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kinankvm KVM-1508XX Rackmount LCD Console User Manual

kinankvm KVM-1508XX Rackmount LCD Console

Specifications

- Model: Rackmount LCD Console (8 Port /16 Port)
- Manufacturer: Shenzhen Kinan Technology Co., Ltd
- Printing Date: 2024/01
- Version: V3.3

Product Information

Overview

- **Product Description:** The KVM console integrates multiple port KVM switches in a 1U height console. It can control multiple computers with a set of devices including monitor, keyboard, and mouse, thus saving cost and space by eliminating the need for separate equipment for each computer.
- **Installation:** Easy and fast installation by connecting corresponding cables to the right ports of the KVM and its module without requiring software configuration.
- **Capacity:** The KVM console can control up to 8 or 16 computers, supporting multiple hardware platforms and operating systems.

Product Features

- LED TFT monitor with high brightness and resolution
- 1U height, suitable for standard 19-inch rack mount with a metal structure

- Ultra-slim 99 keys keyboard with a small numeric keyboard
- High resolution and flexibility with touchpad, two function buttons, and scroll wheel

Switch Functions

- A single USB console controls up to 8 or 16 computers
- Supports daisy chaining up to 31 additional Combo-KVM units, enabling control of up to 512 computers

Product Usage Instructions

Hardware Installation

- **Rack Mounting:** Follow the provided instructions for rack mounting the console into a standard 19-inch rack.
- **Installation Instruction:** Connect the necessary cables to the appropriate ports on the KVM console and its module. No software configuration is required for installation.

Opening the Console
To open the console, follow the steps outlined in the user manual provided with the product.

LED Instructions
Refer to the LED instructions section in the user manual for detailed information on interpreting LED indicators.

OSD Operation
The On-Screen Display (OSD) allows you to navigate and control the KVM console. Refer to the OSD Operation section in the user manual for instructions on using the OSD.

USB Keyboard Emulation
The KVM console supports USB keyboard emulation. For specific instructions on USB keyboard emulation, refer to the user manual.

Appendix
For additional information and reference, consult the Appendix section in the user manual.

FAQ

- **Q: How many computers can the KVM console control?**

  A: The KVM console can control up to 8 or 16 computers depending on the model.
- **Q: Is software configuration required for installation?**

  A: No, software configuration is not required for installing and using the KVM console.

Rackmount LCD Console
(8 Port /16 Port)
User Manual

Overview

Product Description
The KVM console integrates multiple port KVM switches in a 1U height console. It can control multiple computers with a set of devices including monitor, keyboard and mouse, thus saves much cost and space to separately equip keyboard, mouse and monitor for every computer.
It is easy and fast to install the KVM console, you just need to connect corresponding cables to the right ports of KVM and its module without software configuration.
The KVM console can control up to 8 or 16 computers, supports multiple hardware platform and multiple operating system.

Product Features

- 17″&19″ LED TFT monitor, high brightness, high resolution;
- 1U height, suitable height for standard 19" rack mount, metal structure;
- Ultra slim 99 keys keyboard with small numeric keyboard;
- High resolution and high flexibility with touchpad; with two function buttons and scroll wheel.

Switch Functions

- A single USB console controls up to 8 or 16 computers
- By daisy chaining up to 31 additional Combo-KVM, as many as 512 computers can be controlled from the single KVM console which supports 8 or 16 ports KVM seamless mixed cascade connection
- Supports wireless keyboard and mouse from different suppliers
- Two level password security–only authorized users view and control computers; up to four users and an administrator with a separate profile for each
- Users can set up different hot keys(Scroll Lock / Caps Lock / F12 / Ctrl), auto scanning time, port display time, log out time, buzzer on/off and mouse on/off according to their different needs
- Broadcast mode–operations simultaneously performed on all selected computers
- Multiplatform support–Windows, Linux, Mac and Sun
- Supports multimedia USB keyboard (PC, Mac and Sun)
- USB keyboard emulation–computer boot even the console focus is else where
- Convenient computer switching via front panel pushbuttons, hotkeys, OSD menu
- Automatically shows the computer position on the front panel LED screen under daisy chaining connection without DIP set by hand
- Auto scan feature for monitoring user-selected computers
- Hot pluggable –add or remove computers without having to power down the switch
- Quickly select your computer by naming the server or inputting SN number of the server

Front view

1. LED Module
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

Structure and Size (17″)

Back view

1. Power input (AC or DC)

2. Power switch

3. Ground connection screw

4. Console

5. Cascade port

6. PC port: 8/16 port (integrating VGA/keyboard/mouse input port)

Structure and Size (19″)

Back view

1. Power input (AC or DC)

2. Power switch

3. Ground connection screw

4. Console

5. Cascade port

6. PC port: 8/16 port (integrating VGA/keyboard/mouse input port)

Models

Product Series	Model	Port		Interface		Voltage Range
				External Console	PC	
17"	XL1708	08	256	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	100V—240Vac
	XL5708	08	256	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	-36V— -72Vdc
	XL1716	16	512	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	100V—240Vac
	XL5716	16	512	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	-36V— -72Vdc
19"	XL1908	08	256	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	100V—240Vac
	XL5908	08	256	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	-36V— -72Vdc
	XL1916	16	512	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	100V—240Vac
	XL5916	16	512	V:HDB-15 K:USB PS/2 M: USB PS/2	USB	-36V— -72Vdc

Hardware Installation

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 distance, the rear brackets need to be customized accordingly With one person hold the switch in place and 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)

Installation instruction

1. Make sure the rack mounting KVM switch has been connected to the ground (① in the diagram)
2. Connect KVM switch with the computer according to ② in the diagram
3. Connect power cable to KVM port as shown in③ in the diagram
4. Turn on the power, the KVM start to work after power supply (④ in the diagram)

Note

1. Connect monitor, USB or PS/2 keyboard and mouse to Console port to connect another console. ⑤ in the diagram *explain: Not supports OSD on external dispaly, to switch via hotkey Ctrl , see details on page 19 about OSD Hotkey function instructions
2. Daisy chaining multiple KVM switches according to ⑥ in the diagram. Plug the yellow port of daisy chaining cable in the yellow "Daisy-Chain in "DB 15 port on KVM console, then plug the other blue port in the blue "Console "DB 15 port on KVM switch, etc.

To ensure signal integrity and simplify cable layout, we strongly recommend you using high quality cables with different length.

Opening the console

Release the release catch

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

- Pull the LED panel all the way out until it clicks into place.
- Rotate the LED module all the way back to expose the LED screen, the LED module can be rotated up to108°.
- Turn on power switch KVM will be issued two "beep" sound, The Port LEDs light flashes 4 times , the LED displays the prompted to enter the user's password.
- LED panel is powered on when the power LED is green.
- Power on computer or server after power on KVM and you will see green light at each port.
- The factory default password is blank, it will be OK after double click "Enter".
  NOTE: The username and password are no more than 16 characters, Press and hold the Shift key to type lowercase letters.
  Please contact the manufacturer for support if the KVM is locked.

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.

LED Instructions

No.	Components	Function
1	1-8 or 1-16	1) Switching freely from port 1 to port 8 /16 2)Press 1 and 2 at the same time resets the KVM. 3)Press 7 and 8 at the same time switches to next stage level.
2	Port Selection Buttons& LEDs	Indicator LEDs are built into the switches, the online LED light is on the left and the selected LED light is on the right. 1. An online LED light(green) indicates that the KVM has connected to its corresponding computer and power on. 2. A selected LED light(orange) indicates that the computer attached to its corresponding port is up and running.
3	Station ID	Display the current port

Table 3-1.1: LED instructions

LED OSD Configuration

Buttons	Functions
MENU SELECT	Press this button invokes the menu function and brings up the main menu.
EXIT/AUTO	Press this button exits the current menu and return to the previous menu or press this button exits the LED OSD. Press AUTO for automatic configuration.
SL-/SL+	Press this button moves your menu to make corresponding adjustment.
LED state	Green: running Red: power off or access nonstandard VESA signal Flash green energy saving mode or no signal

Table 3-1.2: LED OSD configuration instruction
Press AUTO if the screen migrates after power on or under other circumstances, then the screen auto configure to its best display state.(It might can't 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 back to normal.
We suggest our customers to set up the display mode at 1280×1024, refresh rate at 60Hz.

OSD Operation

Double click the right buttons of the mouse or double click hotkey Scroll Lock to invoke below OSD main menu. You can customize the OSD hotkeys, find more details in OSD function instructions.

Headings	Explanation
SN	level number-port number
	It shows the computer port is under monitoring.
$	The computers are power on and are online
QV	"#": quick view the port "BC": Broadcast port
LK	" @ "shows that the port is only available for viewing
Name	Port name, the maximum is 12 bytes

Table 4-1.1: OSD interface

To access the OSD menu through keyboard:

1. In the submenus that appear, moving the highlight bar to your selected port and then press Enter.
2. Press Page Up or Page Down quickly moves to next BANK
3. Press any key from 0-9 to enter any port of current station, type BANK+PORT to enter other stations.

To access the OSD menu through keyboard:

OSD Functions

Menus	Keys	Submenu/explanation
ADM	F1	Set User login: account and password Set accessible: Set access permissions BRC Mode: monitor multiple computers at the same time Load Default: reset the menu to the original factory default settings
Scan	F2	All: Lists all the ports on the installation Power On: lists only powered on ports that have attached computers. Quick View: Lists only the ports that have been selected as Quick View ports
Set	F3	Auto Scan: set scanning time period Port ID: set how long a port displays on the monitor OSD Hotkey: set OSD hotkeys Lout Time off: to set the time out value
Tool	F4	Reset KM: press Enter resets keyboard and touchpad Beeper On : press Enter switch Bee sounds Mouse Hot On : press Enter to shut down touchpad operating on OSD. Restore Values: press Enter restore the current user default value. About KVM: press Enter shows the KVM version
Edit	F6	Edits port names
QV	F7	Start or close Quick View
Lout	F8	Log out/blank the console screen
Exit	Esc	Press this key exits OSD menu
	Scroll Lock	Press this key exits OSD menu
	Num Lock	Press this key exits OSD menu

F1-ADM

Menu overview

Operating instructions

1. Press F1 or ← → enters the F1 submenus.
2. Press ↑ ↓ moves the highlight bar to select the submenu.
3. Press Enter selects and exits ADM menu.
4. Press Esc cancels the operation and exits ADM menu.

Menu explanation

1. Set User Login—Press Enter and select Set User Login, a screen as below Diagram 4-1.1 appears:
   One administrator and four users account can be set (The username and password are no more than 16
   characters, Press and hold the Shift key to type lowercase letters.)
   Note You can set up an account and password according to diagram 4-1.2, then a " User setup ok" pops up
   showing you have done your set, and "Password Not Match" pops up, you need to type in your password again
   as you did in your first type.
2. Set accessible—press Enter and select Set Access Permission, then below menu appears: (diagram 4-1.3):

Menu	Explanation
FULL	Full access function to the station and can do any operation to the ports
VIEW	View only function, you can only view the port but you can't operate it if set this function.
NULL	If you set this function, the port will be not displayed on the user's OSD menu

Note The administrator always has full access to all the ports.
Eg.:

   1. If you want to set access permission of [User1], press Space to choose the permission options you need
      to set.
   2. [User1] log in OSD menu, as shown in diagram 4-1.5.
3. BRC Mode – Press Enter to enter the BRC mode. Enter the main menu, press F7 to add or remove a port that
   need broadcast function. When BRC mode is effect, a speaker symbol appears in QV column. (see below
   diagrams).
   While BRC mode is in effect, we can operate multiple computer ports simultaneously, but the mouse is not
   function normally.

   1. Open BRC mode
      F1 ->BRC Mode OFF->press Enter -> BRC Mode ON (see diagram 4-1.6)
   2. Open the port that need broadcast function
      Press ↑ ↓ key—>select the port that need broadcast function —>press F7 a "BC" symbol appears in
      the QV column which shows the port has entered broadcast mode.

3. Close the broadcasting port

   Press ↑ ↓ key—>select the port—>press F7 —>exit BRC mode and the "BC" symbol disappears

4. Exit BRC mode

   Invoke OSD main menu—> F1 ->BRC Mode ON ->press Enter —> BRC Mode OFF, the KVM exits BRC mode(diagram 4-1.8)

4. Load Default— press Enter and select Load Default, all the set values are restore to original factory default settings.

F2-Scan

Menu overview

Operating instructions

1. Press F2 or ← → enters the F2 submenus.
2. Press ↑ ↓ moves the highlight bar to select the submenu.
3. Press Enter selects and exits Scan menu.
4. Press Esc cancels the operation and exits SCAN menu.

Menu explanation

Submenu	Explanation
All	Use this function to scan all ports according to the set scanning interval.
Power On	Use this function to scan all ports with "$" according to the set scanning interval.
Quick View	Use this function to scan all ports with "#" quick view symbols according to the set scanning interval.

F3-Set

Menu overview

Operating instructions

1. Press F3 or ← → enters the F3 submenus.
2. Press ↑ ↓ moves the highlight bar to select the submenu.
3. Press Enter selects and exits Set menu.
4. Press Esc cancels the operation and exits Set menu.

Menu explanation

Submenu	Default value
Auto Scan	5S effective range 5-99
Port ID	0S not display the port ID 1-98S: display the seconds, maximum 98s 99S: permanent display
OSD Hotkey	Scroll Lock + Scroll Lock Caps Lock + Caps Lock F12 + F12 Ctrl + Ctrl + KVM Hotkey
Lout Time off	0: close the screen saver setting 01-99M: set the screen saver timeout Note: It is automatically log out if the current operator is no longer operate for a while, then the KVM will be locked and you need to enter user name and password to operate again

OSD Hotkey Operation

Operating instruction

1. Press F3 and move the highlight bar with ↓ to select "OSD Hotkey" submenu . Press Enter and below screen appears:
2. KVM default hotkey: Scroll Lock
3. Select the" Ctrl Ctrl + KVM Hotkey " and press Enter , and then the Ctrl hotkey is availablein this hotkey mode, themouse hotkey can't enter the OSD menu

Invoke hotkey double click L_Ctrl + the corresponding function key

Function	Operating	Function description
Switching port	+ 1~8	Skip ports from 1~8 E.g.: Double click L_Ctrl plus 2 to skip to the second port of the current station.
	+ F1~ F8	Skip ports from 9-16
	+ ↑/↓	Skip to previous/next port
Auto scanning	+ S	1. Auto Scan automatically scan ports that attached PC or server. Users can set the scan duration in OSD menu and press any key to exit scanning mode. 2. Move the mouse to extend scan interval.
Invoke OSD main menu	+ "space key"	This allows you to invoke OSD main menu see OSD menu operation

F4-Tool

Menu overview

Operating instructions

1. Press F4 or ← → enters the F4 submenus.
2. Press ↑ ↓ moves the highlight bar to select the submenu.
3. Press Enter selects and exits Tool menu.
4. Press Esc cancels the operation and exits Tool menu.

Menu explanation

Submenu	Instruction
Reset KM	Initialize the keyboard and mouse that connected to KVM when they are break down.
Beeper On	The beeper can be turned on or off with this function.
Mouse Hot On	To open and close the mouse with this function. We can't operate the OSD when it is Off .
Restore Values	Restore to original factory default values.
About KVM	It shows the KVM version information.

F6-Edit port names

- Select the port with ↑ ↓ key;

- Press F6 and key in the new name or modify the old one, then press Enter to save the name and exit editing.
- Press Esc to cancel and exit the editing.

Note:
The NAME characters include:

All alpha characters A-Z
Press and hold the Shift key to type lower case letters
All numeric characters 0-9 Default value: SYSTEM

F7-Set quick view port(QV)

- Select ports with ↑ ↓ keys
- Press F7 to include current port as Quick View, then an arrowhead appears in the QV column to indicate so.

Note
Press F7   to cancel the QV symbol is the current port has already have a QV arrowhead symbol in its QV column; if you want to cancel all the QV function, press Restore Values under F4: Tool. (The port name restores to default setting at the same time.)

F8-LOUT

- Press F8 exits the OSD main menu and fully exits current port, then the log in window appears:
- Users must log in all over again to regain access to the OSD.

Setting OSD default values

Settings	Default values
OSD hotkey	Scroll Lock Scroll Lock
Original user name	Enter
Original password	Enter
Port display duration	0 seconds
Port display mode	Bank No.+Port No.+port name
Port name	SYSTEM
Scan duration	5 seconds
Scan mode	All
Auto log out	Esc

Operating system

Support operating system

Operating system		Version
Windows		2000 or higher
Linux	RedHat	6.0 or higher
	SuSE	8.2 or higher
	Mandriva(Mandrake)	9.0 or higher
UNIX	AIX	4.3 or higher
	FreeBSD	3.51 or higher
	Sun	Solais8 or higher
Nove11	Netware	5.0 or higher
Mac		8.6 or higher
DOS		6.2 or higher

USB Keyboard Emulation

Mac keyboard
The PC compatible (101/104 keys) keyboard can emulate the functions of the Mac keyboard. The emulation mappings are listed in the below table:

Sun keyboard
The PC compatible (101/104 keys) keyboard can emulate the functions of the Sun keyboard when the control key [L_Win] is used in conjunction with other keys. The corresponding functions are shown in the below table:

PC keyboard	Sun keyboard
L_Win&L_Alt	Stop
L_Win&F4	Again
L_Win&L_Ctrl	Props
L_Win&F5	Undo
L_Win&F1	Front
L_Win&F6	Copy
L_Win&F2	Open
L_Win&F7	Paste
L_Win&F3	Find
L_Win&F8	Cut
L_Win&"1"	V_DN
L_Win&"2"	Mute
L_Win&"3"	V_UP
L_Win&F12	Power
L_Win&F11	Help
L_Win&L_Shift	Compose
	◆

Appendix

Specifications (17″)

Function		XL1708	XL1716
Computer connections	Direct	8	16
	Max	256	512
Port emulation	Keyboard, mouse	USB	
LED monitor	LED model	SXGA TFT	
	View area	17 "	
	Optimum resolution	1280×1024@60Hz	
	Display color	16.7 M	
	Brightness	250cd/m² T y p	
	Contrast ratio	1000 : 1 T y p	
	Pixel pitch(mm)	0.264(H) × 0.264(W)	
Mouse	X/Y resolution	>1000 points /inch, (40 points/mm)	
	Roll wheel	Supports scroll wheel function	
Keyboard		99 keys (82 keys main keyboard +17 independent small numeric keyboard)	
Port selection		Front panel pushbuttons, hotkeys, OSD menu	
Input power		100V- 240Vac, 50-60Hz, <1.5A	
Power consumption		17W	19W
Mounting distance		600~850mm (L=420mm) Mounting rails can be customized for other mounting distance.	
Operating temperature		0—50 ℃	
Store temperature		-20—60 ℃	
Humidity		0—80% RH, non-condensing	
Net weight		12.8 kg	13 kg
Product dimension (W × D × H)		448mm×581mm×42.5mm	
Package dimension (W × D × H)		765mm×615mm×185mm	
Optional power input		-36V— -72V DC	

Specifications (19″)

Function		XL1908	XL1916
Computer connections	Direct	8	16
	Max	256	512
Port emulation	Keyboard, mouse	USB	
LED monitor	LED model	SXGA TFT	
	View area	19″	
	Optimum resolution	1280×1024@60Hz	
	Display color	16.7 M	
	Brightness	250cd/m² T y p	
	Contrast ratio	1000 : 1 T y p	
	Pixel pitch(mm)	0.2928(H) × 0.2928(W)	
Mouse	X/Y resolution	>1000 points /inch, (40 points/mm)	
	Roll wheel	Supports scroll wheel function	
Keyboard		99 keys (82 keys main keyboard +17 independent small numeric keyboard)	
Port selection		Front panel pushbuttons, hotkeys, OSD menu	
Input power		100V- 240Vac, 50-60Hz, <1.5A	
Power consumption		21W	23W
Mounting distance		716~825mm (L=262mm) Mounting rails can be customized for other mounting distance.	
Operating temperature		0—50 ℃	
Store temperature		-20—60 ℃	
Humidity		0—80% RH, non-condensing	
Net weight		13.3kg	13.5kg
Product dimension (W × D × H)		448mm×605mm×42.5mm	
Package dimension (W × D × H)		765mm×615mm×185mm	
Optional power input		-36V— -72V DC	

FAQ

1. The KVM console do not work when I connect and use the console for the first time.

   Solutions:

Please re-connect the KVM console according to below steps:

1. Disconnect all the signal and power cables connected to KVM.
2. Then power on KVM and you hear the boot indicating sound from the beeper, a screen automatically pops up for you to enter the user name and password.
3. Type in the correct user name and password, the original password is clicking Enter twice, then the OSD main menu pop up on the screen.
4. Check the KVM console and make sure it can normally switch ports.
5. Connect one server (PC) to one of the KVM ports with signal cable and check port switching function, check the keyboard and mouse, if they are not working, try to re-start the server (PC).
6. After successfully finishing all above steps, gradually add server (PC) to this console until meet your need.

2. There is no pop-up window to type in user name and password or the pop-up window is not normally displayed.

   Solutions:
   1. Check the AC/DC output.
   2. Make sure you have heard the indicating sound and the keyboard LED is on after starting up the computer.
   3. Check the LED power and make sure the LED signal cable has connected to the KVM console.

3. I can't log in the KVM system after starting computer.

   Solutions:
   1. Make sure the KVM keyboard is working, the user name and password is correct. The default value is blank, you can log in after press Enter.
   2. If you still can't log in the system, try to connect an external USB or PS/2 keyboard. (The original default value is blank; you can log in after double clicking Enter)

4. I can't switch from one port to another after logging in the KVM system.

   Solutions:
   1. Invoke the OSD main menu and check the user name on the top left, make sure the user has got the access permission from the administrator.
   2. Please contact the distributor or the KVM manufacturer.

5. Bad display quality of PC screen.

   Solutions:
   1. Check the signal cables, make sure they are connected.
   2. Reset the monitor's display settings.

6. When I switch to one port, the keyboard and mouse do not work.

   Solutions:
   1. Make sure you have exited the OSD menu.
   2. Invoke the OSD main menu and check the user name on the top left, make sure the user has got the access permission from the administrator.
   3. Pull out the USB port of the server (PC) then plug in.

7. I can't invoke the OSD main menu.

   Solutions:
   1. Check the keyboard to make sure it is working.
   2. Double click Scroll_Lock .
   3. Double click F12

4. Double click Caps Lock

5. Double click Ctrl + Space

8. The OSD code is in disorder or abnormal displayed when daisy chaining.

Solution:

Invoke the OSD menu after daisy chaining, press F1 and choose Load default ,then press enter to refresh OSD ROM.

Documents / Resources

Rackmount LCD Console (8 Port /16 Port) User Manual	**kinankvm KVM-1508XX Rackmount LCD Console** [pdf] User Manual KVM-1508XX, KVM-1516XX, KVM-1708XX, KVM-1716XX, KVM-1508XX Rackmount LCD Console, KVM-1508XX, Rackmount LCD Console, LCD Console, Console

References

- **Home - Kinan**
- **User Manual**