# Cat5 KVM over IP Console (8 Port/16 Port/ 24 Port/ 32 Port)

# **User Manual**



www.kinankvm.com @all right reserved Shenzhen Kinan Technology Co., Ltd. Print date: 2022/03 Version: V1.2

# **Table of Contents**

1. Product Overview	3
1.1 Introduction	3
1.2 Features	3
1.3 Appearance	5
2. Installation and Start-up	8
2.1 Rack Mounting	8
2.2 Install KVM Components	9
2.3 KVM Adapter	10
2.4 Opening the Console	11
2.5 Closing the Console	
3. LED Operation	13
3.1 LED Functions	13
3.2 Operating the Monitor	15
3.3 Key Combination Function	16
4. User Interface Operation	17
4.1 UI function instruction	18
4.2 User Management	19
User List	
User group list	
Change password	
4.3 System Settings.	
Network Settings Date/Time	
Device Information	
Encoding Parameters	
Serial	
4.4 Security Management	26
Security Settings	
Audit Log	28
4.5 System Maintenance	28
Backup& Restore	28
Ping the host	
Equipment Management	
5. Remote Control	
5.1 Configure the target server	
5.2 Remote WEB interface settings	32
5.3 Log in	35
5.4 Video Control Interface Menu	38

43
48
48
50
51
51
51
52
53
53
53
54
54
54
55
55
56
57

# 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 100M.

# 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 2 remote users, port share mode allows local and remote users to gain access to a server simultaneously or access different servers
- 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**

- 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
- Support low-bandwidth real-time transmission, the bandwidth is less than 2M
- Exit Macros support
- Configurable user and group permissions for server access and control
- Supports firmware upgrade

#### 1.3 Appearance Front View

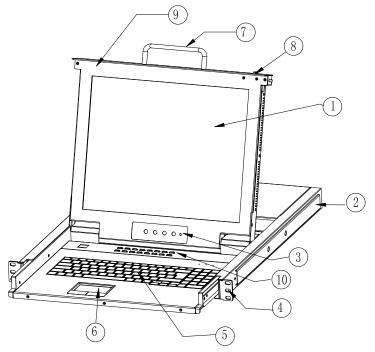


Figure 1.1 Front view

- 1. LCD 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**

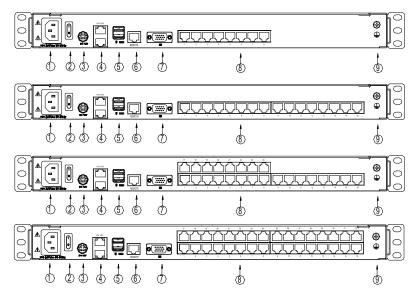


Figure 1.2 Rear view

- 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 Screw

# Structure and Size (17" & 19")

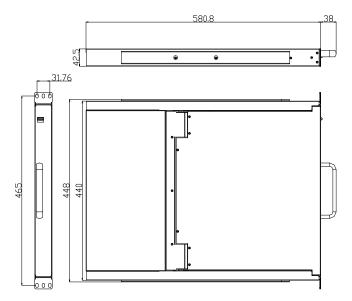


Figure 1.3 17" console size dimensions

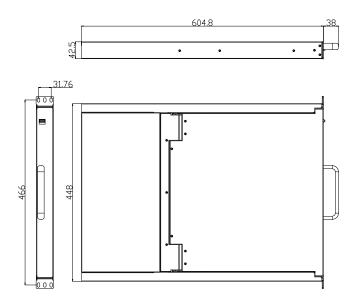


Figure 1.4 19" console size dimensions

# 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).

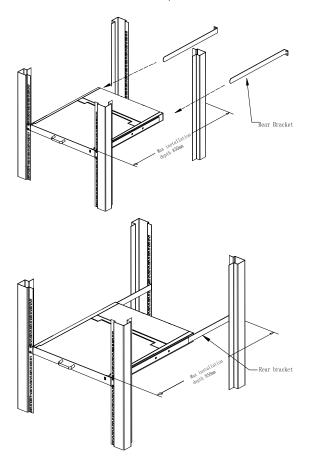


Figure 2.1 Rack Installation Diagram

## 2.2 Install KVM Components

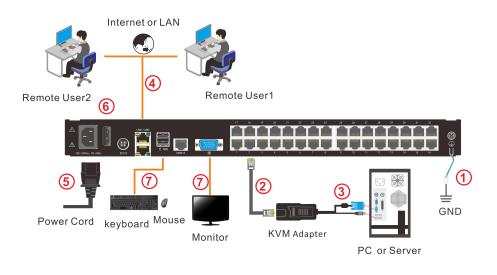


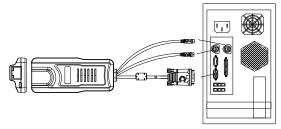
Figure 2.2 Installation diagram

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)

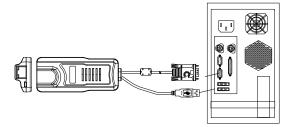
# 2.3 KVM Adapter

# PS/2 Adapter



Model No.	Keyboard/Mouse	РС	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

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.

# 8 Port /16 Port/24 Port/32 Port

## 2.4 Opening the Console

1. Disengage the release catch

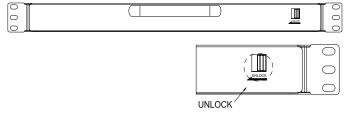


Figure 2.3 Unlocking

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 LCD module all the way back to expose the LCD screen; the LCD module can be rotated up to 108°.

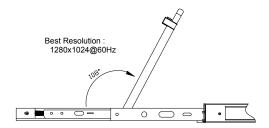


Figure 2.4 Open angle of the console

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:	admin
Password:	admin

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

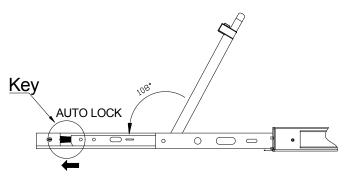


Figure 2.5 Unlocking the console

## 3.1 LED Functions



# Figure 3.1 16 Port LED front views

No.	Components	Function	
	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.	
1	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 D 🔅	Press 【 6 】 for three seconds will initialize the brightness and definition of each port.	
2	Port Selection Buttons & LEDs	<ul> <li>Indicator LEDs are built into the switches, the online LED light is on the left and the selected LED light is on the right.</li> <li>1. An online LED light (green) indicates that the KVM has connected to its corresponding computer and power on.</li> <li>2. A selected LED light (orange) indicates that the computer attached to its corresponding port is up and running.</li> </ul>	
3	Station ID	Display the current port	



Figure 3.2 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	- Ø- (+, -)	Adjust Brightness Press , the LED light blinking with , and then press "+" and "-"to adjust the brightness.
3	• (+, -)	Adjust Definition Press $igodot$ , the LED light blinking with $\Box$ , 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	
	+Number	Skip ports from 1~16	
Port switch	+ 【↑】/【→】	Skip to previous port	
	+ 【↓】/【←】	Skip to next port	
Duichtur ere	+ 【+】	Brightness +	
Brightness	+ [-]	Brightness -	
	+ 【>】	Definition +	
Definition	+ 【<】	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.

		Security Maintain		
Home > KVM				
Port Num	Port Name	State	Permission	Group
01-06	Port_006	connect	Control	
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	
01-07	Port_007	close	Control	
01-08	Port_008	close	Control	
01-09	Port_009	close	Control	
01-10	Port_010	close	Control	
01-11	Port_011	close	Control	
01-12	Port_012	close	Control	
01-13	Port_013	close	Control	
01-14	Port_014	close	Control	
01-15	Port_015	close	Control	
01-16	Port_016	close	Control	

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.

# 4.1 UI function instruction

No.	Menu	Submenu	Function		
		User List	User settings		
1	User Management	User Group List	Set user group and user permission.		
		Modify Password	Set password		
		Network Settings	Set IP address, subnet mask, etc.		
		Date/Time	Set date and time		
2	2 System Settings	Device Information	Device information settings		
		Encode Parameters	Video quality settings		
		Serial	Serial settings		
3	Security	Security Settings	Login and password permission settings		
-	Management	Audit Log	Audit Log		
		Backup and restore settings	Backup, restore, factory settings		
4	System Maintenance Ping host		Test the network connection status with the host		
		Device Management	Upgrade and restart the device		

#### 4.2 User Management

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 does 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 ma	agement
Users list	
User group	list
Modify pass	word

#### User List

Home > U	lser management > <mark>user li</mark>	st	
Please ent	er the user name	find	
			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:

User Name: *	
Password: *	
Confirm password: *	
User Group: *	
SUPER_USER	-
Confirm Ca	ncel

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

#### User group list

	Search Group Add Del
Num	User Group Name
0	SUPER_USER
1	1
2	2
3	3
4	4

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 🗌 s	ystem Se	ettings	s 🔄 safe	ty cor	ntrol 📃 Maintenance
port authority						
Numuber	Port Name	port a	ccess	virtua	l med	ia 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
Co	onfirm		C	ancel		

- 1) User group name: The user group name is composed of uppercase and lowercase English letters, numbers, and underscores.
- 2) Permission: mainly refers to management and operation permission. Click "show

more", the permission menu appears (shown in picture above), click "show less", the permission menu disappears.

- $\diamond$  Port Access: access to each KVM port and control target server.
- ♦ User Management: user management permission
- ♦ Device Setting: KVM device management permission
- ♦ Security Management: security management permission
- ♦ System Maintenance: system maintenance permission
- 3) Port permission: set up access and operating permission for each port

#### Change password

Change the User login password.

- 1) Old password: Enter the old password.
- 2) New password: Input new password. When strong password protection is not set, the password can only consist of 1-16 letters, numbers or special characters (-@.\$!\_); if strong password protection is set, the password must be filled in according to the rules of strong password protection, Please refer to "[security management]—>[security setting] " for details.

#### 4.3 System Settings



#### **Network Settings**

Network Settings	System Settings > Network Settings
Network Settings	
IP Address :	
192.168.2.167	
Subnet Mask ;	
255.255.255.0	
Gateway :	
192.168.1.1	
MAC :	
00:4a:b5:3c:6f:58	
DCSG Settings	
192.168.1.100	
DCSG Port	
5500	
	mfirm

#### IP 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
- $\diamond$  DCSG Port: The Port should be the same with the Authentication Server Port.

# Date/Time

Cattingen		
e Settings		
User setting time		
Date Settings:		
1970-01-14	•	
Time Setting:		
13:48:29	1	
) Synchronize with t Time server:	he NTP server:	
	he NTP server:	
Time server:	he NTP server:	
Time server:		

System time setting:

■ User-defined time: manually set by the user.

■ Synchronize with NTP server: the system automatically updates the time according to the time server.

# **Device Information**

M User	System	Security	Maintain	Help	Ċ
				5-34-55 	
Home> System S	ettings > Equipment in	nformation			
Device name					
IPKVM					
KVM Hot-key					
Double-click the	left Ctrl 👻				
Function Hot-Ke	ey .				
IAIt + ICtrl + Funct					
Setting Module E	DID				
1280X1024	*				
0	8				
Eurotion kou tob	10				
Function key tab 1,2,3n	Switch the p				
+	VGA Bright				
_	VGA Bright				
>	VGA Gain H				
<	VGA Gain -				
Ĩ	Switch Next				
t	Switch Prev				
	Switch Next				
÷	Switch Prev				
L	Logout				
R	Reset VGA				

KVM hotkeys	Left 【Ctrl】 + Left 【Ctrl】 Left 【Alt】 + Left 【Alt】 【Scroll Lock 】 + 【Scroll Lock 】 【Caps Lock】 + 【Caps Lock】
Function hotkeys	Left【Alt】 + Left【Ctrl】 Left【Win】 + Left【Ctrl】 Left【Alt】 + Left【Win】 No function hotkey
Set module EDID	1280*1024 1366*768 1920*1080 Auto

#### **Encoding Parameters**

Encoding parame	ter System Settings > Encoding parameters
Video Formats: Stream type:Ma	
Frame Rate: IP Ratio:	25 25
Rate Limit:	6MPBS -
	OK

Video format: PAL format

Stream type: high definition of the main stream, low definition of the secondary stream Frame rate: the number of frames encoded per second

IP ratio: the ratio of I and P frames per second

Upper limit of code rate: the maximum code rate of encoding channel (1-12MBPS)

Home>Syst	enroeung	a > Oeni
Baud Rate	50	
Parity	no	

## 4.4 Security Management



#### Security Settings

logon restric	Login lock
Restrict single sign-on.	O Disable lock
password expiration 50 Day	<ul> <li>Account lock try 60</li> </ul>
Cancellation user 36 (1~365minutes)	Timed lock try 60 Locking 2 (1-1440minutes)
Enable password	Local info encryption mode No ENCRYPTION V
Strong	Encryption se
Contain lowercase Contain uppercase	Local device reset mode Enable Local Factor +
Contain Number	Encryption mode is applied to KVM and virtual
password depth 3	
Min/max length 1 - 16	

Login restriction: user name login restriction

 $\diamond\,$  Single sign on restriction: if one user name is logged in, it can no longer log in with this user name.

♦ Enable passwords expiration: current password use days ranges from 1-365 days, if it is enabled, the default is 50 days.

 $\diamond$  Free user logs off: After the user logs in, if there is no operation, and when the set time is exceeded, the user automatically logs out and exits.

#### Login lock

♦ Disable Lock: when it is selected, login lock will be canceled

♦ Account lock: set trying number of times for login attempts failed

 $\diamond\,$  Timed lock: set the account lock time when account login failed attempts are over the setting number of times

#### Strong password

 $\diamond\,$  Enable strong password: when it is selected, the original password will be forced to be changed

 $\diamond$  Password history depth: new password cannot be the same as the latest 3 default passwords, this number can be changed, it ranges from 1-10

♦ Strong password length: From 1-bit to16 bits.

#### Encryption mode

DI	25	1		
 AB	ES	1	2	8
212	282			-

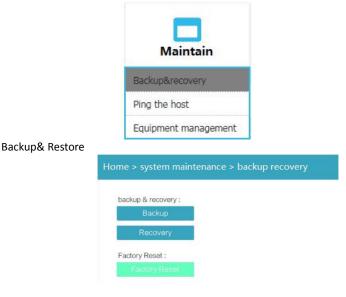
- Local information encryption mode: AES256 three encryption schemes and one un-encryption scheme
- Encryption mode is applied to KVM and virtual media: applied when it is selected

#### Audit Log

	1970-01-14 13:49:28 -	Maintype: ALL	<ul> <li>subtypes:</li> </ul>	ALL 👻	Search
Date	Event	Instructions			
	Date	Date Event	Date     Event     Instructions       Image: state	Date     Event     Instructions.       Image: Imag	Date     Event     Instructions       Image: Structure stru

#### 4.5 System Maintenance

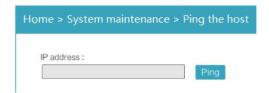
Provide system maintenance tools such as test tools, data backup and restart



- 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 the host



## **Equipment Management**

Home >	System maintenance > equipment management
Local u	ograde mode:
	Update Device
Reboot	Mode:
	Reboot Device
screen	resolution
	1280X1024 -

## 5. Remote Control

5.1 Configure the target server

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

The IP KVM switch supports below two mouse mode:

- ♦ Absolute mouse mode
- ♦ Relative mouse
- ♦ Intelligent mouse mode

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

# 1) 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

Mouse Properties			? 🛛
Buttons Pointers	Pointer Options 1	Wheel Hardware	
Select a	a pointer speed:	Fast	2
Enh	ance pointer prec	ision	3
	matically move p ng box	ointer to the default l	button in a 4
Cattant Disp Short	lay pointer trails	- C Long	
	e pointer while typ w location of poir	iter when I press the	CTRL key
	5	JK Cance	el Apply

Please follow the steps above to finish the setting.

2 ) Set up the display of the target server under Windows XP, Windows 2003, Windows2008

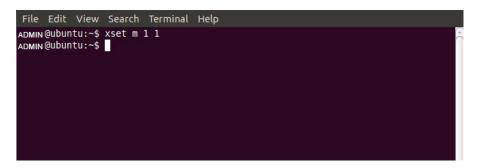
[Start]->[Control Panel]->[Hardware]->[Display]

Themes Desktop Screen Saver Appearance Settings	1
Window Text Message Box	Effects
UK Vindows and buttons:	Use the following transition effect for menus and tootips: 3 Fade effect Use the following method to smooth edges of screen fonts: Standard V Use large icons
Windows XP style	Show shadows under menus
Color scheme:	Show window contents while dragging
Default (blue)  Font size:	Hide underlined letters for keyboard navigation until I press the Alt key
Normal Advanced Advanced OK Cancel Apply	4 ok Canel

Please follow the steps above to finish the setting.

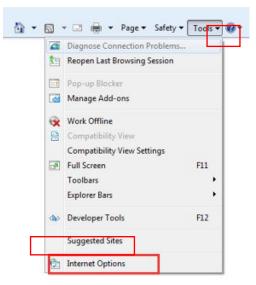
#### Configure the mouse under Linux (ubuntu 10)

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



5.2 Remote WEB interface settings

Install and open IE browser, click top-right settings→[Internet Options]



Click [Security]→ [Custom Level]

ernet Option: General Secu	Privacy Content Connections Programs Advanced
Internet	to view or change security settings.
This trus	sted sites zone contains websites that you thot to damage your computer or files.
Allowed le	el for this zone vet for this zone: All Lov - Vinimal safeguards and warning prompts are provided - vost content is downloaded and run without prompts - All active content: can run - Appropriate for sites that you absolutely trust le P otected Mode (equices cartacting Internet Explorer)
	Custom level Default level
	OK Cancel Apply

[ActiveX controls and plugins]

ttings			
0	Prompt		-
	eX controls and plug-ins		
A	llow previously unused Acti	veX controls to run wi	thout prom
	Disable		
	llow Scriptlets		
• A	) Disable		
6	Enable		
6	) Prompt		
A	utomatic prompting for Acti	veX controls	
0	Disable		
(	Enable		
J B	inary and script behaviors		
0	Administrator approved		
C	) Disable		
4	Enable III		•
2.1		4	
Takes eff	ect after you restart Intern	iet Explorer	
set custo	m settings		
set to:	_		
set to:	Medium-high (default)		Reset

rity Settin	ngs - Internet Zone	
ettings		
0	🗇 Enable	
💓 C	Download signed ActiveX controls	
(	🔘 Disable	
	Enable (not secure)	
	Prompt (recommended)	
a l	Download unsigned ActiveX controls	
0	Disable (recommended)	
	Enable (not secure)	
	Prompt	
<b>I</b>	Initialize and script ActiveX controls not marked as safe for	SI
	<ul> <li>Disable (recommended)</li> <li>Enable (not secure)</li> </ul>	
	Prompt	
	only allow approved domains to use ActiveX without promp	h+
	Disable	~
1	A Fnahla	-
•	m	8]
Takes ef	fect after you restart Internet Explorer	
	om settings	
eset to:	Medium-high (default)   Reset.	
	ОК Са	ncel

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

General	Security	Privacy	Content	Connections	Programs	Advance
Setting	IS					
۶ ۹	<ul> <li>Just d</li> <li>Security</li> <li>Allow</li> <li>Allow</li> <li>Allow</li> <li>Check</li> <li>Check</li> <li>Check</li> <li>Do no</li> <li>Empty</li> </ul>	t submit u isplay the active con active con software ( for publis for serve for signat t save end	nknown ac results in tent from tent to run or run or in her's certif r certificat tures on do rypted pa ry Interne	Idresses to you the main windo CDs to run on I a in files on Mv. Istall even If th istall even If th istall even If th istall even at the revocation e revocation e revocation e revocation e sto disk t Files folder wh	w My Computer* computer* e signature i n grams	r* sinv
	Enable					
*				is Authenticatio	on*	*
1	C Enable	e Integrat	ed Windov	ernet Explorer	on*	+
*Ta Reset : Rese cond	Enable kes effect : Internet Ex ets Interne ilition.	e Integrati after you i plorer set t Explorer	ed Window III restart Int tings s settings	ernet Explorer	advanced s	et

## 5.3 Log in

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

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

PASSWORE	•••••	*
	LOG	

Default Items	Default Value
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.

кум	User management	System Settings	Safety managemen	t System maintenance	Help	
Home > Port	access > Port list					
				Each p	age shows :	16
Number	Port name		State	Port per	mission	
3	Port_003		connect	con	trol	
1	Port_001		close	con	trol	
2	Port_002		close	con	trol	
4	Port_004		close	con	trol	
5	Port_005		close	con	trol	
6	Port_006		close	con	trol	
7	Port_007		close	con	trol	

Video access: KVM port access status, 1. Busy, 2. Connect, 3. Close

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

# Edit Port Name:

nt system!					() Exit
(A) KVM	User management	System Settings	<b>D</b> Safety management	System maintenance	Help
ome > Port ac	cess > Port list				
				Each p	age shows : 16
lumber	Port name		State	Port per	mission
3	Port_003	lick to edit the port	name <sub>connect</sub>	con	trol
1	Port_001		close	con	trol
2	Port_002		close	con	trol
4	Port_004		close	con	trol
5	Port_005		close	con	trol
6	Port_006		close	con	trol
7	Port_007		close	con	trol

Home :	> System Setting	gs > Configure port	
Configu	re Port_3		
Name :			
Port_00	03		
	comfirm	cancel	

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 icon, the toolbar will automatically hide. If the mouse is moved to the toolbar position again, the toolbar will be displayed.



2) Setting Options

2.1 Keyboard & Mouse Options

When user has the operating permissions

eyboard/mouse option <eyboard mouse="" send<="" th=""><th></th><th>Shortcut options  </th></eyboard>		Shortcut options
Send the keybo	ard [	Send the mouse
Mouse setting	mor	
) Single mouse cui	SOF	
Single mouse ESC	Alt+F10	•
Cursor types	Arrow	•
Mouse modes setting		
Auto	C Relative	C Absolute
Full screen		
Full screen zoom	í.	
Save		Cancel

- Keyboard/mouse sending setting
  - Send the keyboard: keyboard data can be sent to the target server through the video window so that it can control the target server's keyboard.
  - Send the mouse: mouse data can be sent to the target server through the video window so that it can control the target server's mouse.
- Mouse Setting
  - Single mouse cursor: when single mouse chosen, target server's mouse will show and remote user's mouse will hide
  - Single mouse Esc: press the keyboard "Alt + F10" exit the single mouse mode.
  - Cursor types: it can set remote user's mouse cursor type in double mouse mode
- Mouse Mode Setting:
  - Relative mode: Relative mode is compatible with almost all the operating systems; the factory default mode is relative mode.
  - Absolute mode: The absolute mode is not compatible with LINUX operating system.
- Full Screen Setting
  - Full Screen Zoom: If the "Full Screen Zoom" is disabled, the video will be displayed in the remote full screen; If the "Full Screen Zoom" is enabled and the target server's resolution is different from the remote user computer's resolution (the resolution of the general target server is less than the resolution of the remote user computer), the video plug-in will display the screen in the middle of the screen according to the resolution of the target server.

When users only have permission to view, remote users can only view the video window and cannot control it

lenu				
eyboard/mouse options	Screen optio	ns Short	ut options	
Keyboard/mouse sendin	g setting			
🔲 Send the keyboar	d	Γ s	end the m	ouse
Mouse setting				
Single mouse curse	or(Click the ima	ige <mark>are</mark> a to	take effe	ct)
Single mouse ESC	Alt+F10			•
	1,			
Cursor types	Arrow			-
1ouse modes setting —				
Relative		C Ab:	solute	
-ull screen				
Full screen zoom				
	T			. 1
Save		_	Cance	el

2.2 Display option

Display option dialogue shows screen parameters and screen information

- Frame Parameter
- Automatic calibration: The video window will automatically adjust the screen parameters of the target server to the default best effect.
- Contrast, brightness, hue and saturation: if "automatic calibration" is disabled, users can customize screen parameters of target server.
- Frame information
- Resolution: it shows the resolution of the target server. When the target server's platform is win10, it shows the resolution of video
- IP address: KVM switch's IP address
- Refresh Rate: video refresh rate
- Port number: video port number
- Manual calibration resolution: when the resolution of the target server is not consistent with the resolution of the video window, it can manually calibrate the resolution after calibration
- Target server resolution: resolution selection of manual calibration
- Target server's picture zooming: Under the win10 system, if the resolution is not the best resolution, the win10 system will zoom the video screen, and the video window cannot automatically identify whether the video source picture is zooming or not, then the user need to select the option by its own.

board/mouse	options Screen	options	Shortcut	options
ame paramete	er			
Automatic	calibration			
Contrast	191			
Brightness				
Hue	246			}
Saturation	188			
Resolution	800 x 600		IP	192, 168, 2, 221
Refresh	60	_	Port	1
Manual ca	libration resolution	n		
Target se	rvers picture zoon	ning(for \	Win10)	
	target 800 x 60	00	-	
Resolution of				

#### 2.3 Keyboard Shortcuts

Support 11 keyboard shortcuts, each with a maximum of 6 keys.

It can save shortcut keys and can be directly used when logging in next time.

Ctrl+Alt+Del	Send
Win+L	Send
Alt+Tab	Send
	Send

Click the blank input box to display the virtual keyboard, and click the keys on the virtual keyboard to display the input box.

Virtual keyboard	14
Esc         F1         F2         F3         F4         F5         F6         F7         F8         F9         F10         F11         F12	
~ 1 2 3 4 5 6 7 8 9 0 - = Backspace	Insert Home PgUp AumLood / * -
Tab         Q         W         E         R         T         Y         U         I         O         P         []         \	Delete End PgDn 7 8 9
CapsLock A S D F G H J K L ; ' Enter	4 5 6 +
Shift         Z         X         C         V         B         N         M         ,         ,         /         Shift	1 2 3
Ctrl Win Alt Space Alt Win Menu Ctrl	← ↓ → 0 . Enter

# 3) 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)

# 4) Mouse Synchronization

N

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



# 5) Single mouse

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

# 6) Source video params

Source video params		<b></b> X
☐ Reset Contrast 0 Brightness 96	 ок	Cancel

## 7) Optimum size

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



# 8) Full Screen

The video window enters full screen mode.

#### 6. IP Menu Option

#### 6.1 User management

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



#### User List

KVM	User management	System Settings	Safety management	System maintenance	Help	
Home > U	ser management > <mark>user list</mark>					
Please ent	er the user name	find				
					Each page shows:	16
	user name	user state		user group		
	admin	On		SUPER_USE	ł	
shows 1 to	1 items, 1 items in total					

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

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

# Add User

Click [add] button, the window below appears:

Home > User management > Add user	
Add user	
username *	
Please enter the user name	
Set password *	
Please enter password	
Confirm password: *	
Please confirm the password	
User groups *	
SUPER_USER	~
comfirm cancel	

# In this window, "\*" is required content

1) User name: user name contains only low case letter, number and "\_"

2) Enter password: without strong password protection, the password can only compose of 1-16 letters, numbers or special characters (-@. \$!\_); with strong password protection, the password should be filled in according to the rules of strong password protection. More details please check "[security management]—> [security setting]—> [strong password]".

3) User group: Select the corresponding user group

#### Delete User

#### Select the user you want to delete, click [delete]

ease ente	r the user name	find	
			Each page shows: 16
	user name	user state	user group
	admin	On	SUPER_USER
<b>V</b> →	user1	Off	SUPER_USER 2
ws 1 to 2	items, 2 items in total		

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

Edit user

# Click [1234], edit user window pops up

Home > U	lser management > user lis	t		
Please ent	er the user name	find		
			Each page shows:	16
	user name	user state	user group	
	admin	ick to edit the user	SUPER_USER	
	user1	Off	SUPER_USER	
hows <mark>1</mark> to	2 items, 2 items in total			
			Add delete	

Edit user username * user1 Original password: * Please enter the original password New password: * by1-16letters, Numbers, or special symbols of
user1 Original password: * Please enter the original password New password: *
Original password: * Please enter the original password New password: *
Please enter the original password New password: *
New password: *
by1-16letters, Numbers, or special symbols
Confirm password: *
Please confirm the password
User groups *
SUPER_USER

#### User group list

Home > Use	r management > user group list				
Please enter	the user group name	find			
			E	ach page shows:	16
	group id		user group name		
	0		SUPER_USER		
	1		usergroup1		
shows 1 to 2	items, 2 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

NUMBER           1         PORT UNIT           2         PORT_002           4         PORT_002           5         PORT_002           6         PORT_002           7         PORT_002           8         PORT_002           9         PORT_002           10         PORT_011           11         PORT_012           13         PORT_012	the point access     the	Annone Control	un Sollinge L	autola mana	permant L	зункан		
	the point access     the		um Sottinger 🖬	wohoday meanage	permant L	J system		e patona
Person         Analytics           Person         Person constraints           2         Person constraints           2         Person constraints           2         Person constraints           3         Person constraints           4         Person constraints           6         Person constraints           6         Person constraints           7         Person constraints           10         Person constraints           12         Person constraints           13         Person constraints           14         Person constraints           15         Person constraints           16         Person constraints           17         Person constraints           18         Person constraints           19         Person constraints           10         Person constraints           11         Person constraints           12         Person constraints           13         Person constraints           14         Person constraints           15         Person constraints           16         Person constraints           17         Person constraints           18	the point access     the		on Sottene La	subty memory	georecout La	J system		1 2120
Person         Analytics           Person         Person constraints           2         Person constraints           2         Person constraints           2         Person constraints           3         Person constraints           4         Person constraints           6         Person constraints           6         Person constraints           7         Person constraints           10         Person constraints           12         Person constraints           13         Person constraints           14         Person constraints           15         Person constraints           16         Person constraints           17         Person constraints           18         Person constraints           19         Person constraints           10         Person constraints           11         Person constraints           12         Person constraints           13         Person constraints           14         Person constraints           15         Person constraints           16         Person constraints           17         Person constraints           18	the point access     the		on Sottings Li	suf-cty manag	perment La	d system	- shread	f schound
Institution         Institution           1         Host Handles           2         Host Handles           4         Host Handles           4         Host Handles           5         Host Handles           6         Host Handles           8         Host Handles           9         Host Handles           10         Host Handles           11         Host Handles           12         Host Handles           13         Host Handles           14         Host Handles           15         Host Handles           16         Host Handles           17         Host Handles           18         Host Handles           19         Host Handles           10         Host Handles           11         Host Handles           12         Host Handles           13         Host Handles           14         Host Handles           15         Host Handles           14         Host Handles           15         Handles           16         Handles	In the Unit of decline of in the Unit of in the Unit of in the Unit of decline of de	ALTER OF A					- sheen	d telepiper
Image         Instruction           1         Instruction           2         Instruction           4         Instruction           5         Instruction           6         Instruction           7         Instruction           8         Instruction           9         Instruction           10         Instruction           11         Instruction           12         Instruction           13         Instruction           14         Instruction           15         Instruction           16         Instruction           17         Instruction           18         Instruction           19         Instruction           10         Instruction           10         Instruction           10         Instruction           10         Instruction           10         Instruction           11         Instruction           12         Instruction           13         Instruction           14         Instruction           15         Instruction           15         Instruction      1	In the Unit of decline of in the Unit of in the Unit of in the Unit of decline of de	ALTER OF A					+ should	E sitesaad
Image: Processing of the second of	In the Unit of decline of in the Unit of in the Unit of in the Unit of decline of de	ALTER OF A						
Host out           2         Paral_0003           3         Paral_0003           4         Paral_0003           4         Paral_0003           6         Paral_0003           6         Paral_0003           6         Paral_0003           6         Paral_0013           10         Paral_013           12         Paral_013           13         Paral_013           14         Paral_013           15         Paral_013           16         Paral_013           17         Paral_013           18         Paral_013           19         Paral_013           10         Paral_013           11         Paral_013           12         Paral_013           13         Paral_013           14         Paral_013           15         Paral_013           16         Paral_013           17         Paral_013           18         Paral_013           19         Paral_013           10         Paral_013           11         Paral_013           12         Paral_013 <t< td=""><td>decime V to the U decime V decime V decime V decime V decime V decime V decime V decime V decime V decime V</td><td>decine V decine V</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	decime V to the U decime V decime V decime V decime V decime V decime V decime V decime V decime V decime V	decine V decine V						
2         Particlosol           4         Particlosol           4         Particlosol           4         Particlosol           6         Particlosol           6         Particlosol           6         Particlosol           10         Particlosol           11         Particlosol           12         Particlosol           13         Particlosol           14         Particlosol           15         Particlosol           16         Particlosol           17         Particlosol           18         Particlosol           19         Particlosol           19         Particlosol           19         Particlosol           19         Particlosol           19         Particlosol           10         Particlosol           11         Particlosol           12         Particlosol           13         Particlosol           14         Particlosol           15         Particlosol           16         Particlosol           17         Particlosol           18         Particlosol	decime V to the U decime V decime V decime V decime V decime V decime V decime V decime V decime V decime V	decine V decine V						
-         -	r k + the W decima V s k + the V s k + the V s k + the V s k + the	desires V desires V desire						
Policipae	decline V tentre V decline V decline V decline V decline V decline V decline V	dedine V hashes V desine V desine V dedine V dedine V dedine V dedine V dedine V dedine V dedine V dedine V dedine V						
v         ного, ного,	A a har. D de chire D i a har. D de chire D i a har har. D de chire D	Anima O Begine O Anima O						
6 Perc. 1997 8 Perc. 1997 9 Perc. 1997 10 Perc. 1997 11 Perc. 1917 12 Perc. 1917 13 Perc. 1917 14 Perc. 1917 15 Perc.	destine V Actine V destine V destine V destine V destine V destine V destine V destine V destine V	destine Asstant V destine						
2 energenov 6 energenov 10 energenov 10 energenov 11 energenov 12 energenov 13 energenov 14 energenov 15 energenov 16 energenov 16 energenov 16 energenov 17 energenov 18 e	A a tua. W decting W Automotive decting W decting W decting W decting W decting W	Andree D decine D decine D decine D decine D decine D decine D decine D decine D						
6 Port, 600 6 Port, 600 11 Port, 600 12 Port, 600 13 Port, 610 14 Port, 610 15 Port, 613 16 Port, 613 18 Port, 613 19 Port, 613 10 Port, 613 11 P	dectine V startman V deathine V deathine V deathine V deathine V deathine V	decline V christer V christer V christer V christer V christer V christer V christer V christer V christer V						
6         Some, 1000           30         Point, 0000           31         Point, 0000           31         Point, 0010           31         Point, 0010           31         Point, 0010           315         Point, 0010           316         Point, 0010           317         Point, 0010           318         Point, 0010           319         Point, 0010           321         Point, 0020           322         Point, 0020           323         Point, 0020	dadha Y dadha Y dadha Y dacha Y dacha Y dacha Y	charbora M dealtine M dealtine M dealtine M dealtine M dealtine M dealtine M						
10         Nucl. 030           11         Port, 012           12         Port, 012           13         Port, 013           14         Port, 014           15         Port, 013           16         Port, 014           17         Port, 013           18         Port, 013           19         Port, 013           19         Port, 013           10         Port, 013           11         Port, 013           12         Port, 013           13         Port, 013           14         Port, 014           15         Port, 013           16         Port, 014	dadha Y dadha Y dacha Y dacha Y dacha Y	desiline V ikoʻsini V deciline V dociline V decine V decine V						
11         Part_011           32         Port 014           15         Port 014           15         Port 014           15         Port 014           17         Port_017           18         Port 014           19         Port_012           10         Port_012           11         Port_022           12         Port_023           13         Port_024           14         Port_024	darine V decine V decine V decine V	skurben V decline V decline V decline V decline V						
12         FAUL 0.12           15         Print_0.013           16         Paul_0.15           15         Paul_0.13           16         Paul_0.13           17         Paul_0.13           18         Paul_0.13           19         Paul_0.13           19         Paul_0.13           10         Paul_0.14           11         Paul_0.14           12         Paul_0.13           13         Paul_0.14           14         Paul_0.14           15         Paul_0.13           16         Paul_0.14           17         Paul_0.15	decline V decline V decline V	decline Y decline Y decline Y decline Y decline Y						
III         Part_013           14         Polic 014           15         Polic 015           16         Polic 014           17         Polic 014           18         Polic 015           19         Polic 017           10         Polic 018           11         Polic 013           12         Polic 013           21         Polic 013           22         Polic 023           23         Polic 024	decine 💽 decine 💽	decline V decline V						
14         Hote 014           15         Party 015           16         Hote 014           17         Party 015           18         Hote 014           19         Party 015           19         Party 014           11         Party 014           21         Party 024           23         Party 022           24         Barry 024	decine 💽	decline 🕑 decline 🕑						
15 Port_015 16 Port_016 17 Port_017 18 Port_019 19 Port_019 10 Port_019 14 Port_019 24 Port_019 25 Port_012 25 Port_012 25 Port_012 25 Port_012 26 Port_019 26 Port_019 26 Port_019 27 Port_019 28 Port_019 29 Port_019 20 Port_019 29 Port_019 20 Po	decime [9]	decline (9)						
16         Port 014           17         Port_012           18         Port_012           19         Port_012           21         Port_012           21         Port_012           23         Port_012           24         Port_012		(des.line)						
17 Port_017 18 Port_010 19 Port_010 21 Port_021 21 Port_021 23 Port_022 24 Port_023	chestine Se							
18         Port_018           19         Port_019           21         Port_021           22         Port_022           23         Port_023		starting (we)						
19         Port_019           21         Port_021           23         Port_022           24         Port_023	the second second second	1000						
Mill         Mill <th< td=""><td></td><td>decine (W)</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		decine (W)						
31         Purt_031           22         Purt_023           23         Purt_023           24         Purt_023		statute (V)						
23 Port_023 24 Port_024		steatine [W]						
23 Port_023 24 Port_024		statute (w)						
>		decline ()						
		sha bras						
		dectine (w)						
26 Port_026		decision 💌						
22 Port 027		standing [w]						
20 Port_020	doutanes w	dewiterer (						
29 Port 029	decime w	dectine 🛩						
30 Port_030	decine 🐨	dection 😒						
21 Fort 023	alara Merca 😒	aboutter 💽						
33 Poit_033	abactance 🐨	dectres 🛩						
	eserned			C) All vis		e-1		
C All ports for vi				O ALVH	and sectorized the model	weither		
C All ports are o	and the second s			C) All VH	Access is read	and write		

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

- Authority: mainly refers to management authority and operation authority, click show more, permission menu appears (shown in picture above), click show less, permission menu disappears.
  - ♦ Port Access: Permission to access KVM, and control target server
  - ♦ User Management: user management permission
  - ♦ Device Setting: KVM device management permission
  - ♦ Security Management: security management permission
  - ♦ System Maintenance: system maintenance permission

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

## Delete user group

Select the user group you want to delete, click [delete]

Home > User m	nanagement > user group list		
Please enter the	e user group name	find	
		Each page shows:	16
	group id	user group name	
	0	SUPER_USER	
1	1	usergroup1	
shows 1 to 2 iter	ns, 2 items in total	2	
		Add 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

Home > User management > Modify password
Modify password
original password: *
Please enter the original password
new password: *
Please enter the new password
Confirm password: *
Please enter your new password again
comfirm cancel

- 1) Old password: Enter the old password.
- 2) New password: Input new password. When strong password protection is not set, the password can only consist of 1-16 letters, numbers or special characters (-@.\$!\_); if strong password protection is set, the password must be filled in according to the rules of strong password protection, Please refer to "[security management]—>[security setting] —>[strong password] " for details.

# 6.2 System Settings

System Settings
Network Settings
Date/time
Encoding parameters
Serial port setting

# **Network Settings**

Nic set		
IPv4 address:		
192.168.0.168		
Subnet mask:		
255.255.255.0		
default gateway:		
192.168.1.1		
mac address:		
00:4a:b6:68:9a:3	1	
DCSG Ip:		
192.168.1.100		
DCSG Port :		
5500		

# I P v 4 address setting:

♦ I P address: preset IP address

 $\diamond$  Subnet mask: Generally, it should be consistent with other devices in the network.

 $\diamond\,$  Default gateway: Generally, it should be consistent with other devices in the network.

♦ MAC address: physical address

 $\diamond\,$  DCSG IP: the IP address should be the same with the Authentication Server IP address

 $\diamond$  DCSG Port: The Port should be the same with the Authentication Server Port.

# Date/Time

۲	User setting time	
Set	date:	
20	19-03-08	
Sett	ing time:	
10:	:20	
	Synchronize with the NTP server	
Tim	e server:	
۲	Time Zone Settings	
Sele	ect time zone:	
Fa	st 8 (Beijing, China)	

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**

r

	-	Encoding paramete	
ncoding para	meters		
Encoding para	meters		
Video formats	: PAL		
Stream type:	Main stream		
Frame rate:	25		
IP ratio:	25		
Rate limit:	4MBPS 🗸		
	confirm	cancel	

# Video format: PAL format

Stream type: high definition of the main stream, low definition of the secondary stream Frame rate: the number of frames encoded per second

IP ratio: the ratio of I and P frames per second

Upper limit of code rate: the maximum code rate of encoding channel (1-12MBPS)

# Serial port setting

rial port	setting		
Baud rate		50 🗸	
Check bit		No 🗸	

6.3 Security Management



#### Security Settings

ecurity Settings	
logon restrictions	Login lock
Restrict single sign-on.	Disable lock
Enable password expiration 🔲 50 (1~365day)	Account lock O Attempts 60
Cancellation free user 🗌 36 (1 ~ 60 minutes)	Timed lock O Attempts 60 Locking time 2 (1-144
Strong password	minutes)
Enable password strength rules	Encryption scheme
At least one lowercase letter.	Local information encryption mode. No encryption
At least one numeric character.	Encryption mode is applied to KVM and virtual media. $\hfill \square$
Jeer password history depth. 3 Minimum/maximum password length. 1 - 16	Local device reset mode. Enable Local Fact

Login restriction: user name login restriction

 $\diamond\,$  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

 $\diamond\,$  Free user logs 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

 $\diamond\,$  Timed lock: set the account lock time when account login failed attempts are over the setting number of times

Strong password

 $\diamond\,$  Enable strong password: when it is selected, the original password will be forced to be changed

 $\diamond$  Password history depth: new password cannot be the same as the latest 3 default passwords, this number can be changed, it ranges from 1-10

♦ Strong password length: From 1-bit to16 bits.

Encryption mode

DES

AES128

♦ Local information encryption mode: AE\$256 three encryption schemes and one un-encryption scheme

 $\diamond$  Encryption mode is applied to KVM and virtual media: applied when it is selected

#### Audit Log

naintype:	all 🗸	subtypes all	~	date selection: 2019-03-09 00:00:00 to 2019-03-09 10:23:2
				Each page shows:
number	date	maintype	subtype	description
1	2019-03-09 08:00:07	operations	system boot	The user 'admin' 'system boot' on the host IP is '127.0.0.1'
2	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
3	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
4	2019-03-09 08:00:11	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'
5	2019-03-09 08:00:12	view	get config.	The user 'admin' 'get config.' on the host IP is '192.168.0.168'

# 6.4 System Maintenance

System maintenance
Backup&recovery
Ping the host
Equipment management
remote upgrade

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

Bac	kup&	recovery	

Ho	me > system maintenance > backup recovery
bac	kup recovery
b	ackup configuration file
	comfirm
n	scovery
n	estore backup recovery : recovery
fa	actory 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 the host

ng the host	
IP address	
Ping	
result	

# Test network connection status 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

Home > System	maintenance > equipment manag	gement
equipment manag	gement	
Reboot device		
Reboot mode :	Reboot device	

#### Remote upgrade

Provide users with better upgrade experience and continuous technical support

mote upgrade	
more upgrade	
upload file	

#### Upgrade method:

Click [browse] and select upgrade file, upload the file to the device, then click [upgrade]to finish upgrade

# 7. Appendix

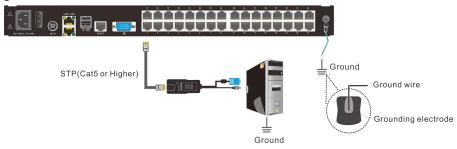
7.1 Specifications (17")

Model		HT5708	HT5716	HT5724	HT5732		
Computer	Direct	8	16	24	32		
Connections	Max	8	16	24	32		
Port Selection	Keyboard, Mouse	Button, UI	, Web, Hotk	ey	·		
	Model	SXGA TFT					
	View Area	17 "					
	Optimum Resolution	1280×1024@60Hz					
LCD Monitor	Color	16.7 М (Тур)					
	Brightness	250 cd/m² (Typ)					
	Contrast Ratio	1000: 1					
	Pixel Pitch(mm)	0.264(H) × 0.264(W)					
Mouse X/Y Resolution Scroll Wheel		>1000 points / inch, ( 40 points/mm )					
		Supports Scroll Wheel function					
Keyboard		99 keys (82 keyboard + 17 number pad)					
Remote Control		KVM Control (ActiveX)					
Remote	Management	Web					
Remote	Security	DES Encrypted					
	Resolution	1920×1080@60Hz					
Power Input		100V- 240Vac, 50-60Hz, <1.5A					
Power Consump	tion	25W	27W	29W	31W		
Operating Temp	erature	0 − 50 °C					
Store Temperatu	ire	-20 —60 ℃					
Humidity		0 —80% RH, non-condensing					
Net Weight		13kg	13kg	13.2kg	13.2kg		
Product Dimensi	on (W × D × H)	448mm × 581mm × 42.5mm					
Package Dimension (W × D × H)		765mm × 615mm × 185mm					

Model		HT5908	HT5916	HT5924	HT5932	
Computer	Direct	8	16	24	32	
Connections	Max	8	16	24	32	
Port Selection	Keyboard, Mouse	Button, UI	, Web, Hotke	ey	1	
	Model	SXGA TFT				
	View Area	19 "				
	Optimum Resolution	1280×1024@60Hz				
LCD Monitor	Color	16.7 M				
	Brightness	250 cd/m <sup>2</sup>				
	Contrast Ratio	1000: 1				
	Pixel Pitch(mm)	0.2928(H) × 0.2928(W)				
Mouse X/Y Resolution Scroll Wheel		>1000 points / inch, (40 points/mm)				
		Supports Scroll Wheel function				
Keyboard		99 keys (82 keyboard + 17 number pad)				
	Remote Control	KVM Control (ActiveX)				
Demete	Management	Web				
Remote	Security	DES Encrypted				
	Resolution	1920×1080@60Hz				
Power Input		100V- 240Vac, 50-60Hz, <1.5A				
Power Consump	tion	27W	29W	31W	33W	
Operating Temp	erature	0 − 50 °C				
Store Temperate	ure	-20 −60 °C				
Humidity		0~80% RH, non-condensing				
Net Weight		13.4kg	13.4kg	13.6kg	13.6kg	
Product Dimens	ion (W × D × H)	448mm × 605mm × 42.5mm				
Package Dimens	ion (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.

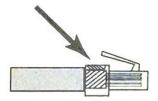


To improve the device safety, please make sure the device is connected to the ground and use the STP cable to connect the device.

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.

