

Matrix KVM over IP Console

User Manual



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1. Product Overview

1.1 Introduction

The IP-based KVM (IP-KVM) redirects the local keyboard, mouse and video data to a remote management console. The operator can safely manage one or many computers locally at the server site or remotely via a standard internet browser. Securely gain BIOS level access to systems for maintenance, support or failure recovery over the internet.

The IP-KVM console integrates multiple KVM switches in a 1U height console. It can control multiple computers with a set of devices including monitor, keyboard and mouse; saving cost and space by consolidating the hardware to a single device.

The IP-KVM console is fast and easy to install. Simply connect corresponding cables to the correct ports of the KVM and its module without software configuration. Connect multiple computers with compact RJ-45 connectors and CAT5e/6/7 cables, transmitting distance is up to 40M.

1.2 Features

Hardware

- 17" & 19" TFT LCD monitor, high definition and high resolution
- Rack-mountable in a 1U EIA system rack
- Full size keyboard with integrated number pad
- Trackball eliminates the need for a separate, external mouse
- Dual power supply

Local Console

- Control up to 8 / 16/ 24 / 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/HDMI/DVI/ DP port
- Multiplatform client support (Windows, Linux, Unix, Mac, Solaris (Sun), Redhat, Ubuntu)
- Supports a graphical interface for intuitive and convenient human-computer interaction- local resolution is up to 1280 x 1024@60Hz
- Supports 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

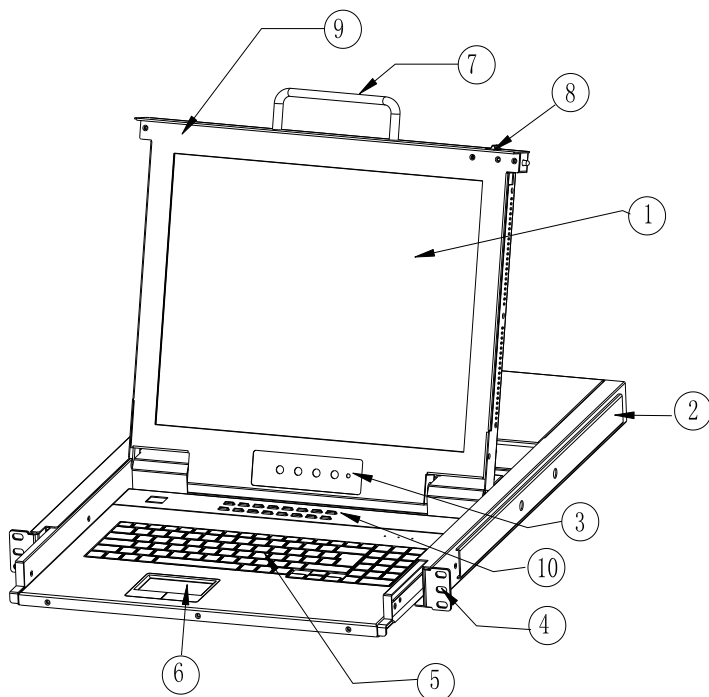


Figure 1.1 Front view

1. LED Monitor
2. Rear Bracket Slot
3. LED OSD Controls
4. Front Bracket
5. Keyboard
6. Touchpad
7. Handle
8. Release Catch
9. Display Panel
10. Switch LED

Rear View

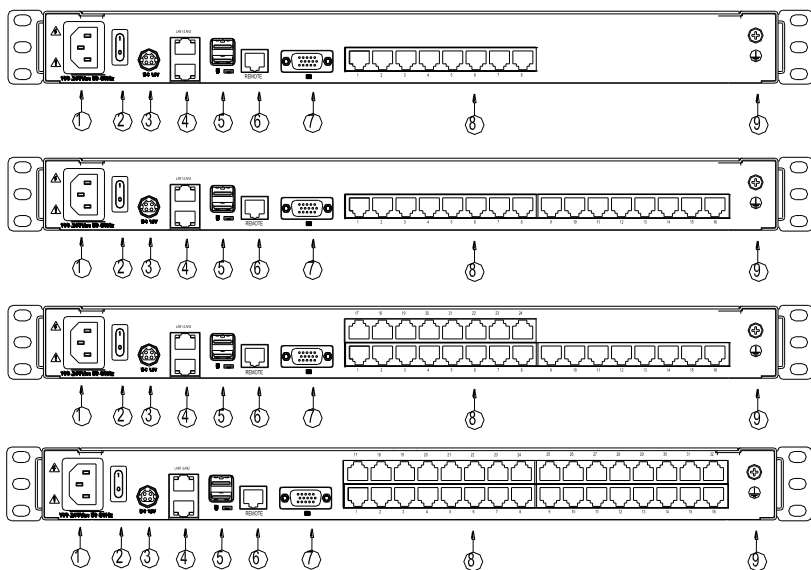


Figure 1.2 Rear view

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

Structure and Size (17" & 19")

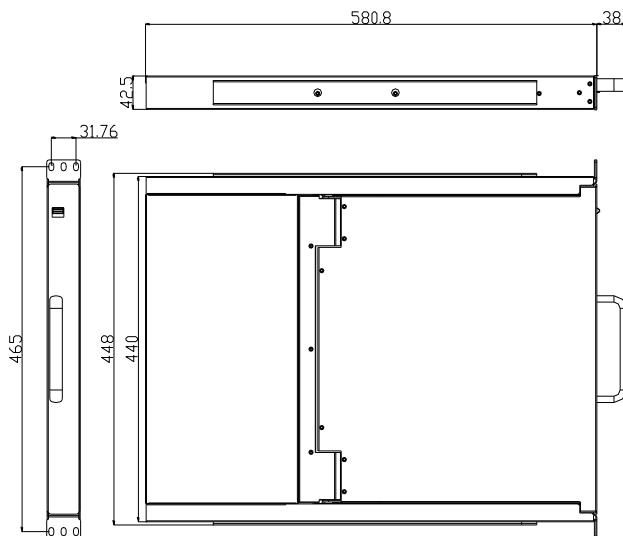


Figure 1.3 17" console size dimensions

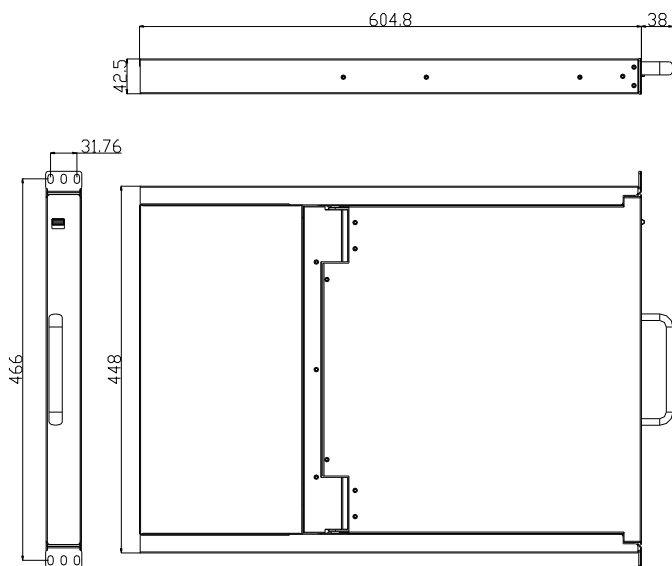


Figure 1.4 19" console size dimensions

2. Installation and Start-up

2.1 Rack Mounting

A standard rack mounting kit is provided to mount the switch in a depth of 600-850mm (17"), 716-825mm (19") in a standard 19" rack. For other mounting distances, the rear brackets need to be customized accordingly. With one person hold the switch in place, the other person slides the L bracket into the switch's side mounting brackets from the front to the back, then screws the brackets to the rack (see below installation drawing).

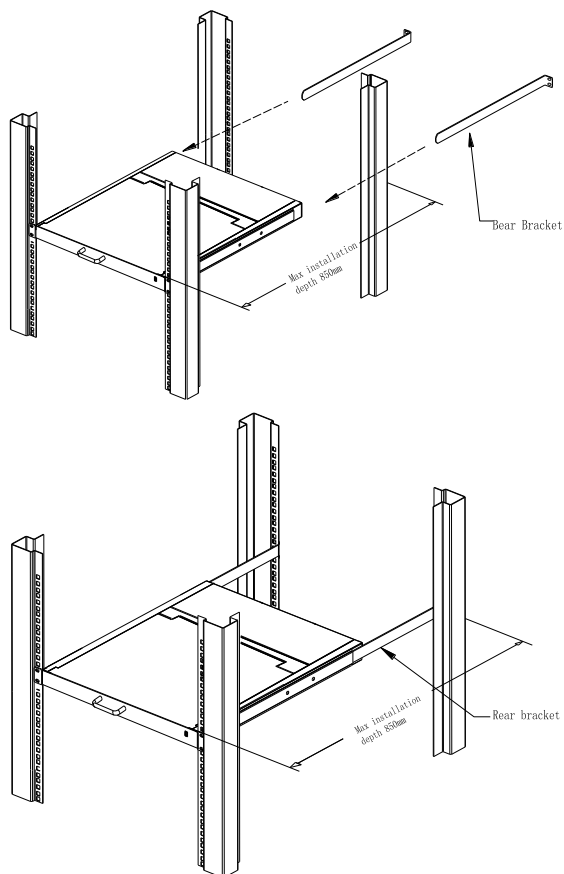


Figure 2.1 Rack Installation Diagram

2.2 Install KVM Components

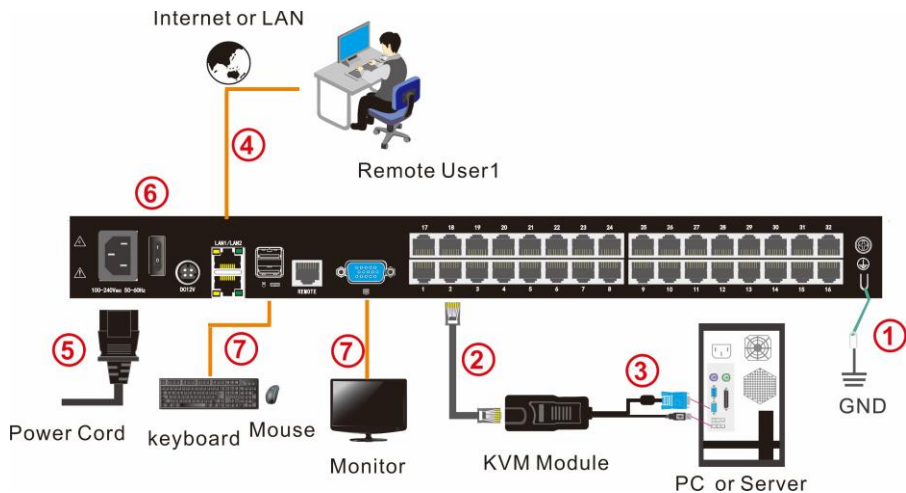


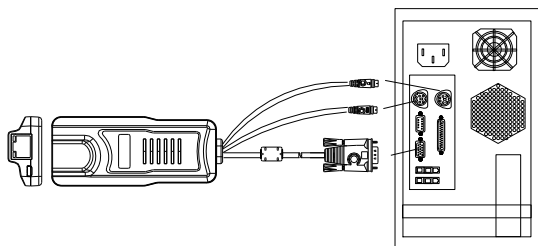
Figure 2.2 Installation diagram

Installation Steps:

1. Make sure the KVM console has been connected to the ground.
2. Connect the KVM adapter to the PC or Server.
3. Connect the KVM adapter to the KVM port with a CAT5 cable.
4. You can remote control the KVM switch via IP.
5. Using power adapter to connect the KVM into 220V AC power supply.
6. Power on the switch
7. Connect the external keyboard, mouse and monitor (optional)

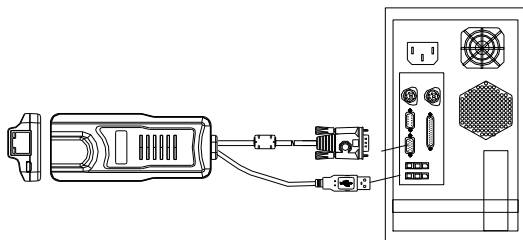
2.3 KVM Adapter

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.

2.4 Opening the Console

1. Disengage the release catch

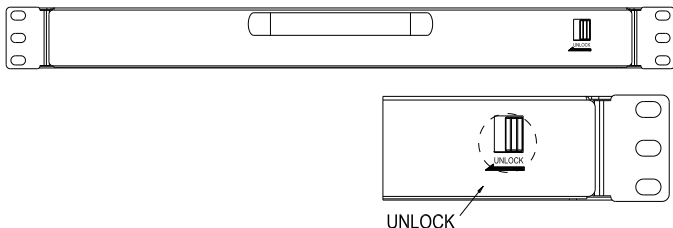


Figure 2.3 Unlocking

Note: The release lock can only do horizontal locking, it doesn't bear any load.

2. Pull the KVM console all the way out until it clicks into place.
3. Rotate the LED module all the way back to expose the LED screen; the LED module can be rotated up to 108°.

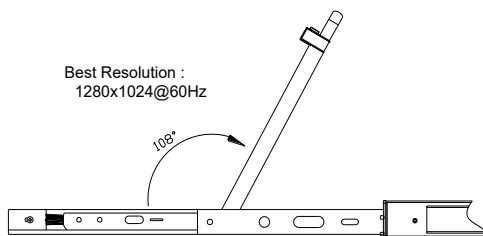


Figure 2.4 Open angle of the console

4. The KVM makes two “beep” sounds after power on, the orange light keeps flashing and an 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

5. LED panel is powered on when the power LED is green.
6. Power on the computer or server after power on the KVM.

2.5 Closing the Console

- Close the LED display panel and the power automatically shut down.
- Push the release catch in the direction of the arrow; push the LED panel all the way in until it automatically locks up.

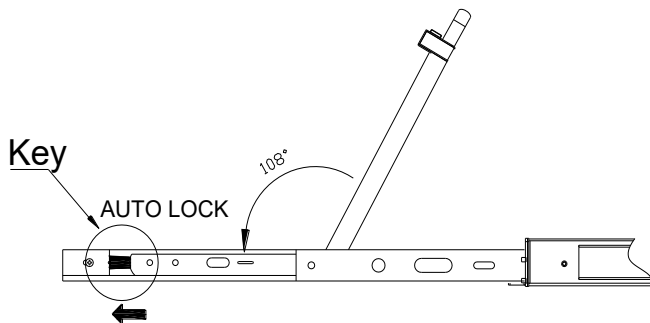


Figure 2.5 Unlocking the console

3. LED Operation

3.1 LED Functions



Figure 3.1 16 Port LED front views

No.	Components	Function
1	1-16	Switching freely from port 1 to port 16
	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. An online LED light (green) indicates that the KVM has connected to its corresponding computer and power on. 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

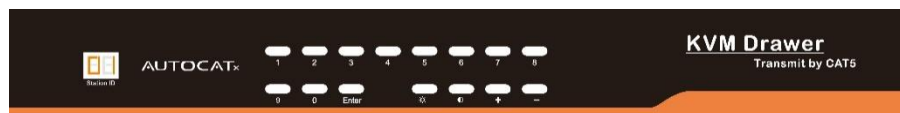


Figure 3.2 24/32 Port LED front views

No.	Components	Function
1	0~9 +Enter	Switching from port 1 to port 32 Port 8 : If you want to switch to Port 8, press 【8】 , and the LED light displays , then press “Enter”, you will come to Port 8. Port 32: If you want to switch to Port 32, press 【3】 and 【2】, the LED light displays , and then press “Enter”, you will come to Port 32.
2	 (+, -)	Adjust Brightness Press  , the LED light blinking with , and then press “+” and “-” to adjust the brightness.
3	 (+, -)	Adjust Definition Press  , the LED light blinking with , and then press “+” and “-” to adjust the definition.
4	Station ID	Display the current port

3.2 Operating the Monitor



Figure 3.3 Monitor adjust menu buttons

The LED OSD allows you to set up and configure the LED display.

Buttons	Functions
MENU SELECT	Brings up the main menu.
EXIT/AUTO	Exits the current menu and returns to the previous menu or exits the LED OSD. Press AUTO for automatic configuration.
SL-/SL+	Moves the menu to make corresponding adjustment.
LED state	Green: Running Red: Power off or access non standard VESA signal Flashing green: Energy saving mode or no signal

Press AUTO if the screen migrates after power on or under other circumstances, then the screen auto-configures to its best display state.

Note:

- It may not be adjusted to its best state if part of the display mode is not standard VESA mode. If so, return back to OSD menu to RESET, then it will revert back to normal.
- It is recommended to set up the display mode at 1280x1024, refresh rate at 60Hz.

3.3 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

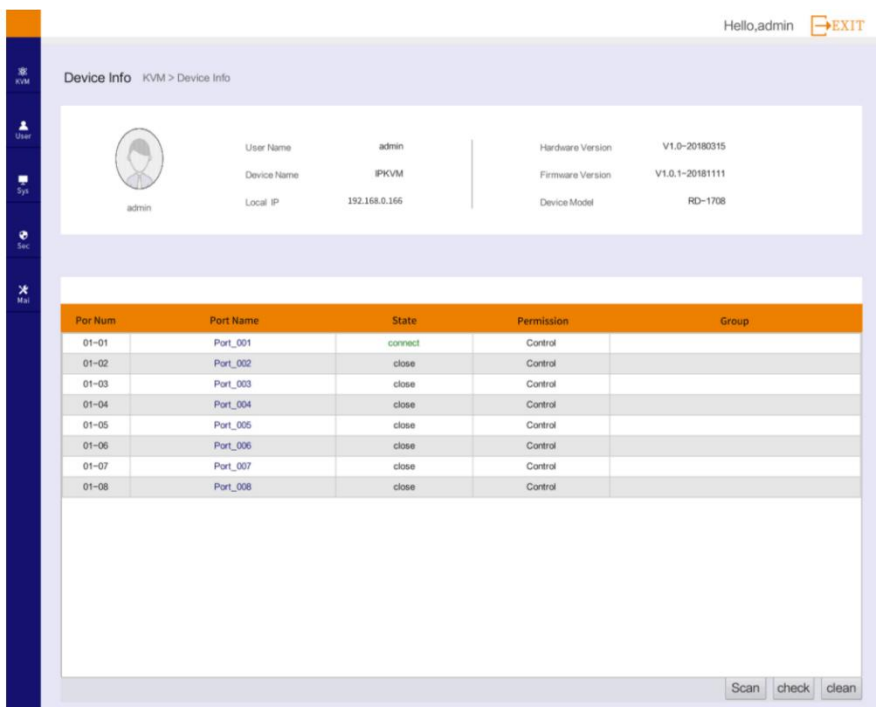
Function	Operating	Function description
Port switch	+Number	Skip ports from 1~16
	+ 【↑】 / 【→】	Skip to previous port
	+ 【↓】 / 【←】	Skip to next port
Brightness	+ 【+】	+
	+ 【-】	-
definition	+ 【>】	+
	+ 【<】	-
Reset Video	+ 【R】	Reset the video
Lock KVM	+ 【L】	Lock KVM and a user login window appears

4. 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 shows the KVM web interface. At the top right, it says "Hello, admin" and "EXIT". The main header is "Device Info KVM > Device Info". Below this, there is a user profile section with a circular icon and the name "admin". To the right of the icon, the following information is displayed:

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 user information, there is a table showing the port status:

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 interface, 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:

Scan time:
(5~255)s

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

Por 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	✓

Scan

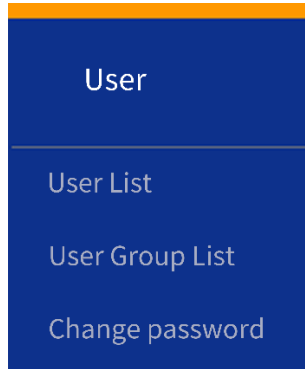
check

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

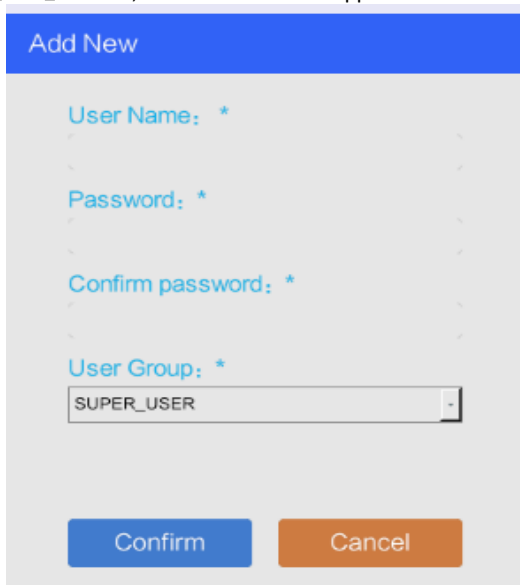
User Name	User State	User Group	User Group ID
admin	Online	SUPER_USER	0

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:



The image shows a 'Add New' window with a blue header. It contains four input fields, each with a red asterisk indicating a required field: 'User Name:', 'Password:', 'Confirm password:', and 'User Group:'. The 'User Group' field is a dropdown menu with 'SUPER_USER' selected. At the bottom, there are two buttons: 'Confirm' (blue) and 'Cancel' (orange).

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 : *

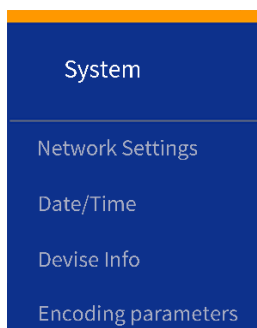
Confirm password : *

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 :

Subnet Mask :

Gateway :

MAC :

DCSG Settings

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

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

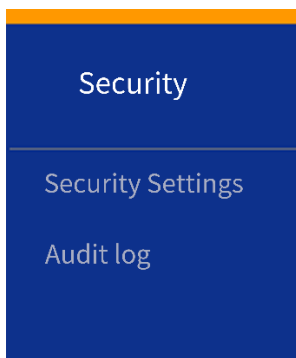
IP Ratio: 25

Stream Rate: 12MPBS

Frame Setting: Hing Rate

OK

4.3 Security



Security 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

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 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

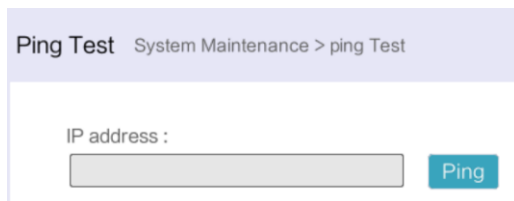


Backup: backup current system settings

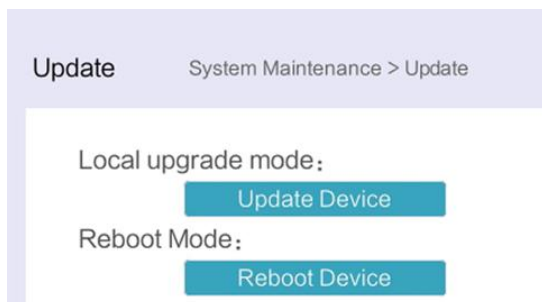
Restore: restore the last backup of system

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:

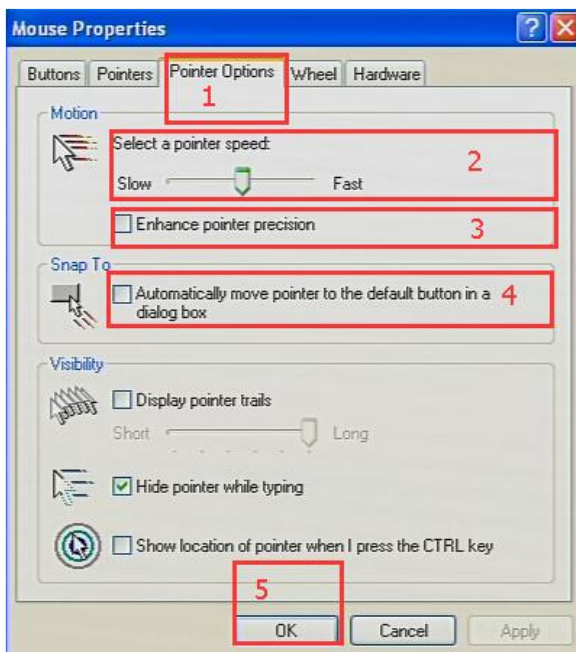
- The digital KVM switch supports below two mouse mode:
 - Absolute mouse mode
 - Relative mouse
 - Intelligent mouse mode

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

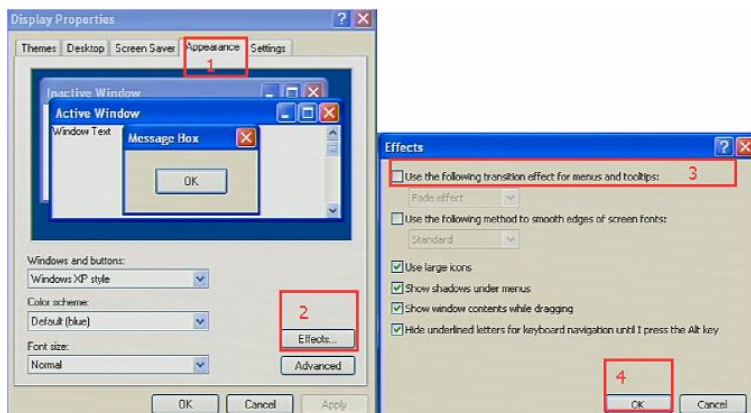
Operating systems: Windows server 2003, Windows server 2005, Windows server 2008, Windows server 2012; Windows XP, Windows 7, Windows 8, Windows 10

- 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



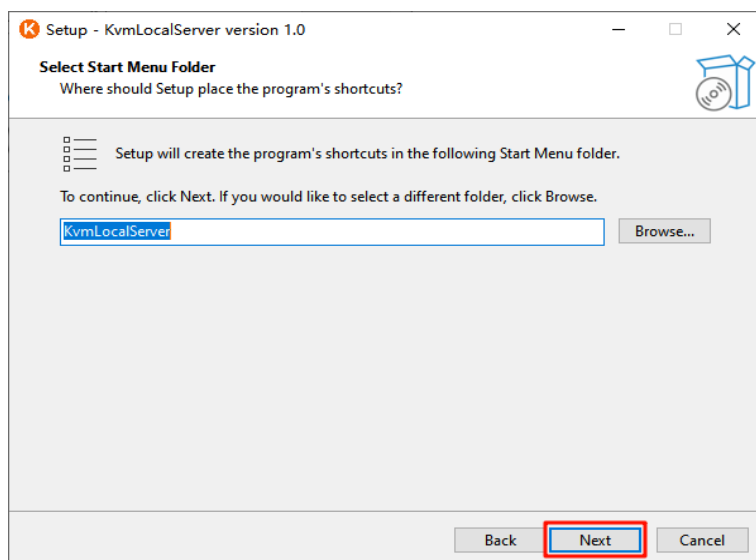
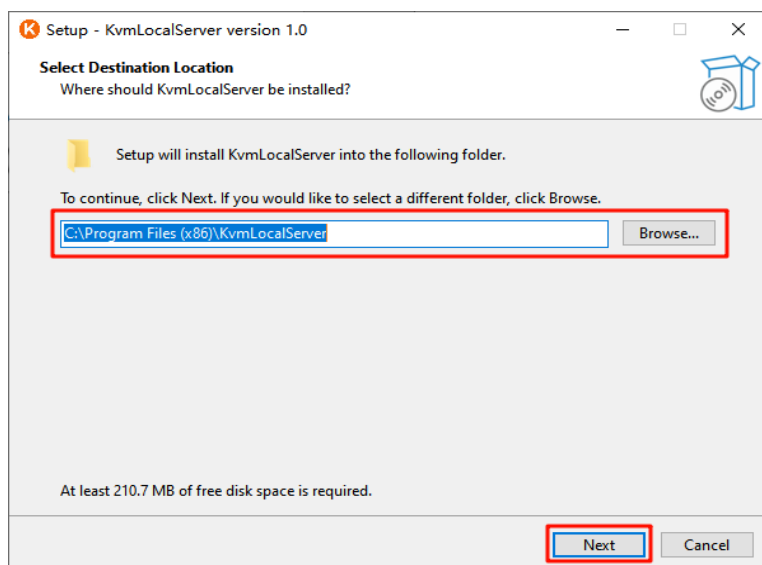
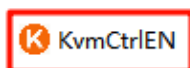
Please follow the steps above to finish the setting.

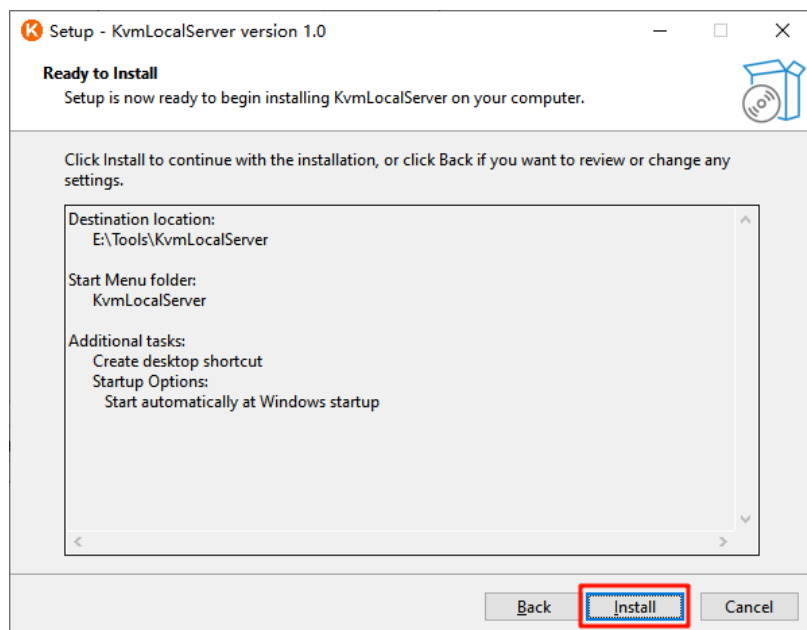
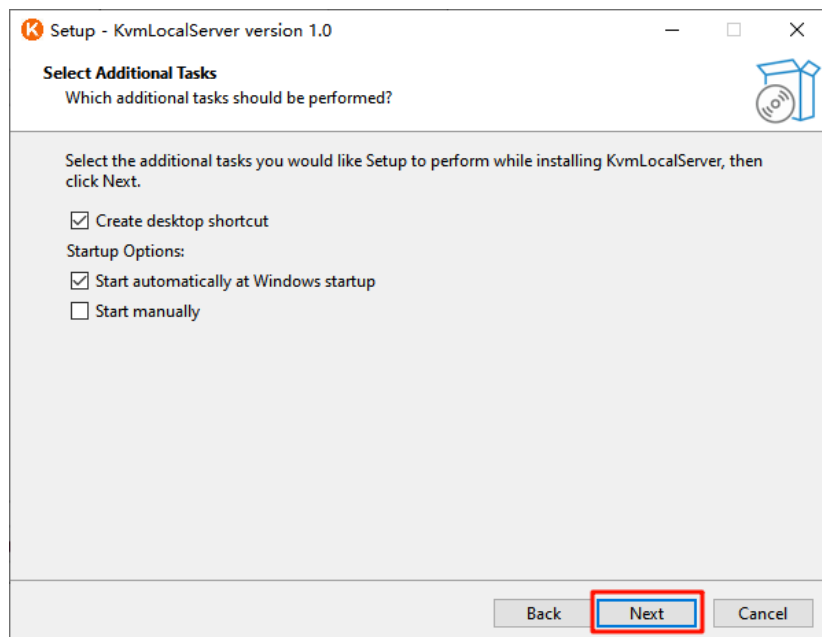
- Configure the mouse under Linux (ubuntu 10)
- Input "set m 1 1" in the Linux command line terminal and press Enter to finish the mouse setting, as shown below.

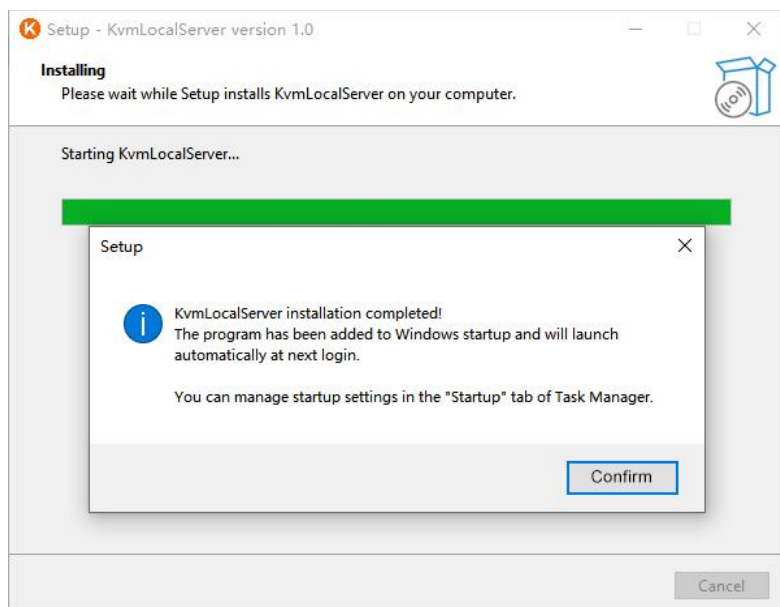
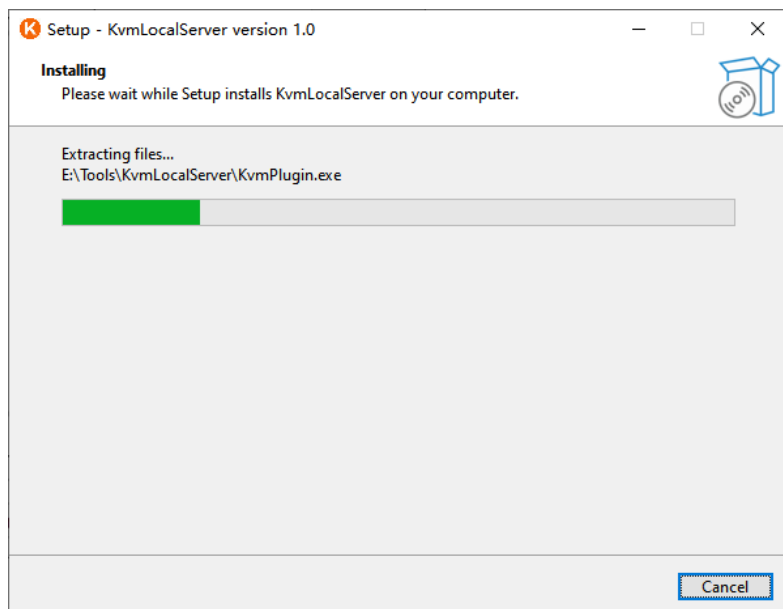
```
File Edit View Search Terminal Help
ADMIN@ubuntu:~$ xset m 1 1
ADMIN@ubuntu:~$
```

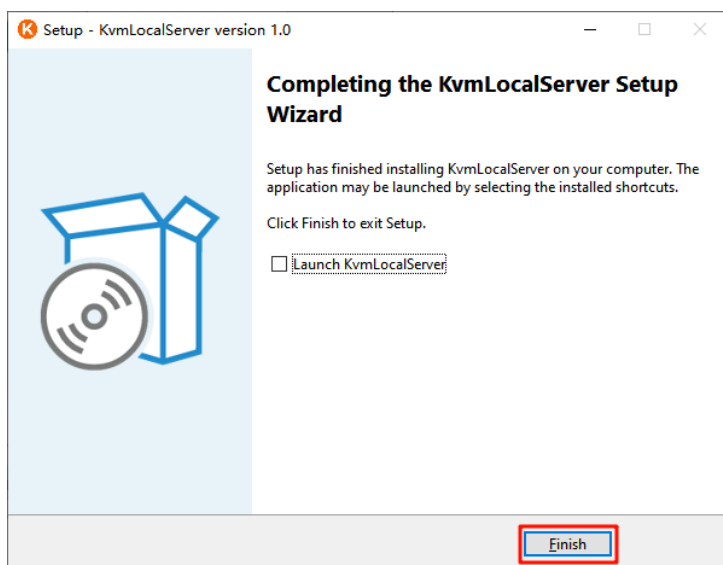
5.2 Remote WEB interface settings

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:







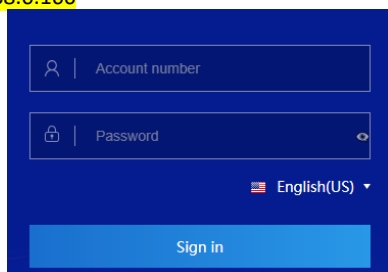


5.3 Log in

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



User Name: admin
password: admin

KVM

User

Sys

Sec

Mal

Help

English(US) | Hello admin | exit

Equipment status

Port access > Port list



admin

User Name

admin

Device Name

IPKVM

Device IP

192.168.0.166

Local IP

192.168.0.238

Device Model

RD-1708

Firmware

HTCRVGA260611V2.0-

Device Time

2026-6-15 17:29:58

Hardware Version

V2.01

Version

A20B35

Each page shows: 16

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

shows 1 to 8 items, 8 items in total

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:

Each page shows : 16

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

System Settings

Home > System Settings > Configure port

Configure Port_1

Name :

Port_001

confirm

cancel

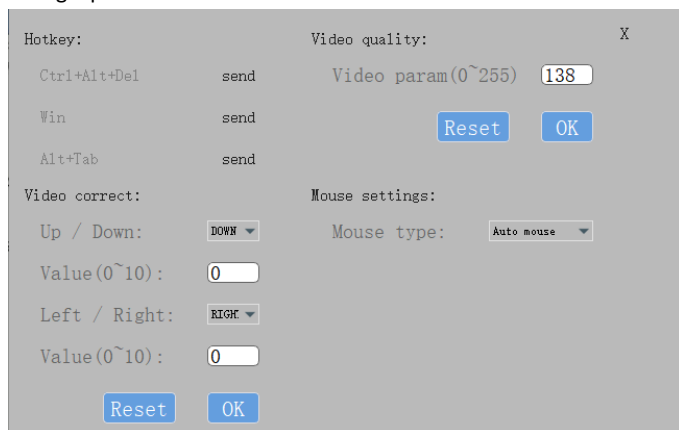
Remote Window Menu Bar Functions



【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: Ctrl+Alt+Del send Video quality: Video param(0~255) 138 X

Win send Reset OK

Alt+Tab send

Video correct: Up / Down: DOWN Value(0~10): 0

Mouse settings: Mouse type: Auto mouse

Left / Right: RIGHT Value(0~10): 0

Reset OK

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:	Auto mouse Relative mouse Absolute mouse
X	Close Window: Close the window of the Send Hotkeys function

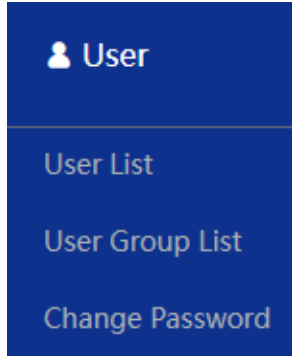
【Hide Window】

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

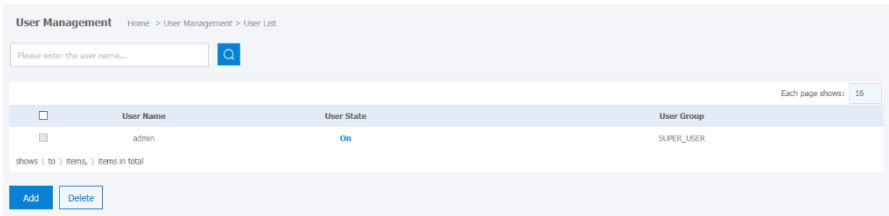
6. IP Menu Option

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 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:

User management
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

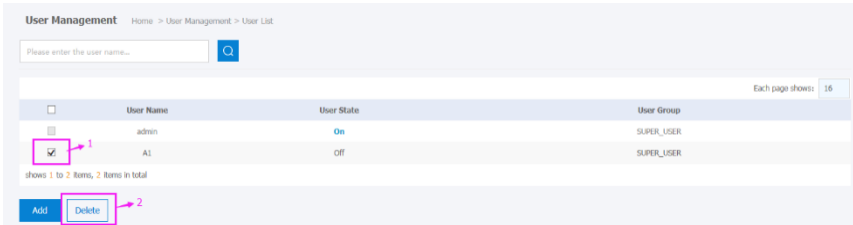
cancel

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

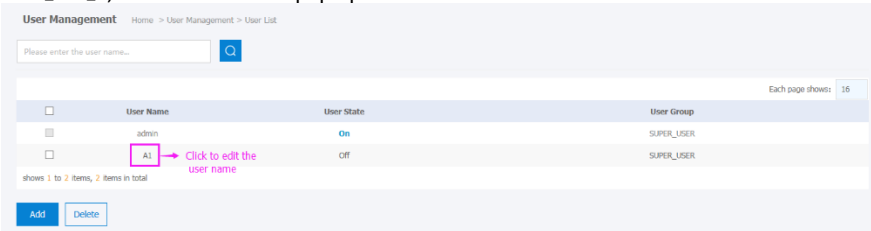
shows 1 to 2 items, 2 items in total

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

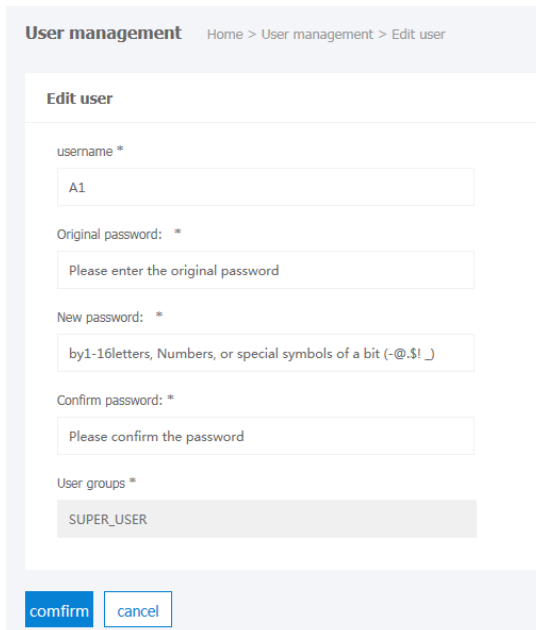
Please enter the user name...

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: 16

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

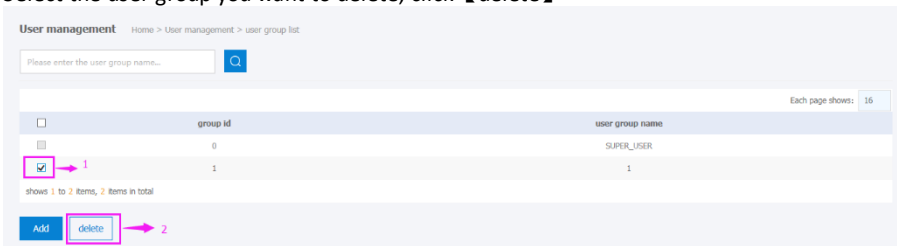
☐ All VM access is denied ☐ All VM access is read-only ☐ All VM access is read and write

[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**

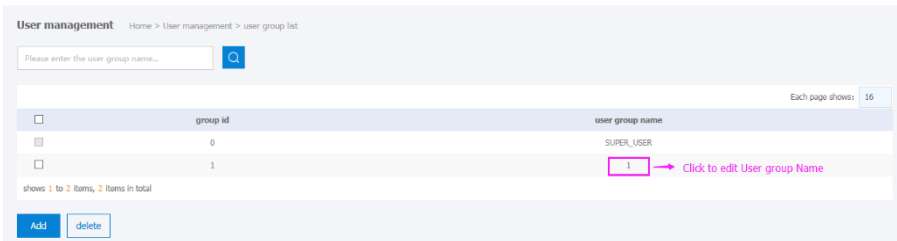


The screenshot shows the 'User management' interface. At the top, there is a breadcrumb trail: 'Home > User management > user group list'. Below this is a search bar with the placeholder text 'Please enter the user group name...'. To the right of the search bar is a magnifying glass icon. Below the search bar is a table with two columns: 'group id' and 'user group name'. The table has two rows: one with '0' and 'SUPER_USER', and another with '1' and '1'. A red box highlights the checkbox for the group with id 1, and a red arrow points to the delete button. Below the table, there is a status bar that says 'shows 1 to 2 items, 2 items in total'. At the bottom left, there are two buttons: 'Add' and 'delete'. A red box highlights the 'delete' button, and a red arrow points to it.

Note: SUPER_USER is system allocated which cannot be deleted

Edit user group

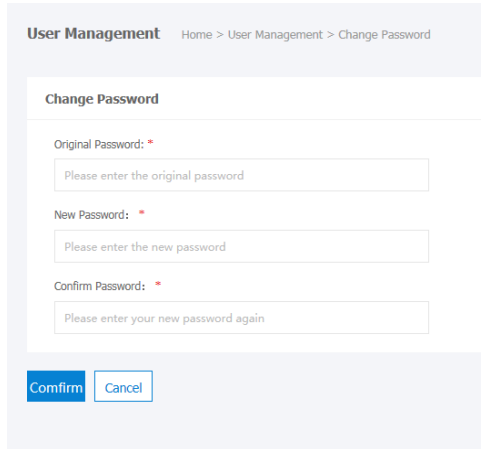
Click **1** edit user group window pop up; for specific operation, please check “add user group”



The screenshot shows the 'User management' interface. At the top, there is a breadcrumb trail: 'Home > User management > user group list'. Below this is a search bar with the placeholder text 'Please enter the user group name...'. To the right of the search bar is a magnifying glass icon. Below the search bar is a table with two columns: 'group id' and 'user group name'. The table has two rows: one with '0' and 'SUPER_USER', and another with '1' and '1'. A red box highlights the group with id 1, and a red arrow points to the text 'Click to edit User group Name'. Below the table, there is a status bar that says 'shows 1 to 2 items, 2 items in total'. At the bottom left, there are two buttons: 'Add' and 'delete'.

Change Password

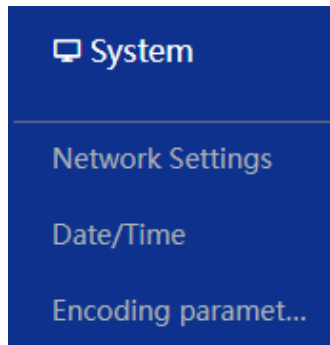
The passwords which is using for logged user



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, each with a red asterisk indicating a required field: '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: 'Comfirm' (with a typo) 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 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 ▼

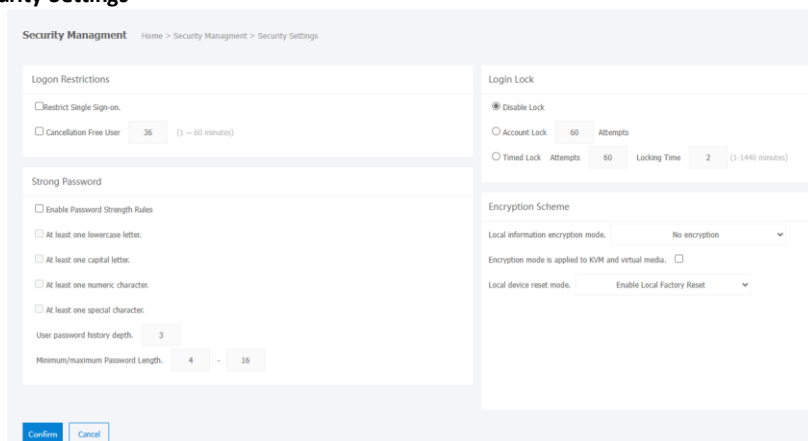
Confirm

Cancel

6.3 Safety Management



Security Settings


 A screenshot of the "Security Management" web interface. The page has a breadcrumb trail: "Home > Security Management > Security Settings". It is divided into two main columns. The left column contains "Logon Restrictions" with options for "Restrict Single Sign-on" and "Cancellation Free User" (set to 36 minutes), and "Strong Password" with checkboxes for password strength rules (lowercase, capital, numeric, special characters) and fields for "User password history depth" (3) and "Minimum/maximum Password Length" (4 to 16). The right column contains "Login Lock" with radio buttons for "Disable Lock", "Account Lock" (60 attempts), and "Timed Lock" (60 attempts, 2 minutes), and "Encryption Scheme" with dropdowns for "Local information encryption mode" (No encryption) and "Local device reset mode" (Enable Local Factory Reset). At the bottom left 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
- 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

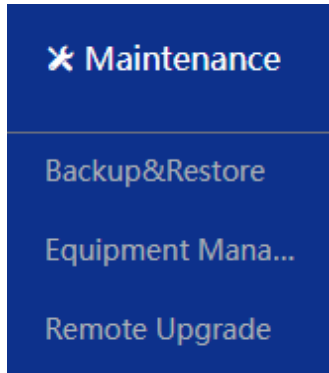
Encryption scheme

- 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				
Main type:	All	Subtypes:	All	Data 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 '192.168.0.16'
3	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
4	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
5	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
6	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
7	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
8	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
9	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
10	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
11	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
12	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
13	1970-01-01 00:00:28	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
14	1970-01-01 00:00:33	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.16'
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 '192.168.0.16'

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

Recovery

Restore Backup Recovery :

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 :

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 (17")

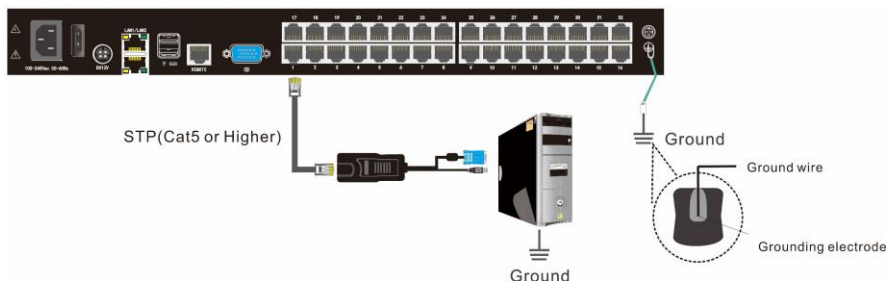
Model		HT1708	HT1716	HT1724	HT1732
Computer Connections	Direct	8	16	24	32
	Max	8	16	24	32
Port Selection	Keyboard, Mouse	Button, UI, Web, Hotkey			
LED Monitor	Model	SXGA TFT			
	View Area	17 "			
	Optimum Resolution	1280×1024@60Hz			
	Color	16.7 M			
	Brightness	250 cd/m ²			
	Contrast Ratio	1000 : 1			
	Pixel Pitch(mm)	0.264(H) × 0.264(W)			
Mouse	X/Y Resolution	>1000 points / inch, (40 points/mm)			
	Scroll Wheel	Supports Scroll Wheel function			
Keyboard		104 function keys 99 keys (82 keyboard + 17 number pad)			
Remote	Management	Web			
	Security	AES 256 Encrypted			
	Resolution	1920×1080@60Hz			
Power Input		100V- 240Vac , 50-60Hz , <1.5A			
Mounting distance		600~850mm (L=420mm) Mounting rails can be customized for other mounting distance.			
Power Consumption		21W	23W	25W	27W
Operating Temperature		0 — 50 °C			
Store Temperature		-20 —60 °C			
Humidity		0~80% RH, non-condensing			
Net Weight		13kg	13kg	13.2kg	13.2kg
Product Dimension (W × D × H)		448mm × 581mm × 42.5mm			
Package Dimension (W × D × H)		765mm × 615mm × 185mm			

7.2 Specifications (19")

Model		HT1908	HT1916	HT1924	HT1932
Computer Connections	Direct	8	16	24	32
	Max	8	16	24	32
Port Selection	Keyboard, Mouse	Button, UI, Web, Hotkey			
LED Monitor	Model	SXGA TFT			
	View Area	19 "			
	Optimum Resolution	1280×1024@60Hz			
	Color	16.7 M			
	Brightness	250 cd/m ²			
	Contrast Ratio	1000 : 1			
Mouse	Pixel Pitch(mm)	0.2928(H) × 0.2928(W)			
	X/Y Resolution	>1000 points / inch, (40 points/mm)			
Keyboard	Scroll Wheel	Supports Scroll Wheel function			
		104 function keys			
		99 keys (82 keyboard + 17 number pad)			
Remote	Management	Web			
	Security	AES 256 Encrypted			
	Resolution	1920×1080@60Hz			
Power Input		100V- 240Vac , 50-60Hz , <1.5A			
Mounting distance		716~825mm (L=262mm) Mounting rails can be customized for other mounting distance.			
Power Consumption		23W	25W	27W	29W
Operating Temperature		0 — 50 °C			
Store Temperature		-20 —60 °C			
Humidity		0~80% RH, non-condensing			
Net Weight		13.4kg	13.4kg	13.6kg	13.6kg
Product Dimension (W × D × H)		448mm × 605mm × 42.5mm			
Package Dimension (W × D × H)		765mm × 615mm × 185mm			

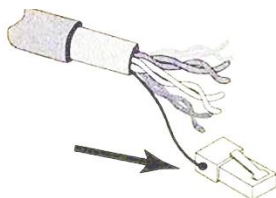
7.3 Grounding Requirements

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

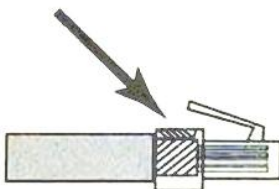


To improve the device safety, please make sure the device is connected to the ground and use the STP cable to connect the device.

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.

