

# **19 INCH LCD IP KVM SWITCH**

User manual

## Features and specification

### Features

- ◆ Integrate 19 inch display/mouse/keyboard/smart KVM switch
- ◆ The resolution of product display up to 1280\*1024
- ◆ Support password protect and look up the server name
- ◆ Adjust LCD display function, guide with auto-locked device
- ◆ Support full DDC2B, can detect the model of display without switching PC
- ◆ Support double interface- The server of PS/2 or USB keyboard or mouse input use simultaneously
- ◆ Withdrawing design, adjust the length to suit for cabinets.
- ◆ Support cascade, most control 240 Pcs
- ◆ Don't need external software, port selected by hot-key, OSD menu and push button
- ◆ 102 key keyboard and touchpad sliding mouse
- ◆ System supported: Dos/ Windows, Linux, Unix, Mac OS8.6/9/10, SUN Solaris 8/9

## Products description

KVM is the acronym of keyboard, video, mouse. Set keyboard, mouse, display in one of the intelligent switching control platform. KVM switching system that is many computers be connected together by single or multile KVM switch, to achieve a user using one control platform (a keyboard, mouse, monitor) to control multiple host.

This series of KVM control platform has the features of improving efficiency, easy to use, easy to manage, cost saving, remote management and environmental protection and energy saving . The height is standard 1U and meets the 19 inch shelving structure, saving more than 85% of cabinet space.

This series of KVM supports SUN, IBM, HP, DELL, Baode, Inspur, dawn, Lenovo and other original servers and Advantech, EVOC, Cresun, Volkswagen, ICP, Ai hearing and other IPC. Support DOS, Windows9x, NT, Win2000, WinXP, Win7, LINUX, Novell. And many other operating systems.

**Front**



## Lateral



## 16 port IP LCD KVM switch port instruction



① KVM input port

② KVM output port

③ USB Hub

④ Power port

⑤ USB interface and ⑥ serial ports  
are vendor-specific interfaces,  
Client can not use.

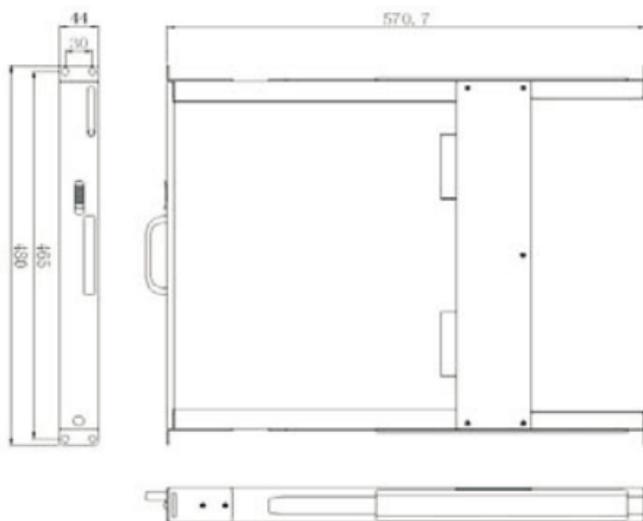
⑦ LAN port: Ethernet interface

## Specification

LCD	Screen type	XGATFT LCD
	Size	4:3 19 inch
	Visual area	340(H) x 270(V)
	Resolution	1280*1024
	Color display	16.7M
	Brightness	300(CD/m <sup>2</sup> )
	Contrast	1000:1
	Pixel spacing	0.242(H) X 0.242(W)
	Use life	LCD MTBF >5000H, Backlight MTBF >3000H
	Power consumption	Max. 24W
Keyboard	keyboard design	102 key
	Compatible	IMB/AT, support Microsoft Windows 9x/ Me/nt/2k/XP
	Port	PS/2
	Use life	>1,000,000 times
Mouse touch panel(2 button)	Port	PS/2
	System	Support Microsoft Windows9x/Me/nt/2K/XP
	Use life	>1,000,000 times
Power input	DC12V	
Case Color	Black	
Housing	Galvanized electrolytic plate	
N.W./G.W.	15kg/22.4kg	
Dimension(L x Wx H)	48*57.07*4.4 cm	
Cabinet installation depth	600-810mm(adjust the ear)	
Operation Temp.	-45~60°C	
Storage Temp.	-20~65°C	

## Structure and Dimension

The outside structure 16 Port. The detail see below:



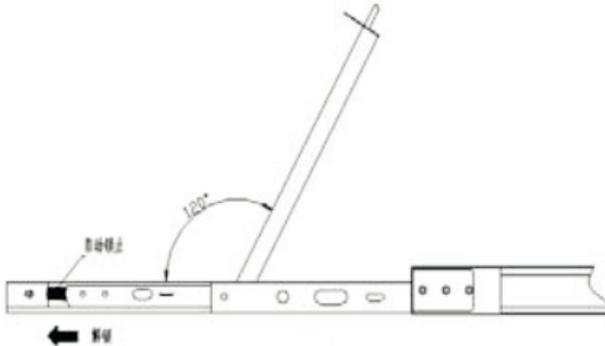
## Usage

### Operation step

- A) Please confirm again before use: LCD KVM intelligent control platform has been safely grounded, KVM signal cable, the power cord is properly connected
- B) Pull the console completely out of the cabinet, the rail locks automatically, and release the front panel latch in the direction of the arrow (see below)



C) Open the front panel, LCD screen can be opened to 120 degrees, use only adjust the best viewing angle, easy to operate and use (see below)



D) Press the OSD power switch on the LCD screen, the LCD power indicator turns green, and the LCD screen starts to work. At this time, you can use the keyboard and mouse touchpad to operate normally.

## Hotkey command introduction

In addition to the front panel buttons, the KVM switch port can also be used via a simple keyboard combination. Simply press the HOME / Cap / Scroll / Num keys twice within 2s to send a command to the KVM and you will hear " Beep ". After confirm that you can use the hotkey command, this product has multiple modes to choose. HOME + HOME is the default mode, when you do not want to use this mode, you can choose another command mode. The following is the way to set different hotkey mode.

 +  default mode

 +  + Caps Enter hot-key Caps mode

 +  + Scroll Enter hot-key Scroll mode

 +  + Num Enter hot-key Num mode

### Default mode command

 +  + 1, 2..... Switch to the corresponding por

 +  + → or ↓ Switch to Next

 +  + ← or ↑ Switch to Pre

 +  + B Off/ on the buzzer

 +  + S Auto-scanning, press any key to stop auto-scanning

Home+ home + Num. +enter: set the auto-scanning intervals, from 5 - 999s

If you would like to use Caps mode, please press Home+ Home+ Caps first

### Caps mode Command

 +  + 1、2.....	Switch to the corresponding port
 +  + → or ↓	Switch to Next
 +  + ← or ↑	Switch to Pre
 +  + B	Off/ on the buzzer
 +  + S	Auto-scanning, press any key to stop auto-scanning

Caps+ Caps+ I+ Num+ enter set the auto-scanning intervals, from 5 - 999s

## OSD menu operation

Hot-key also can be achieved under OSD mode, According to the below way to choose one hot-key port from OSD menu.

Home+ Home+ Enter to active OSD menu.

Note: If you are using OSD, you can click directly when you are on the main menu.

Main menu

```

===== OSD =====
USER : ADMIN          C : 00
KVM  : 8 PORTS      VER : 0 - 01
! 01 - SERVER-01      T ON
 02 - SERVER-02      T
 03 - SERVER-03      T
 04 - SERVER-04
 05 - SERVER-05
 06 - SERVER-06
 07 - SERVER-07
 08 - SERVER-08
F1 - NAME      F2 - SCANTAG      F3 - SYSTEM
F4 - SCAN      F6 - ACCESS
F7 - SECUC

```

1

**USER : ADMIN** : According to User selected, red letter will be revised

**C : 00** : Cascade indication, 00 represents the first level, 00 represents the second level

**KVM : 8 PORTS** : The digital of port:16 shows 16 port KVM switch

**!** : Port selected

**T** : The port auto-scanning selected

**ON** : USB port is connected correctly

Menu set

F1: To revise the name of port

F2: Set the port to be scanned, used with auto-scanning mode  
2 TAG (press F2 to open or close the scan, identify "T",  
as shown in Figure 2 below)

F3: Set system

F4: Scan port

F6: Set the host to be assigned non-administrator users (which  
hosts User 1-7 can operate)

F7: Set user login

Note: F1, F2, F3, F4, F6, F7 need to press on keyboard.

▷ F1: Modify the host name



2

Note: You can change the name of the host as you like, use the  
keyboard up and down key to control, when you need to change  
the host name, press the enter on keyboard can be changed

▷ F3: System setting



3

Setting method: Under the current option, press enter to enter the setting:

01: Buzzer on/ off

02: Autoscan Mode

0: All of ports

1: The option ID only scans the PC port connected to the USB

03: Autoscan interval, default 5s

04: After switching, the OSD shows the Banner interval

05: After switching, OSD shows banner position, after entering, press Alt+ "?????" key to adjust position

06: Plugin Jump Mode

- 0: The device will be automatically switched to the port just inserted into the USB device when all the ports are free
- 1: Plug in a USB device (When USB port has a 5V devices input), it automatically switches to the one you plugged in, giving priority.
- Note: The PLUGING JUMP MODE setting is only useful if JUMP CHECK is set to 1.
- 07:JUMP CHECK
- 0:NONE: Does not detect, Port switching could via panel keys or hotkey
- 1:POWER: Detects the USB is correctly plugged in and can only be switched on the port where the USB device is plugged in
- 08:Check the software version information
- F7:Enter the user settings



When you press F7 into the user settings, the screen shown in Figure 4, SECURITY: Y represents that need the password to enter, N on behalf of don't need the password to enter, press the "?" into the user account, Press "enter" to into, enter the screen as Figure 5



5

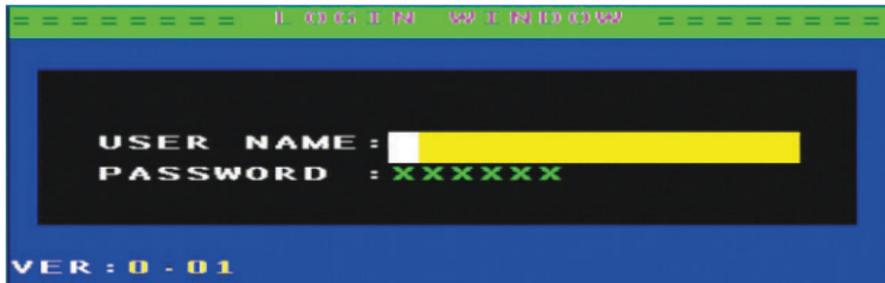
F1: modify the user name (user name: ADMIN, USER1, USER2, USER ..... behind 6 X is hidden password, you need to press F9 to view)

F9: View the current password (the figure above by F9 shows the first user's default password is 000000)

F4: Change the password

However, when set to Y, the OSD adds F5: LOGOUT options.

Each time you login will be prompted, as shown in Figure 6:



6

Figure 6

USER Name: the user name above Figure 5,

Password: the password behind the user name, then you need to submit the user name and password to enter

- ▷ F6: Set and assign the administrator user host (which hosts User 1-7 can operate)



7

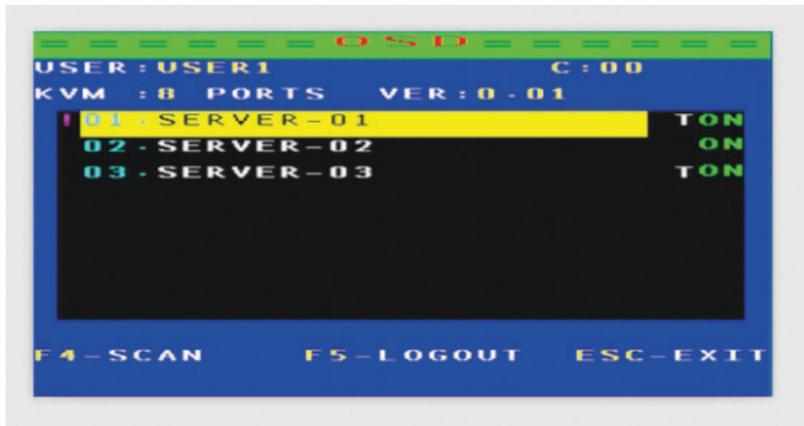
When you press the "F6" into Figure 7 picture, then press F1, F2, F3, F4, F5, F6, F7, the light green in the OSD menu will appear 1, 2, 3, 4, 5, 6, 7 . These numbers represent USER1-7 users, press F12 to assign all users: DEL DELETE ALL USER'S PERMISSIONS.

For example: in Figure 7, SERVER-01 ~ SERVER-03, each of these hosts have eight users, when you enter any one user can enter to control these three hosts: At this time when you press F5 to enter the user login picture( Figure 6) write User name: USER1, password: 111111 interface as Figure 8, you can see that 1,2,3,4,5,6 computers you can operate.



8

input the user name: user-03, password: 333333, you can see that only 1,2,3 computers can operate, and so on



9

The default administrator user name: Admin, password: 000000, when you use this account, you can operate any host

Noted: When you forgot password, please set user name: Admin, password: MTVIKI.

Press the keyboard HOME + HOME + F + L + A + S + H + Enter to enter the initial settings

## Cascade installation steps

### Precautions before installation:

Make sure all the devices you want to connect are power off. In order to the installation is not damaged, please check all devices are well connected, and you can ask for all the detailed support from your vendor if you need.

Connect output source, input source, cascade cable and keyboard, mouse.

Connect the power adapter after output source, input source, cascade cable connected to prevent the keyboard stuck phenomenon.

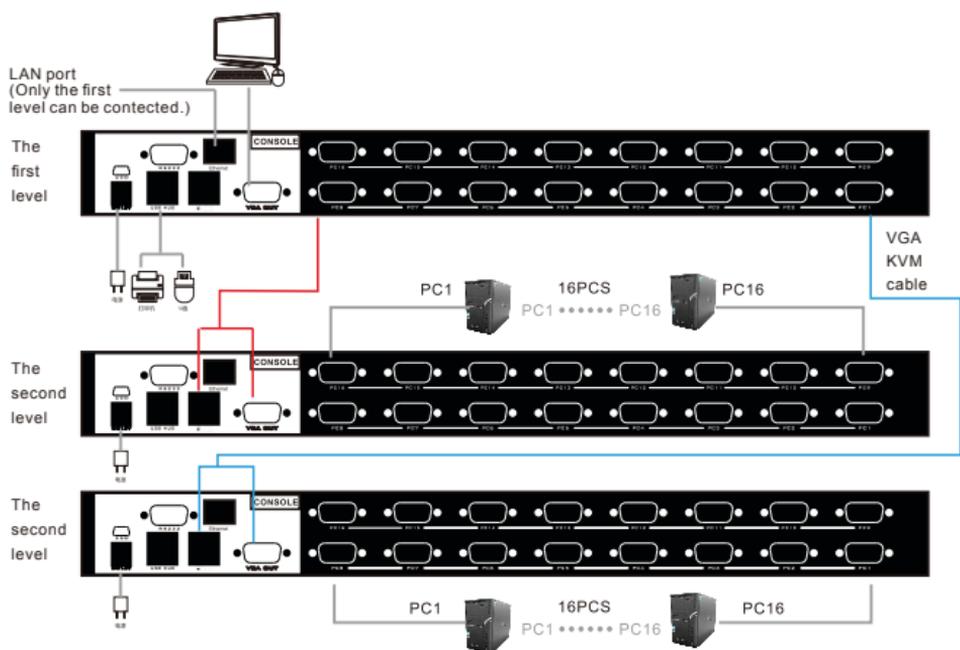
Please start PCs after all done.

After cascade, switch method: Panel button, OSD switching: press HOME+ HOME+ enter to activate OSD menu. You will see the picture on screen like figure 10:



1. Connect output source, input source, cascade cable and keyboard, mouse.
2. Connect the power adapter after output source, input source, cascade cable connected to prevent the keyboard stuck phenomenon.
3. Please start PCs after all done.
4. After cascade, switch method: Panel button, OSD switching: press HOME+ HOME+ enter to activate OSD menu. You will see the picture on screen like figure 10:

### 16 port cascade diagram



Note: 16 port KVM switch connect up to 240 Pcs.

Please note that the wiring connecting sequence, if reverse, may result in product burnout, the consequences.

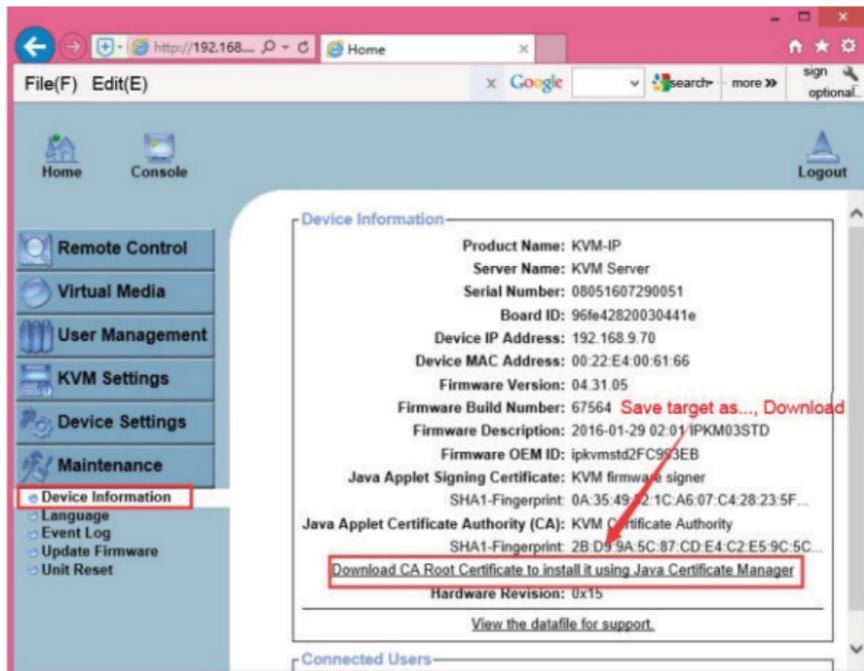
## IP control steps

### Application Software Description

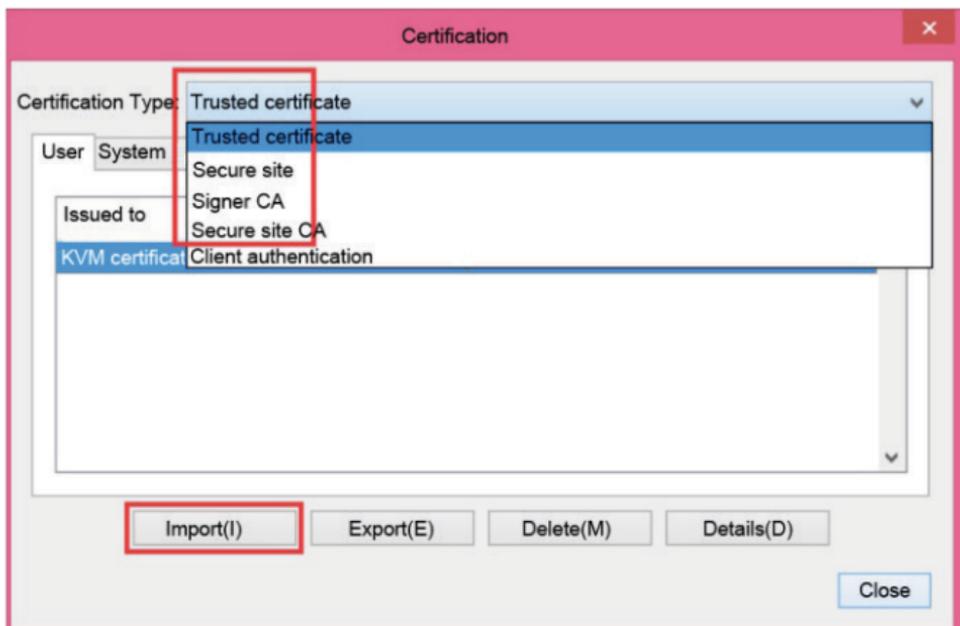
1. In order to remotely control KVM, your operating system must support the 5.0 (V1.5) JRE (Java Runtime Environment). You can download it from the following website: <http://www.java.com/>
2. For better use of features, it is recommended that you download the latest Java version
3. In the search panel of the computer control panel, enter: "Java" to see if "Java" is installed. If it is not installed, you need to download and install it first:



4. Download the certificate: "KVM\_certificate\_Authority.P12" or a copy in the CD



5. Import the certificate in Java, double-click Java, open the software, click security, certificate management, certificate type: "Trusted certificate" "Secure site" "Signer CA" "Secure site CA" must be imported "KVM\_certificate\_Authority.P12" certificate



## Network Configuration

### 1. KVM IP factory default settings

Default username: super

Default password: pass

DHCP: Disabled

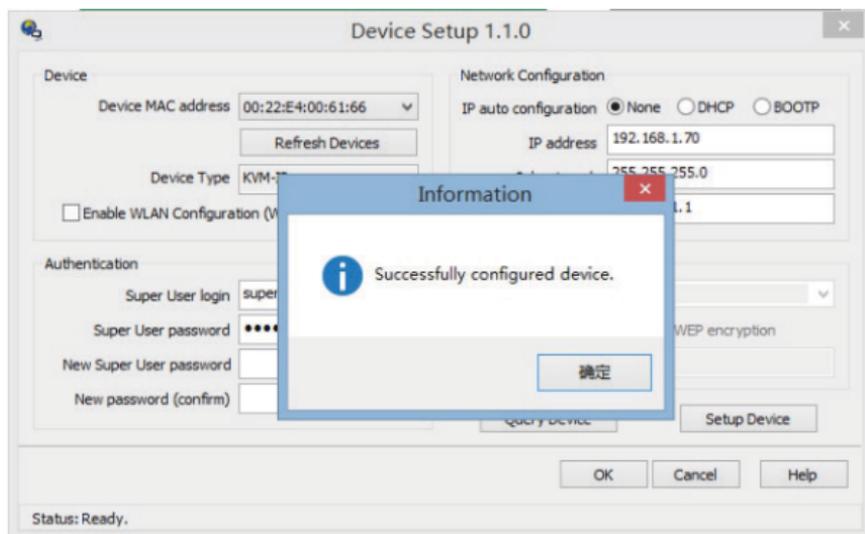
IP address: 192.168.0.70

Mask: 255.255.255.0

The network configuration software (psetup) is used to set the network configuration (IP address, mask, DHCP, etc.). When you want to change the network configuration or cannot connect IP-KVM because you do not know the IP-KVM network configuration, in this case, you can view or change the settings through this "Psetup" software

## Set a fixed IP

- 1) Use psetup to find IP-KVM.
  - Click the Refresh Devices button to detect the connected device
  - Select an IP-KVM MAC address in the "Device Mac address" box. You can find the MAC address label on the bottom side of the IP-KVM body.
  - In the right pane, click Query Device to query the IP configuration.
- 2) Set "IP auto configuration" to "None" and set the IP address and mask
- 3) Enter "super user login" and "super user password" for verification (default: super/pass)
- 4) Click Setup device. If login authentication passes, it will display "successfully configured device." Otherwise, it will show "permission denied".



## Get an IP from the DHCP server

- 1) Set "IP auto configuration" to "DHCP"
- 2) Enter "super user login" and "super user password" for verification (default: super/pass)
- 3) Click setup device. If login authentication passes, it will display "successfully configured device"
- 4) Use Psetup to determine the IP address
  - Click the refresh devices button to detect connected devices
  - Select a MAC address corresponding to IP-KVM in the "device Mac address" box. You can find the MAC address label on the bottom side of the IP-KVM body. The IP-KVM MAC address can be detected between the computer and IP-KVM via a USB A-mini cable or network connection.
  - In the box on the right, click Query device to query the IP configuration

Device Setup 1.1.0

Device

Device MAC address: 00:22:E4:00:61:66

Refresh Devices

Device Type: KVM-IP

Enable WLAN Configuration (WLAN Devices only)

Network Configuration

IP auto configuration:  None  DHCP  BOOTP

IP address: 192.168.1.70

Subnet mask: 255.255.255.0

Gateway: 192.168.1.1

Authentication

Super User login: super

Super User password: ●●●●●● ?

New Super User password:

New password (confirm):

Wireless LAN Configuration

Wireless LAN ESSID:

Enable WEP encryption

WLAN WEP Key:

Query Device Setup Device

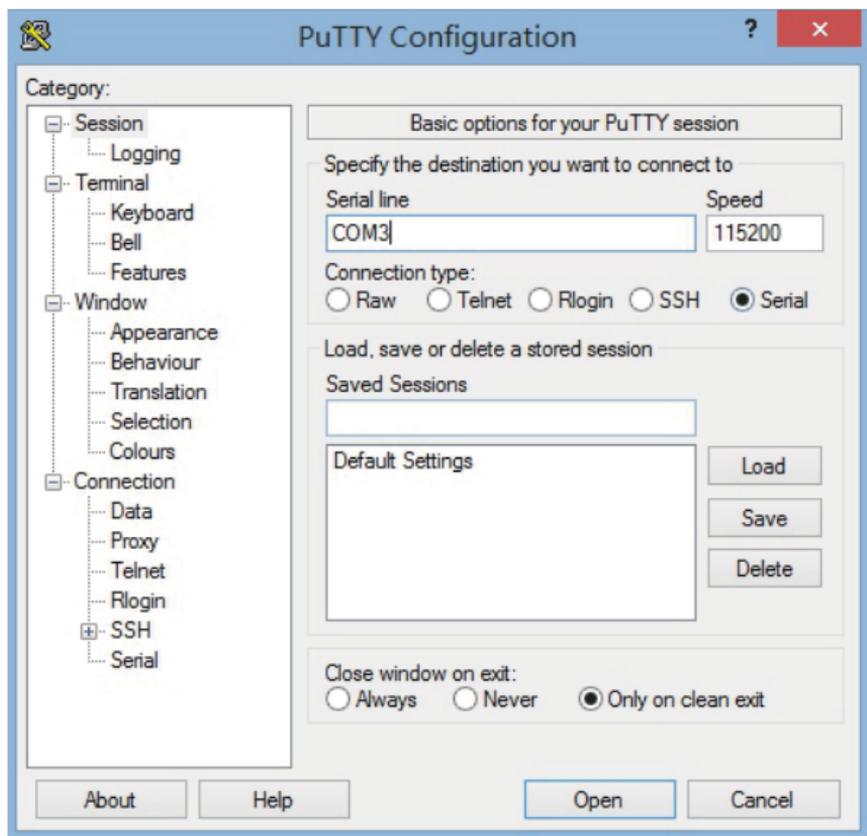
OK Cancel Help

Status: Ready.

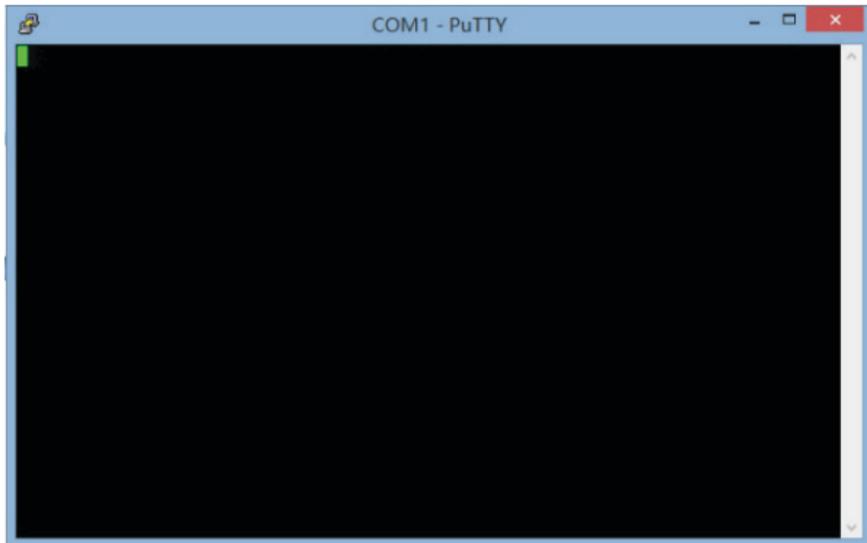
## Password reset

When the default password "pass" modified, and lost the modified password, then you can use the R232 serial port through the "PuTTY" software to restore the default password. (PuTTY software can be downloaded online)

1. After installing "PuTTY" software, click Open, select "serial", fill in the blank space under "serial line" with the current COM port (you can view the current port from the port managed by the device), fill "115200" in the blank space under "speed", as shown below:



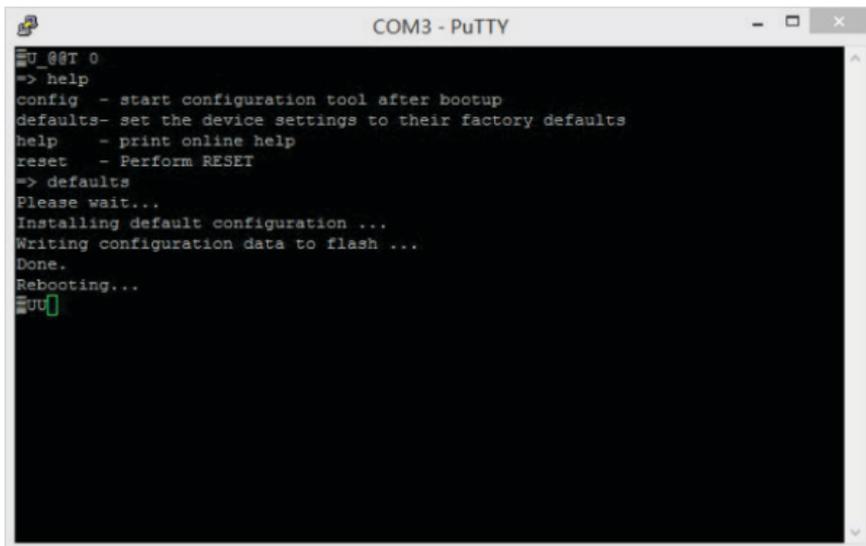
2. Click "open" to open the software as shown below:



3. While powering on the IP-KVM, press the "ESC" key on your computer's keyboard until you see the "=>" symbol. Enter "help" and press the enter key. Press Enter after input "default". Wait until the interface appears:

- Installing default configuration ...
- Writing configuration data to flash ...
- Done.
- Rebooting...

As shown below: Please re-power! The password recovery default value is successful.



```
U @#T 0
=> help
config - start configuration tool after boctup
defaults- set the device settings to their factory defaults
help - print online help
reset - Perform RESET
=> defaults
Please wait...
Installing default configuration ...
Writing configuration data to flash ...
Done.
Rebooting...
U
```

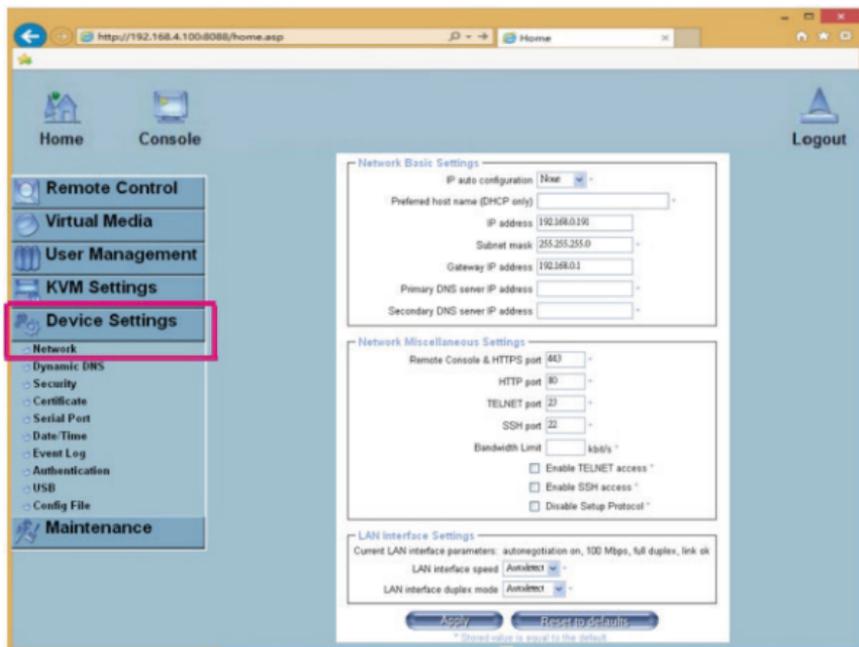
## Using a web browser

You can access the IP-KVM after learning of the IP address through a web browser. After the user name and password are used for login authentication, you can access the IP-KVM web server through a web browser.

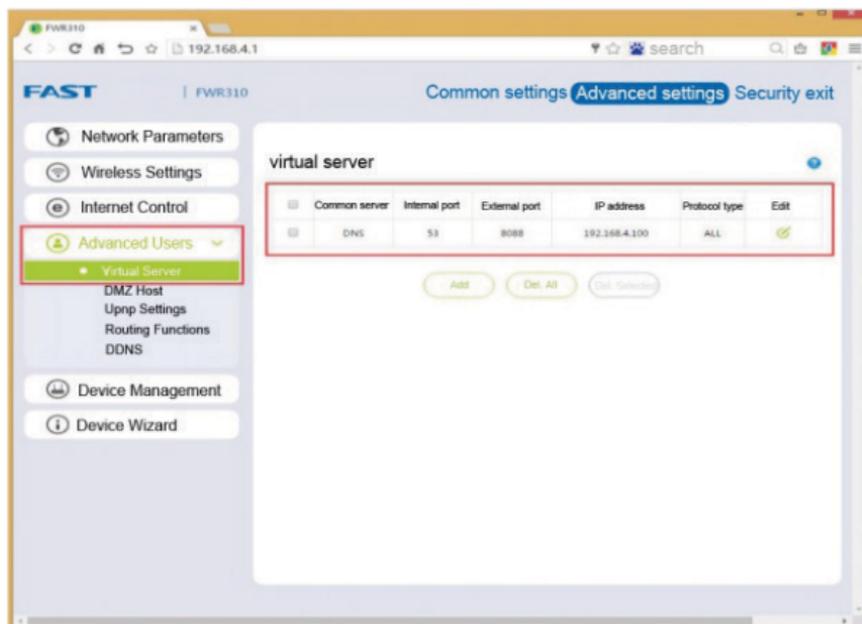
For example, when you type the following string in your browser URL field, a passwordless connection is established: `http://<IP-KVM's IP address>` When using a secure connection, enter `http://<IP-KVM's IP address>`

This will guide you to the IP-KVM login page as shown below.

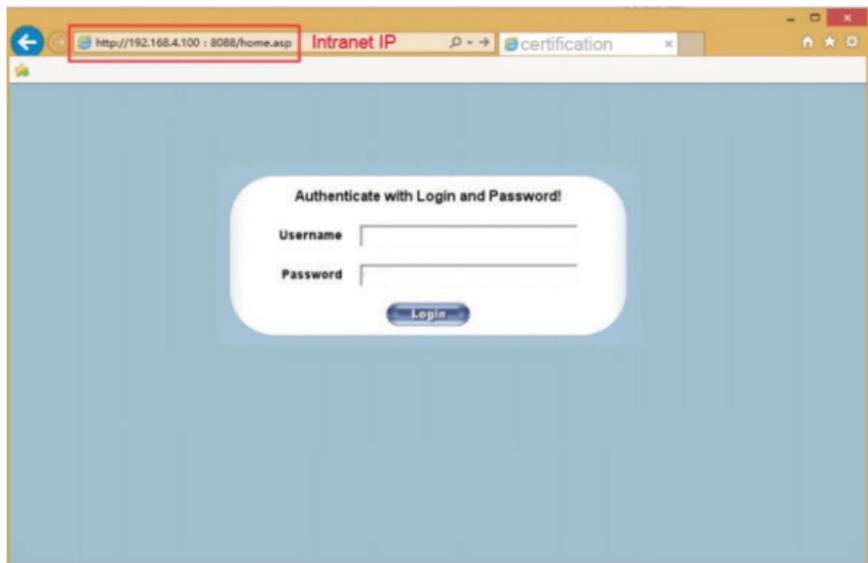
IP-KVM network parameter setting reference:



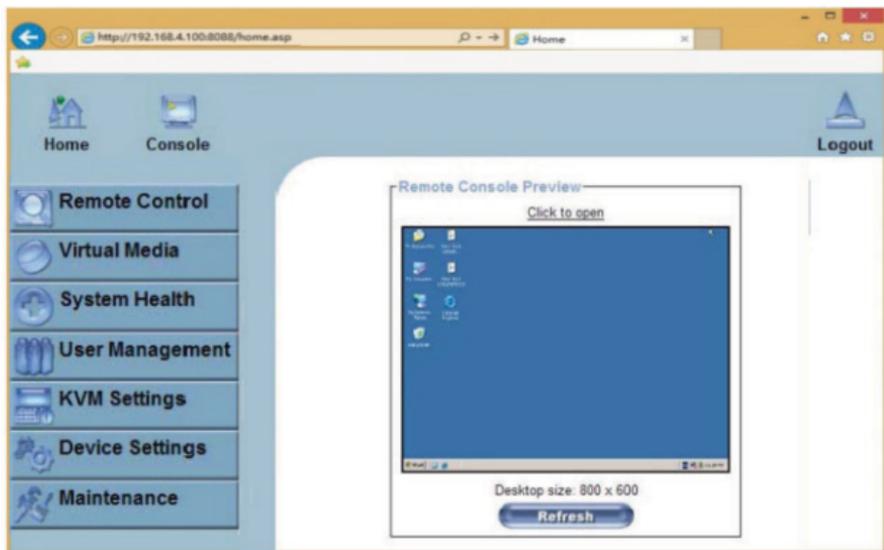
Router port mapping as shown below:



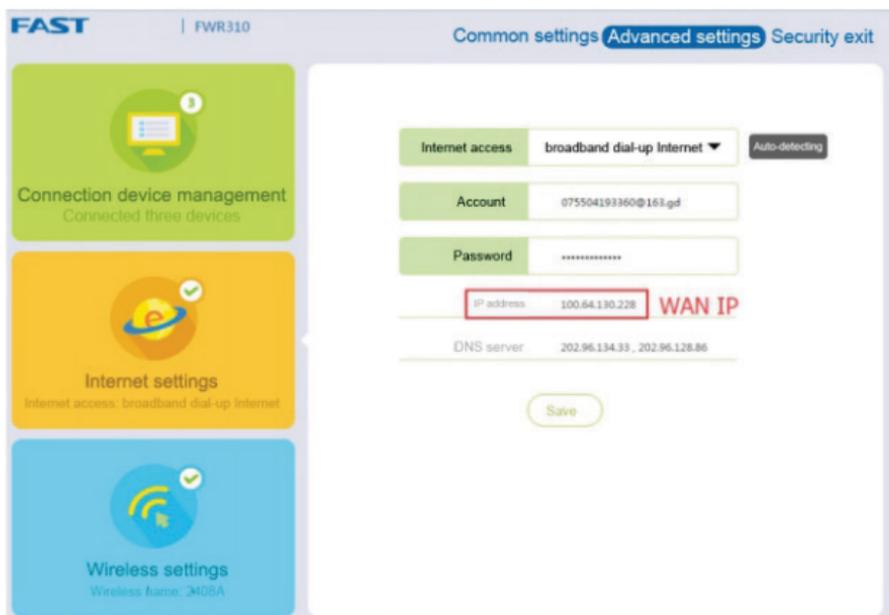
LAN users through the intranet IP login interface:



The LAN user login is as follows:



Check the WAN IP address through the router:



External network users log in through the WAN IP interface:



WAN IP login success interface:

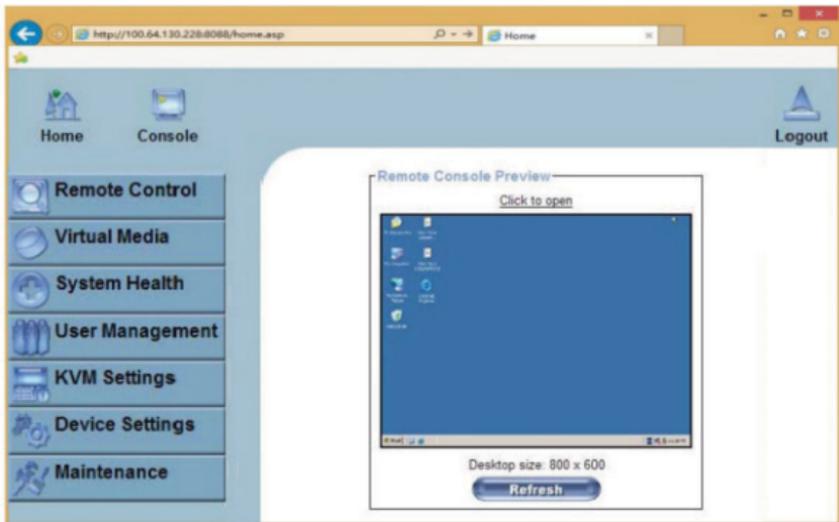
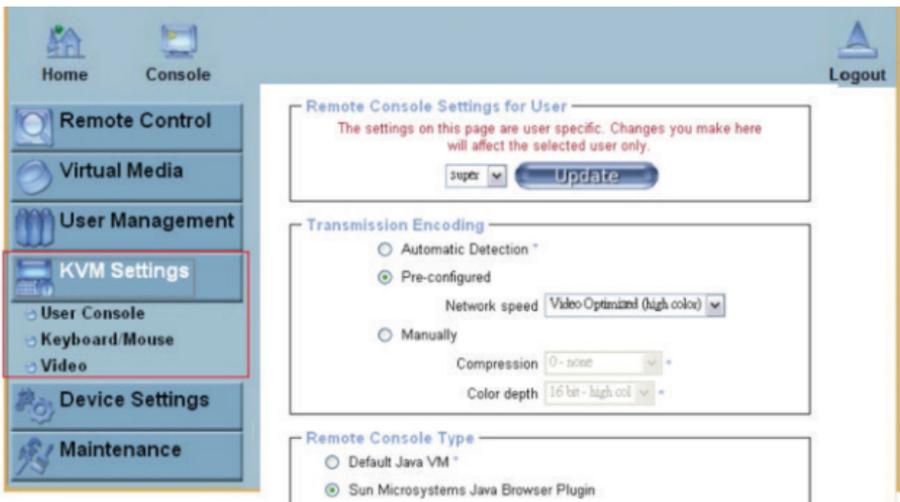


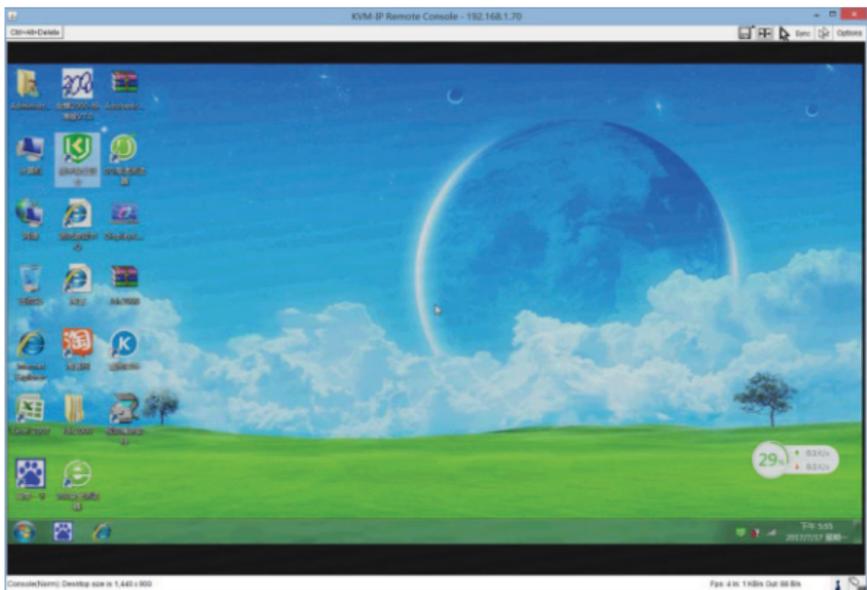
Image settings are set in the transmission code.



## Open And Use The Remote Console

- 1) To open the KVM Console or click on the menu on the left icon console or remote control> KVM console or click the “click to open” on the right of the console diagram.
- 2) Starting remote console will open an additional window. It shows the screen content of your host system. The Remote Console will behave exactly as if you were doing it in locally host computer screen.
- 3) The Remote console upper window contains a control bar.
- 4) To open the options menu, click the button "options"

Image settings, set in the transmission editor



## Use care

In order to extend the life of the machine, and reduce unnecessary waste of resources, the proper use of KVM do the following:

- Press the power switch on the LCD screen, the LCD screen power indicator turns from green to red, indicating that the LCD screen is off.
- Close the LCD panel and lock the front panel.
- Push the control platform into the cabinet, and when fully pushed in, lock the side of the control panel lock.

## Packaging contents

### LCD KVM control platform Packaging contents

Serial number	Product Name, Specification, Model No.	16 Port
1	LCD KVM switch	1pcs
2	USB cable, KVM cable	4pcs
3	Power adapter(IN AC140~220V OUT DC 12V)	1pcs
4	Hanging ears	2pcs
5	User manual	1pcs
6	Screw package	1pcs