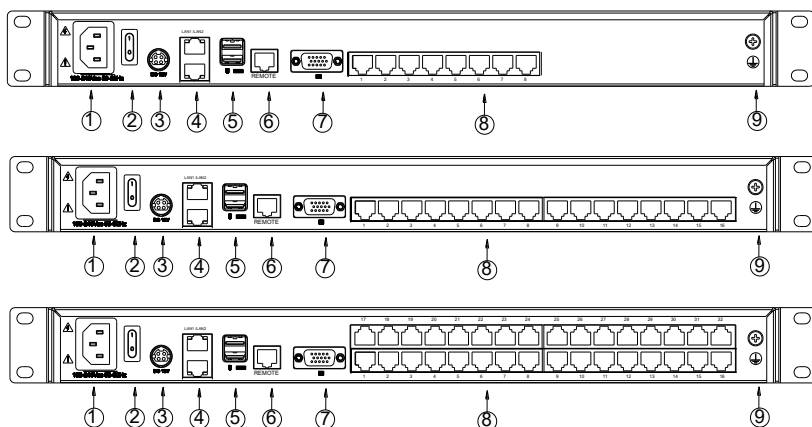
1-1.1 front view

Structure and Size



1-1.2

Rear view



1-1.3

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

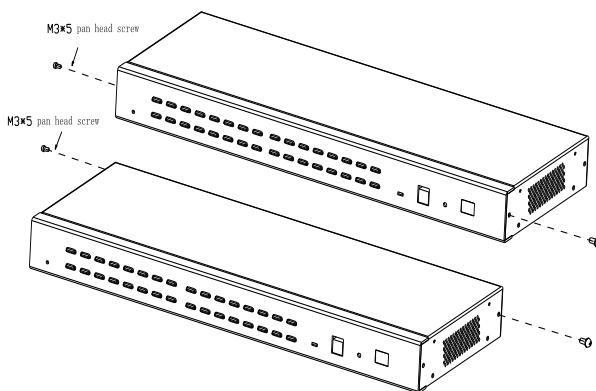
2. Hardware Installation

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.

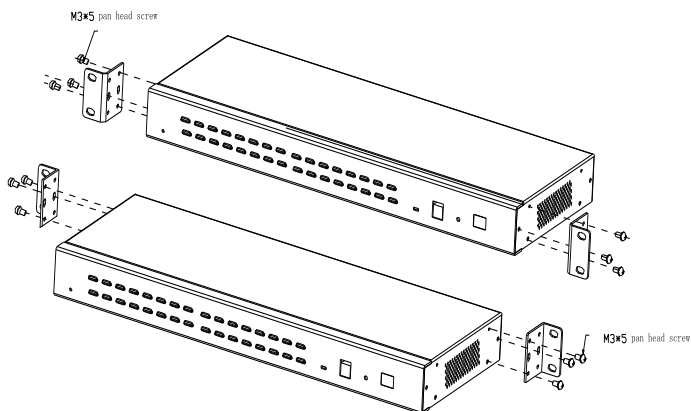
Installation instruction:

1) Remove the front or rear screw



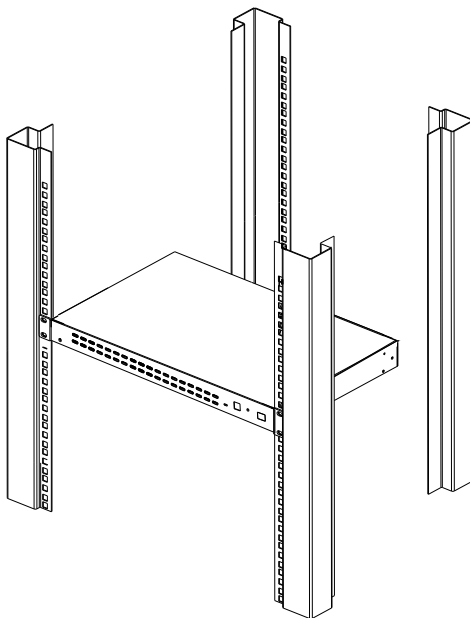
2-1.1

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)

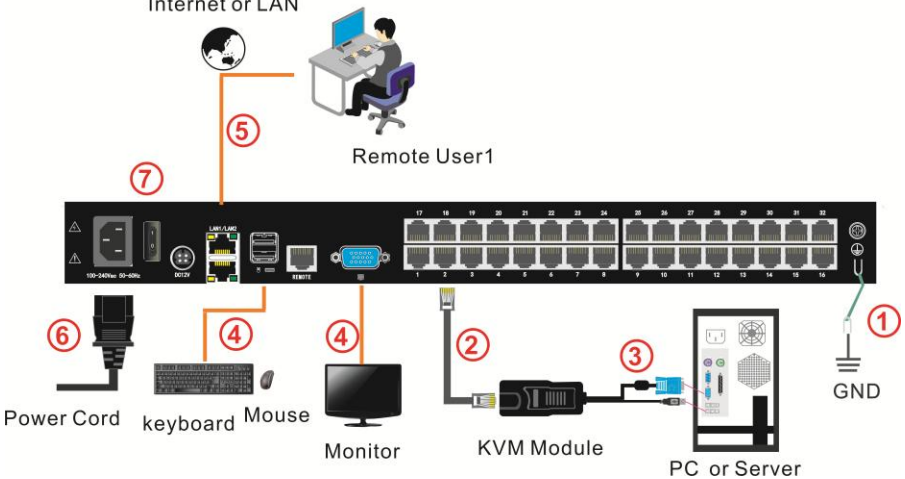


2-1.3

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 number ② 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 number ⑥ 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
Internet or LAN



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:

Password:

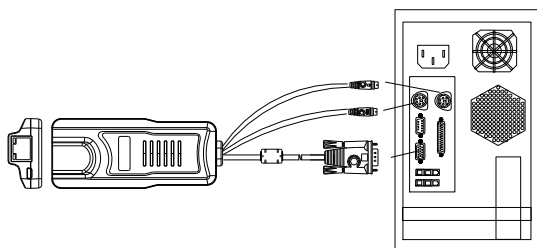
☐ Keep Password
 ☐ Keyboard
 ☐ Show Password

Login

User Name:	admin
Password:	admin

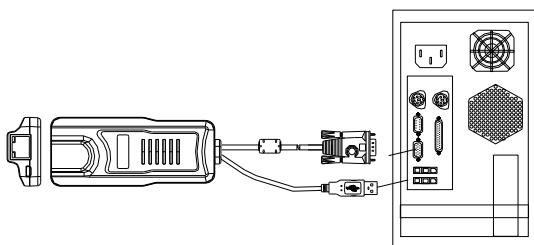
2.4 KVM Adapter

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

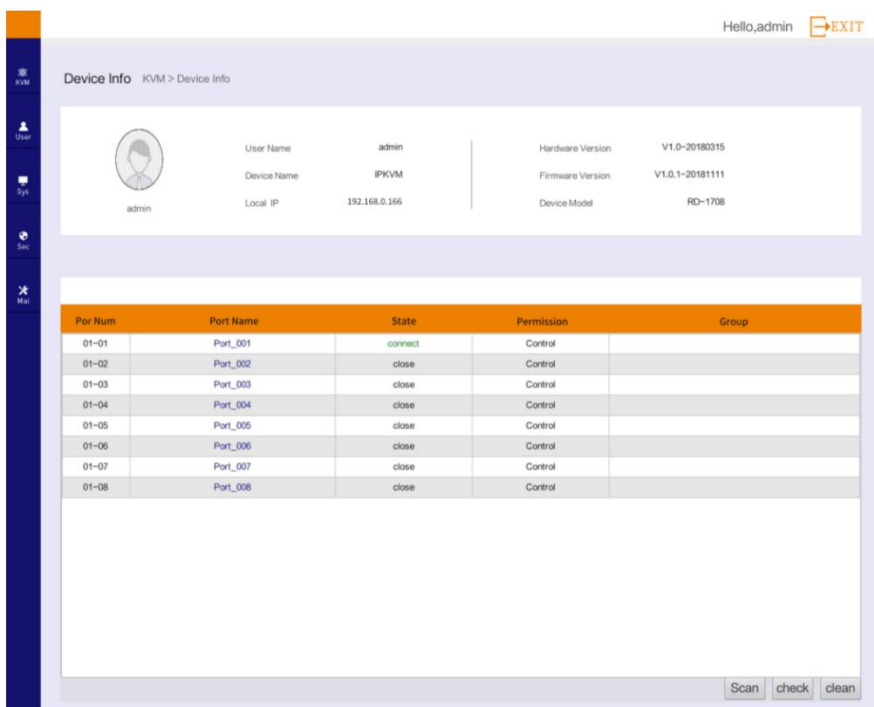
Function	Operating	Function description
Port switch	+Number	Skip ports from 1~32
	+ 【↑】 / 【→】	Skip to previous port
	+ 【↓】 / 【←】	Skip to next port
Brightness	+ 【+】	+
	+ 【-】	-
definition	+ 【>】	+
	+ 【<】	-
Reset Video	+ 【R】	Reset the video
Lock KVM	+ 【L】	Lock KVM and a user login window appears

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.



The screenshot displays the KVM web interface. At the top right, it says "Hello, admin" with an "EXIT" button. The main header is "Device Info KVM > Device Info". Below this, there's a user profile section for "admin" with a circular icon. To the right of the profile, there's a table of device specifications:

User Name	admin	Hardware Version	V1.0-20180315
Device Name	IPKVM	Firmware Version	V1.0.1-20181111
Local IP	192.168.0.166	Device Model	RD-1708

Below the specifications, there's a table showing the status of 8 ports:

Port Num	Port Name	State	Permission	Group
01-01	Port_001	connect	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	

At the bottom right of the port table, there are three buttons: "Scan", "check", and "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.
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
 - ✧ "busy" shows that port is access by local or remote users.

■ Port name modification and scan time setting

Configure Port

Port Name:

Port_001

Scan time:
(5~255)s

5

confirm

Click on the corresponding port name to bring up the "Configure Port" interface (where you can modify the name and scan time).

■ Scan the operation

Device Info

KVM > Device Info


admin

User Name

admin

Device Name

IPKVM

Local IP

192.168.0.166

Hardware Version

V1.0~20180315

Firmware Version

V1.0.1~20181111

Device Model

RD-1708

Scan

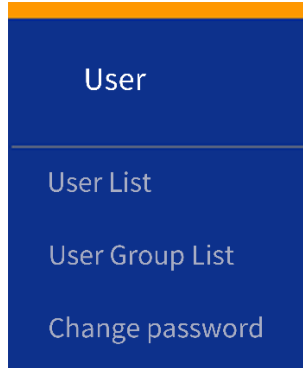
check

clean

Click the corresponding scan in the "Select Group" column. The appeared checkmark indicates that it is selected. Then press "Scan" to perform the operation. To select all or clear, press "check" or "Clear".

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
User > User List

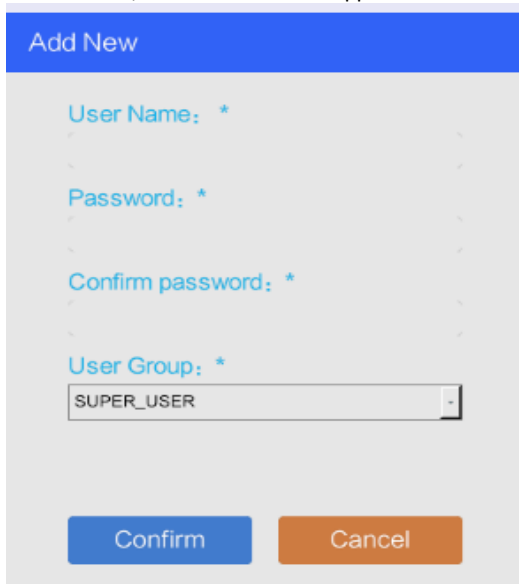
User Name	User State	User Group	User Group ID
admin	Online	SUPER_USER	0

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 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

User group list

User Group User > User Group List

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	

- 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.

Change Password
User > Change Password

Change Password

Original Password : *

New Password : *

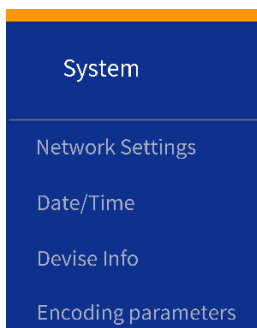
Confirm password : *

Confirm

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

Network Settings System Settings > Network Settings

Network Settings

IP Address :
192.168.0.166

Subnet Mask :
255.255.255.0

Gateway :
192.168.1.1

MAC :
00:4a:b5:3c:6f:58

DCSG Settings

DCSG IP
192.168.1.100

DCSG Port
5500

confirm

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

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

Equipment information

Device Info
System Settings > Device Info

Device name
IPKVM
Keyboard
ENG

KVM Hot-key
Double-click the left Ctrl

Funtion 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

Device Name: Can be modified

Keyboard: ENG(American), FRA(French) , DEU(German), ESP(Spanish)

Encoding parameters

Encoding parameter
System Settings > Encoding parameters

Video Formats:

Stream Type:

Frame Rate: 0

IP Ratio: 25

Stream Rate: 12MPBS

Frame Setting: Hing Rate

OK

4.3 Security

Security

Security Settings

Audit log

Security Settings

Safety management Safety management > Security Settings

login restric

☐ Restrict single sign-on.

☐ Cancellation user (1~365minutes)

Login lock

☐ Disable lock

☐ Account lock try

☒ Timed lock try Locking (1~1440minutes)

Strong

☐ Enable password

☐ Contain lowercase ☐ Contain uppercase

☐ Contain Number

password depth

Min/max length -

Encryption s

Local info encryption mode

Local device reset mode

☐ Encryption mode is applied to KVM and virtual

- 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
 - ✧ 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 4 bit to 16 bits.
- Encryption mode
 - ✧ Local information encryption mode: AES256 three encryption schemes and one un-encryption scheme
 - ✧ Encryption mode 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			

<

>

4.4 Maintain

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

Maintain

BackUp Setting

Ping

Update

Backup& Restore

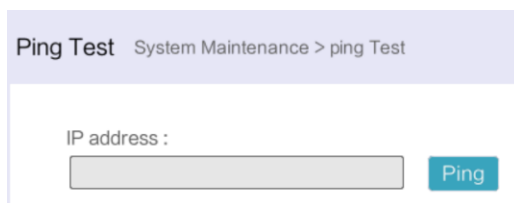


Backup: backup current system settings

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:

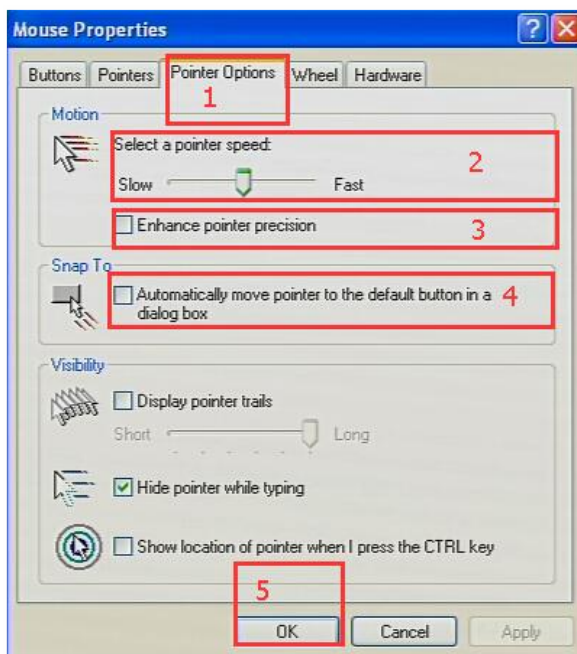
- The digital KVM switch supports below two mouse mode:
 - Absolute mouse mode
 - Relative mouse
 - Intelligent mouse mode

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

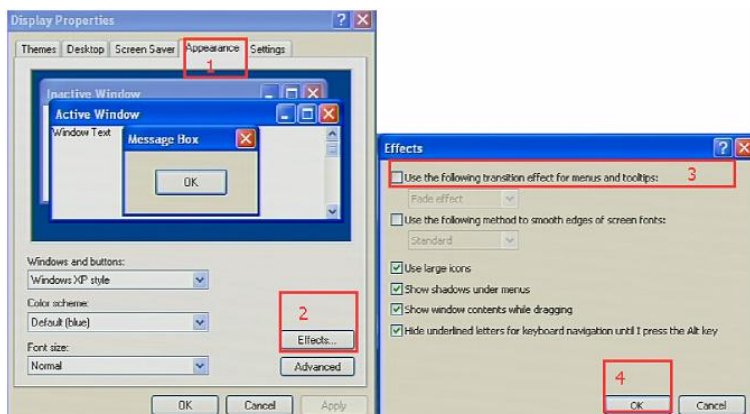
Operating systems: Windows server 2003, Windows server 2005, Windows server 2008, Windows server 2012; Windows XP, Windows7, Windows8, Windows10

- Set Mouse Precision
Start—>Control Panel—> [Hardware] —>Mouse



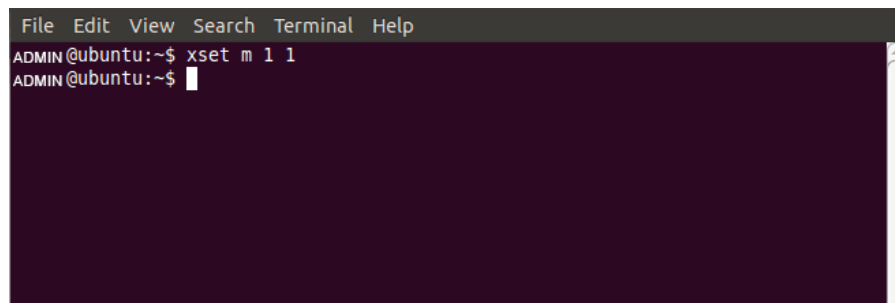
Please follow the steps above to finish the setting.

Set up the display of the target server under Windows XP, Windows 2003, Windows2008
Start—>Control Panel—>[Hardware]—>Display



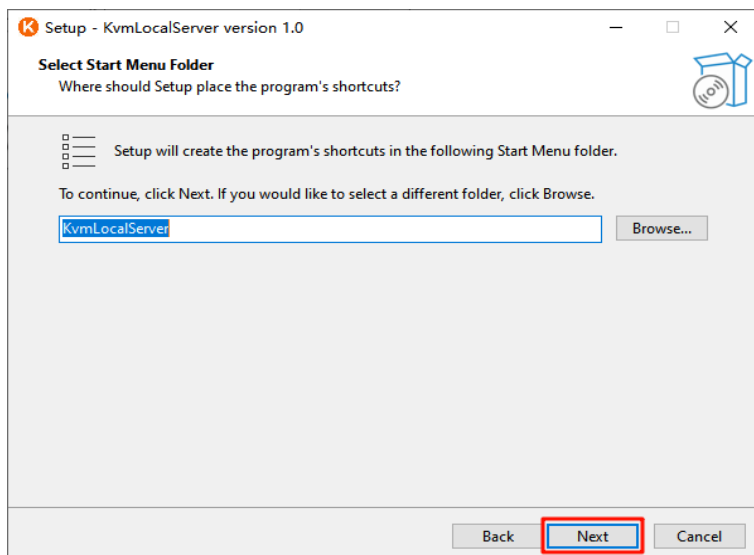
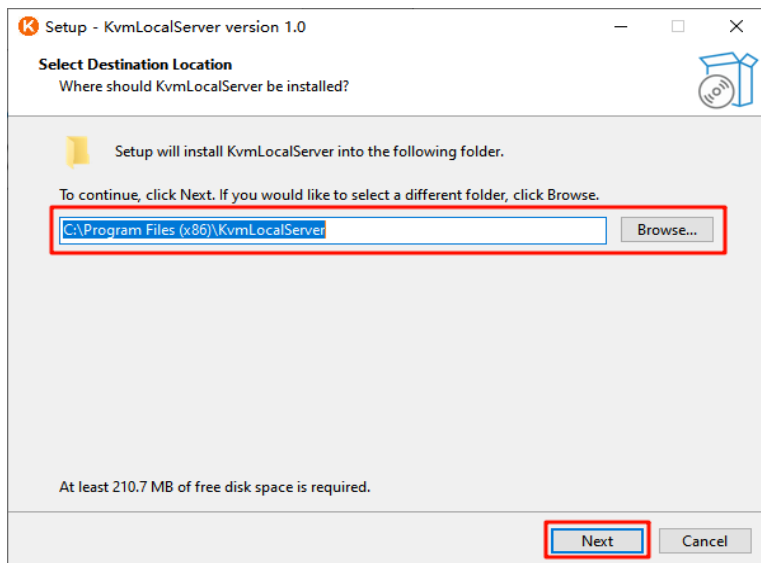
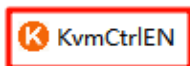
Please follow the steps above to finish the setting.

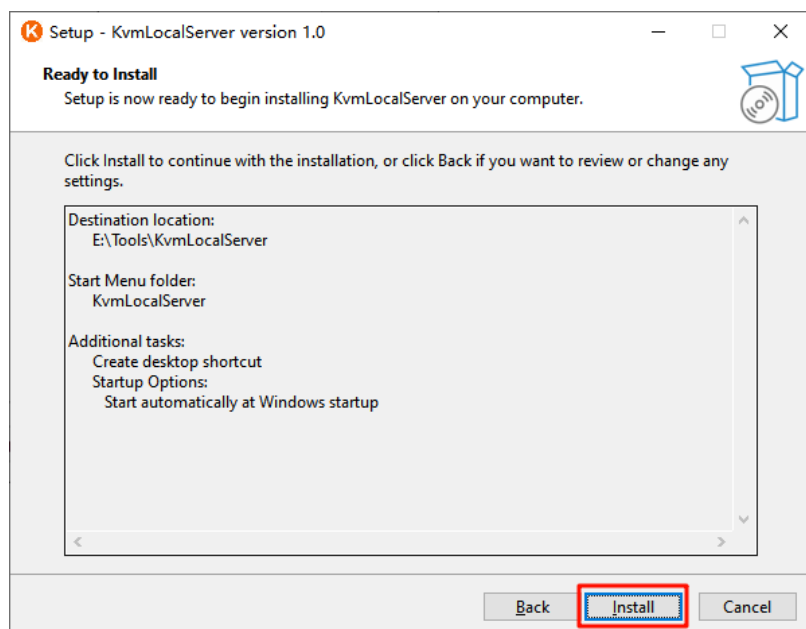
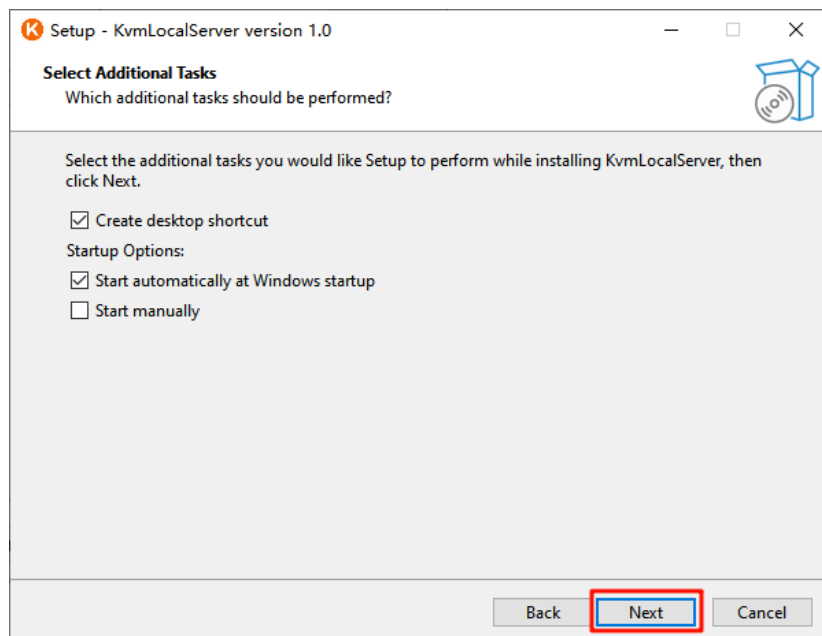
- Configure the mouse under Linux (ubuntu 10)
- Input “set m 1 1” in the Linux command line terminal and press Enter to finish the mouse setting, as shown below.

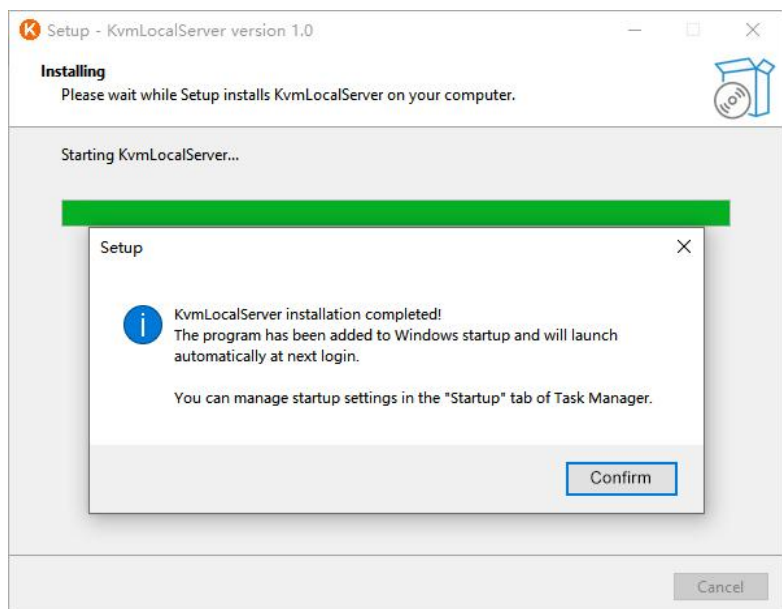
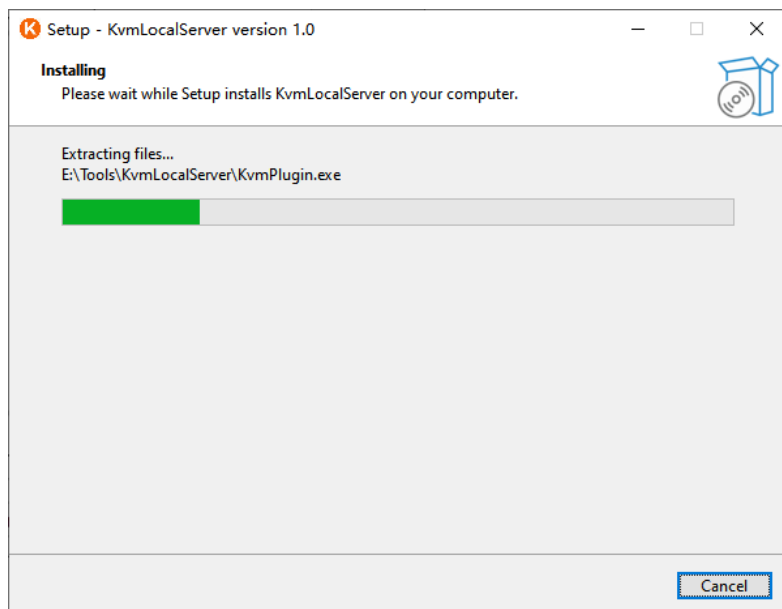


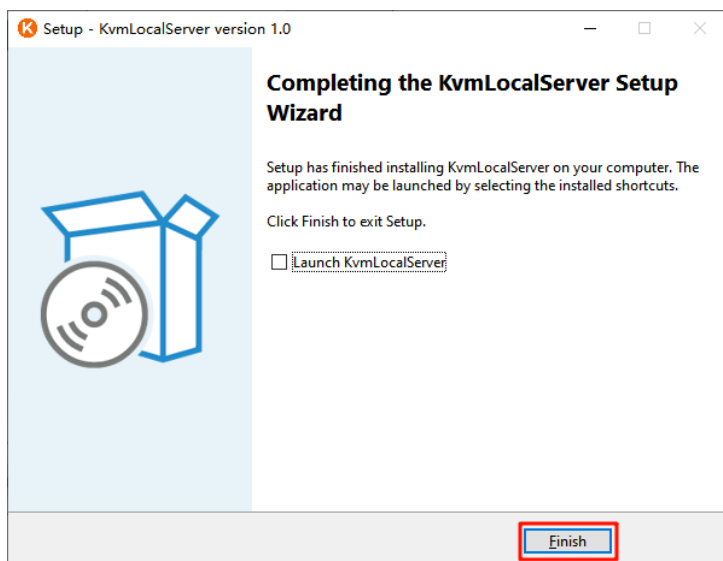
5.2 Remote WEB interface settings

Double-click to launch the application. The default installation path is Drive C, which can be modified. The installation steps are shown in the figure below:







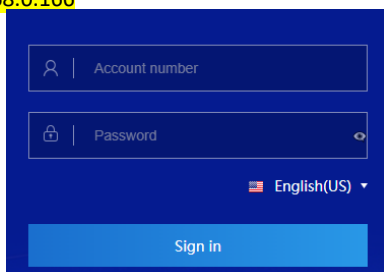


5.3 Log in

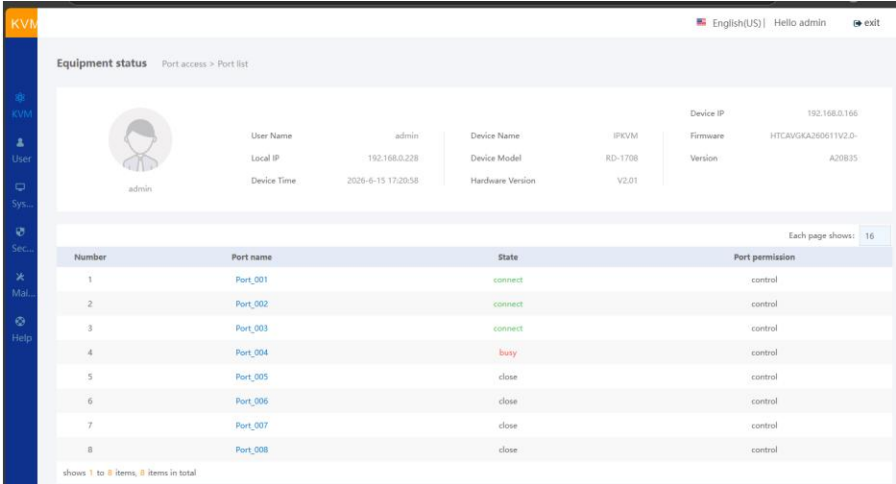
Default Items	Default Value
User name	admin
Password	admin
IP address	192.168.0.166

Notice: For security, please change the password after the first login.
Differentiating between capital and lowercase letters.

Connect the device, then open the web browser, such as Chrome、Firefox、Edge and etc.
[http:// 192.168.0.166](http://192.168.0.166)



User Name: admin
password: admin



The screenshot shows the 'Equipment status' page with a 'Port access > Port list' breadcrumb. It displays user information for 'admin' and a table of KVM ports. The table has columns: Number, Port name, State, and Port permission. The states are 'connect', 'connect', 'connect', 'busy', 'close', 'close', 'close', and 'close'.

Number	Port name	State	Port permission
1	Port_001	connect	control
2	Port_002	connect	control
3	Port_003	connect	control
4	Port_004	busy	control
5	Port_005	close	control
6	Port_006	close	control
7	Port_007	close	control
8	Port_008	close	control

Access status of the KVM ports, three connection status:

1. busy
2. Connected
3. close

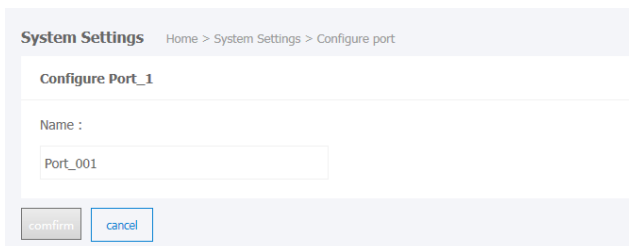
- ✧ “Connected” shows the target KVM is connected to the KVM port; users can access to the target anytime.
- ✧ “close” shows that the KVM is not connected to the KIM adapter or the target server, or the target server is not boot up.
- ✧ “busy” shows that port is access by local or remote users.

Edit Port Name:



The screenshot shows the 'Port list' table. The first row is highlighted, and a pink box around 'Port_001' has a pink arrow pointing to the text 'Click to edit the Port Name'.

Number	Port name	State	Port permission
1	Port_001	close	control
2	Port_002	close	control
3	Port_003	close	control
4	Port_004	close	control



The screenshot shows the 'System Settings' page with the breadcrumb 'Home > System Settings > Configure port'. The 'Configure Port_1' dialog box is open, showing a 'Name' field with the value 'Port_001' and two buttons: 'confirm' and 'cancel'.

Remote Window Menu Bar Functions



【Mouse Sync】

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.

【Setting Option】

Hotkey:	Send preset keyboard hotkeys to the local host of the current port.
Video correct:	Adjust Display Window Position: Move the current window in four directions and reset to default.
Vide quality:	Adjust Display Window Quality: Adjust the video quality of the current window, such as brightness, contrast, colour, and reset function.
Mouse settings:	
X	Close Window: Close the window of the Send Hotkeys function

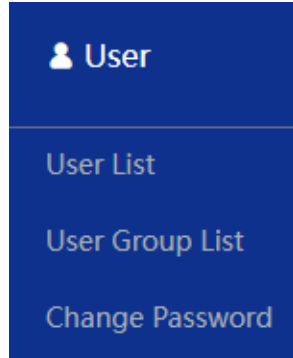
【Hide Window】

Hide the top function menu bar. Press ESC to pop up the control window toolbar.

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

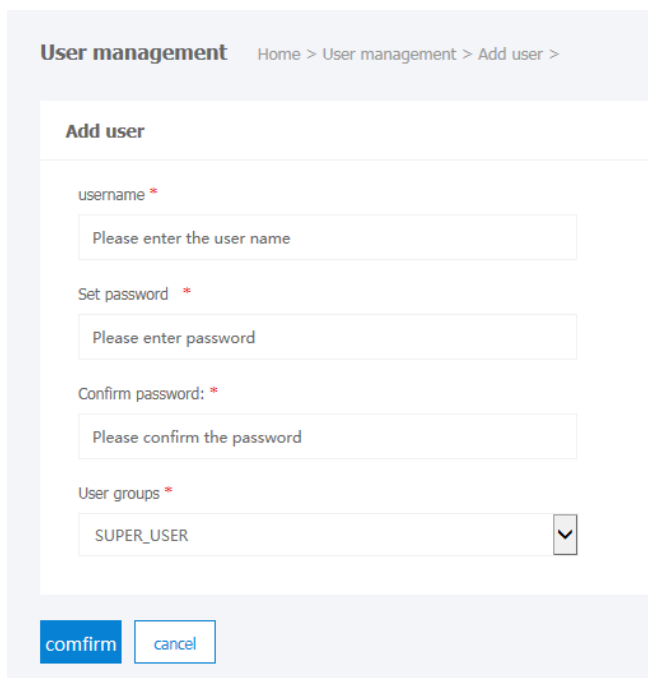
User Management			
Home > User Management > User List			
Please enter the user name...			
Each page shows: 16			
☐	User Name	User State	User Group
☐	admin	On	SUPER_USER
shows 1 to 1 items, 1 items in total			
Add Delete			

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:



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**



User Management Home > User Management > User List

Please enter the user name...

Each page shows: 16

☐	User Name	User State	User Group
☐	admin	On	SUPER_USER
☒	A1	Off	SUPER_USER

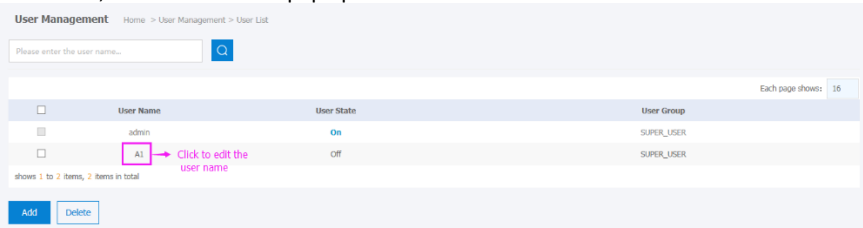
shows 1 to 2 items, 2 items in total

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



User Management Home > User Management > User List

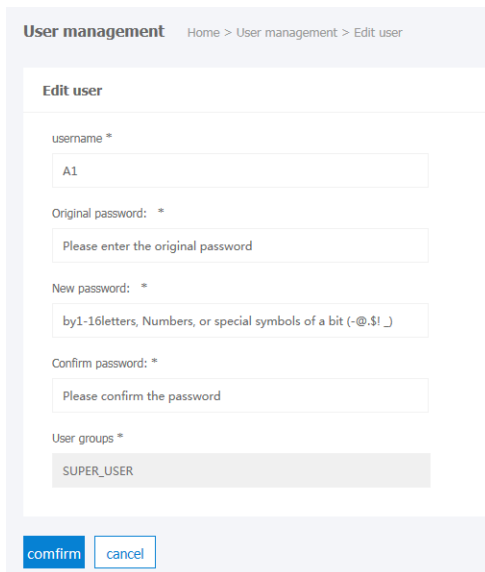
Please enter the user name...

Each page shows: 16

☐	User Name	User State	User Group
☐	admin	On	SUPER_USER
☐	A1	Off	SUPER_USER

shows 1 to 2 items, 2 items in total

Add Delete



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: 36

group id	user group name
0	SUPER_USER

shows 1 to 1 items, 1 items in total

[Add](#) [delete](#)

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

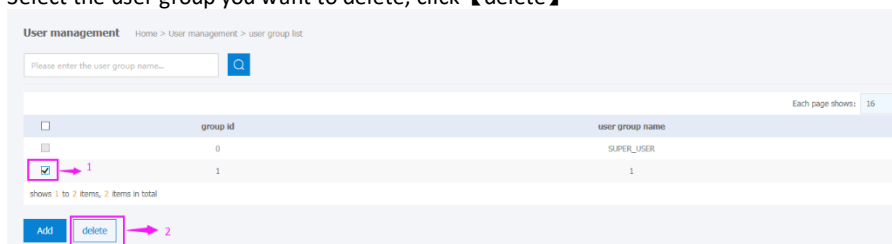
☐ All VM access is read and write

[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

Delete User Group

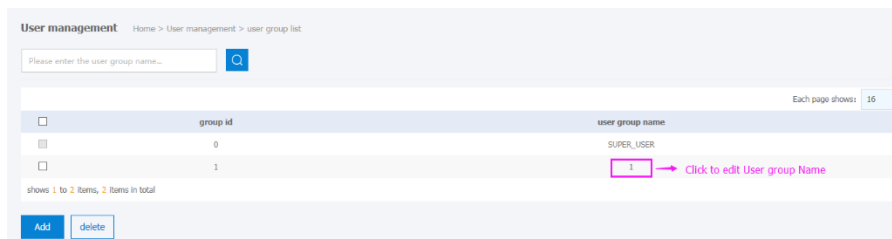
Select the user group you want to delete, click **delete**



Note : SUPER_USER is system allocated which cannot be deleted

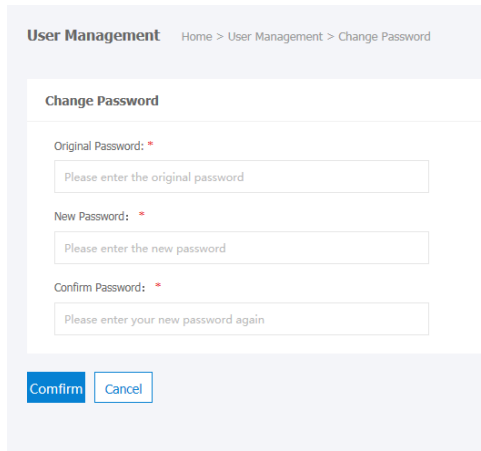
Edit user group

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



Change Password

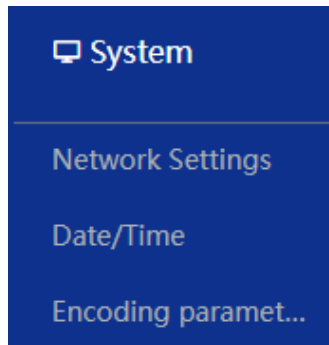
The passwords which is using for logged user



The screenshot shows a web interface for 'User Management'. The breadcrumb trail is 'Home > User Management > Change Password'. The main heading is 'Change Password'. There are three input fields: 'Original Password: *' with placeholder text 'Please enter the original password', 'New Password: *' with placeholder text 'Please enter the new password', and 'Confirm Password: *' with placeholder text 'Please enter your new password again'. At the bottom, there are two buttons: 'Confirm' (blue) and 'Cancel' (white with blue border).

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

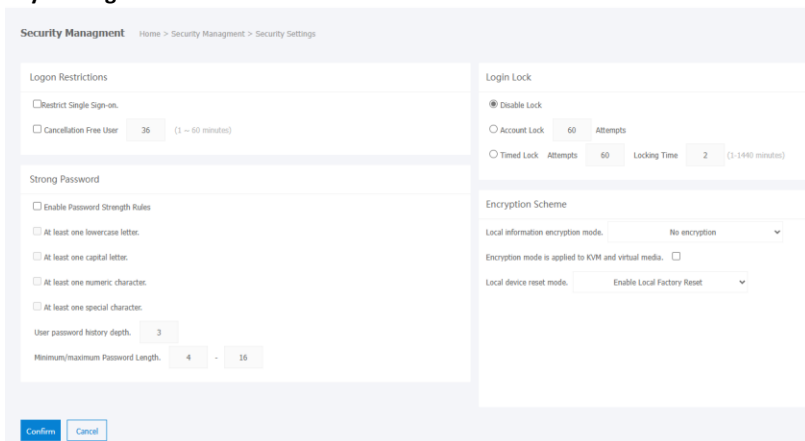
Rate Limit: 6MBPS

Confirm Cancel

6.3 Safety Management



Security Settings



The screenshot shows the "Security Management" settings page. It includes sections for "Logon Restrictions", "Strong Password", "Login Lock", and "Encryption Scheme".

Logon Restrictions:

- ☐ Restrict Single Sign-on.
- ☐ Cancellation Free User: 35 (1 ~ 60 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: 4 - 16

Login Lock:

- ☒ Disable Lock
- ☐ Account Lock: 60 Attempts
- ☐ Timed Lock: Attempts 60, Locking Time 2 (1-1440 minutes)

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

Buttons: 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
- 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 4 bit and maximum is 16 bits

Encryption scheme

- **Local information encryption scheme:** AES256
- Encryption scheme is applied to KVM as virtual media: applied when it is selected

Audit Log

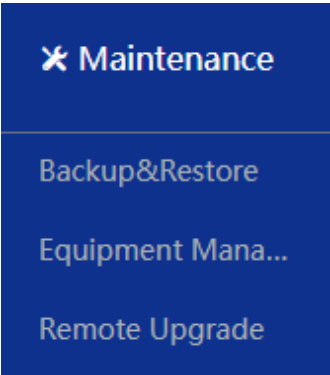
Security Management Home > Security Management > Audit Log

MainType: 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)

Equipment Management

System Maintenance
Home > System Maintenance > Equipment Management

Reboot device

Reboot Mode :
Reboot device

Remote Upgrade

Provide users with better upgrade experience and continuous technical support

System Maintenance
Home > System Maintenance > Remote Upgrade

Upload Files

Brower

Unselected File

Upgrade

Upgrade Method:

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

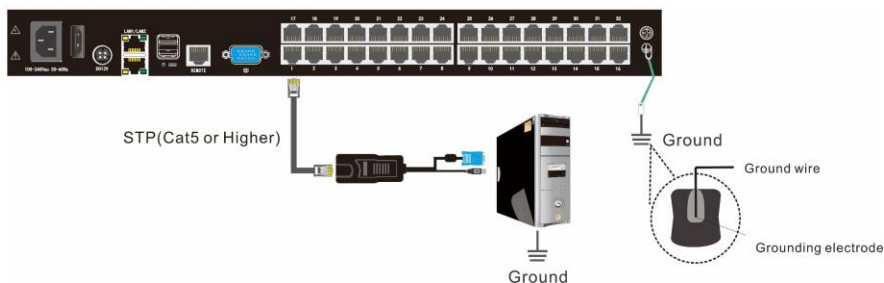
7.Appendix

7.1 Specifications

Model			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		

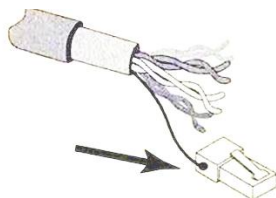
7.2 Grounding Requirements

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

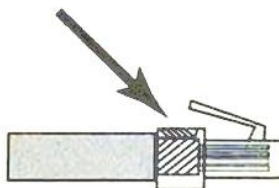


To improve the device safety, please make sure the device is connected to the ground and use the STP cable to connect the device.

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 RJ45 connection socket.

