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### 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 device 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**

- 18.5 " FHD 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.

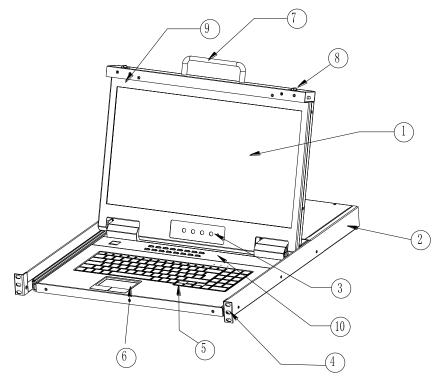
## **Switch Functions**

- A single USB console controls up to 8 or 16 computers
- By daisy chaining up to 31additional 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
- Dual interface supports computers with PS/2 and USB keyboard and mouse
- Auto PS/2 and USB interface detection
- 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)
- Superior video quality up to 1920×1080; DDC2B
- USB or PS/2 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

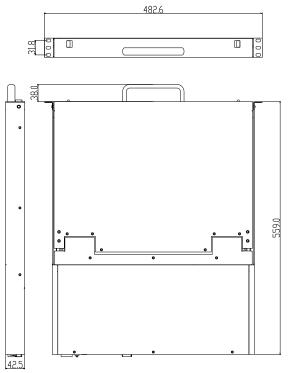
## Front view



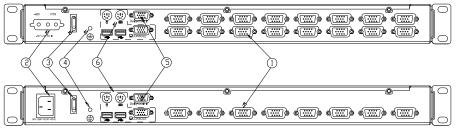
- 1-1.1 front view
- 1. LED Module
- 2. Rear Bracket Slot
- 3. LED OSD Controls
- 4. Front Bracket
- 5. Keyboard

- 6. Touchpad
- 7. Handle
- 8. Release Catch
- 9. Display panel
- 10.Switch LED

# Structure and Size (18.5")







1-1.3 08/16 Port back view

- 1. PC port: 8/16 port(integrating VGA/keyboard/mouse input port)
- 2. Power input(AC or DC)
- 3. Power switch
- 4. Ground connection screw
- 5. Cascade port
- 6. Console

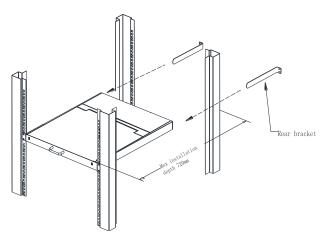
## Hardware Installation

## **Rack Mounting**

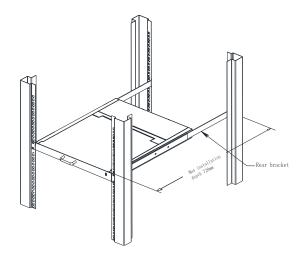
A standard rack mounting kit is provided to mount the switch in a depth of 620-720mm in a standard 19" rack.

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)



1-2.1 rack mounting (1)



1-2.2 rack mounting (2)

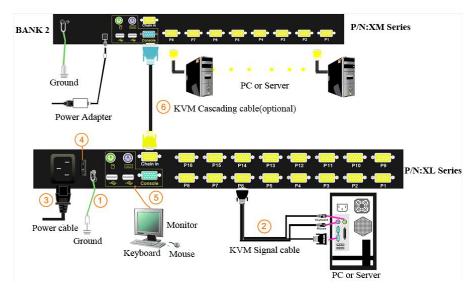
# Cables

No.	Function	Model	Cable port		
	KVM cable – PS/2	CH-1800P ( 1.8M) CH-3000P(3M) CH5000P( 5M)	PC or Server port: Keyboard: 6pin MIN-DIN male Mouse: 6pin MIN-DIN male Display: 15pin HDB female KVM port 15pin HDB male		
1	KVM cable – USB	CH-1802U ( 1.8M) CH-3001U (3M) CH-5001U ( 5M)	PC or Server port: USB port: USB A TYPE(female Display port: 15pin HDB male KVM port 15pin HDB male		
	KVM cable – COMBO	CH-1801M(1.8M) Note: USB port can't be connected to the	PC or Server port: USB: USB A TYPE(female) Display: 15pin HDB male Keyboard: 6pin MIN-DIN male Mouse: 6pin MIN-DIN male		
_		PC with PS/2 port at the same time	15pin HDB male		
2	Cascade cable	CH-3000C ( 3M)	15pin HDB male		

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

# Installation instruction

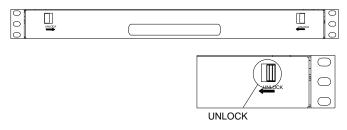
- Make sure the rack mounting KVM switch has been connected to the ground (1 in the diagram)
- 2) Connect KVM switch with the computer according to 2 in the diagram
- 3) Connect power cable to KVM port as shown in 3 in the diagram
- 4) Turn on the power, the KVM start to work after power supply(4 in 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 21 about OSD Hotkey function instructions
    - 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 series console, then plug the other blue port in the blue "Console" DB 15 port on KVM series switch, etc.

## **Opening the console**

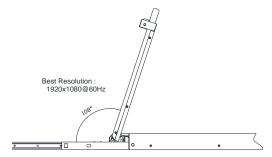
Release the release catch;





#### \*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°.



- 2-1.4 rotate angle of the console
- 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.

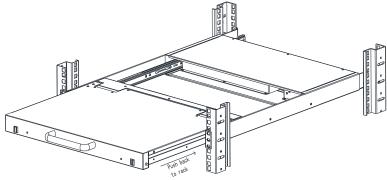


2-1.5 password window

- 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".

# 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 lock up.



2-1.6 close the console

# **LED Instructions**



3-1.1 front view

No.	Components	Function
1	1-8 or 1-16	<ol> <li>Switching freely from port 1 to port 8 /16</li> <li>Press [1] and [2] at the same time resets the KVM.</li> <li>Press [7] and [8] at the same time switches to next stage level.</li> </ol>
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

## 8 Port /16 Port

# LED OSD Configuration



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

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 non-standard 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 1366x768, 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 (Page 13).

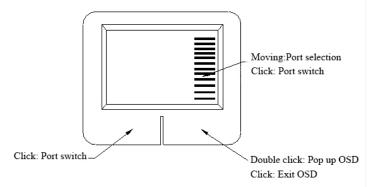
		an F3: Set F4: Tool	Headings	Explanation
		LK Name	SN	lovel number pert number
	⇒ 01-01	SYSTEM	SIN	level number-port number
	01-02 01-03 01-04	SYSTEM SYSTEM SYSTEM		It shows the computer port is under monitoring.
	01-05 01-06	SYSTEM SYSTEM	\$	The computers are power on and are online
	01-07 01-08	SYSTEM	QV	"#": quick view the port "BC": Broadcast port
GoTo SN BANKSUM: 01 F6: Edit F7: QV F8: Lout Page UP/DN: Select Banks		LK	" @ "shows that the port is only available for viewing	
	Page OP/DN. Se	lot banka	Name	Port name, the maximum is 12 bytes

Table 1.4: 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:



\*Note: Operate via keyboard after invoke the OSD menu via the touchpad.

User Manual

## **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	<ul> <li>All: Lists all the ports on the installation</li> <li>Power On: lists only powered on ports that have attached computers.</li> <li>Quick View: Lists only the ports that have been selected as Quick View ports</li> </ul>			
Set	F3	uto Scan: set scanning time period ort ID: set how long a port displays on the monitor SD Hotkey: set OSD hotkeys out 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			
	Esc	Press this key exits OSD menu			
Exit	Scroll Lock	Press this key exits OSD menu			
	Num Lock	Press this key exits OSD menu			

Table 1.5

#### F1-ADM

•	Menu over	view
		OR 8 Ports
		can F3: Set F4: Tool
	Set user Login	LK Name
	Set accessible	SYSTEM
5	BRC mode OFF	
	Load Default	SYSTEM
	01-03	SYSTEM
	01-04	SYSTEM
	01-05	SYSTEM
	01-06	SYSTEM
	01-07	SYSTEM
	01-08	SYSTEM 🦊
	GoTo SN	BANKSUM: 01
	Page UP/ DN: S	

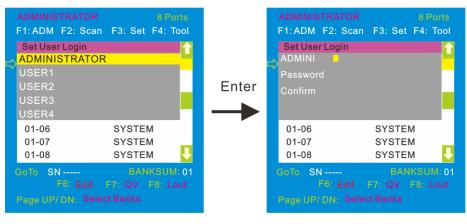
**Operating instructions** 

- 1) Press [F1] or  $[\leftarrow]$  [ $\rightarrow$ ] enters the F1 submenus.
- 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 account and the password are no more than 16 characters)



#### 4-1.1

4-1.2

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.

#### 8 Port /16 Port

2. Set accessible—press 【Enter】 and select Set Access Permission, then below menu appears: (diagram 4-1.3):

ADMINISTRATOR8 PortsF1: ADMF2: ScanF3: SetF4: Tool							
	SN	User1	User2	User3	User4		
\$	01-01	[ <mark>F</mark> ]	[F]	[F]	[F]		
	01-02	[F]	[F]	[F]	[F]		
	01-03	[F]	[F]	[F]	[F]		
	01-04	[F]	[F]	[F]	[F]		
	01-05	[F]	[F]	[F]	[F]		
	01-06	[F]	[F]	[F]	[F]		
	01-07	[F]	[F]	[F]	[F]		
	01-08	[F]	[F]	[F]	[F]		
I	F: FUL	L V: VI	EW Sp	ace: NL	JLL		

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.
-------	--

ADMINISTRATOR F1: ADM F2: Scan F3: Set	8 Ports F4: Tool		USER1 F2:	Scan F3	8   3: Set F4: 1	Ports Fool
SN User1 User2 User3			SN \$	QV LK	Name	<b>Î</b>
➡ 01-01 [V] [F] [F]			01-01	@	SYSTEM	
01-02 [ ] [F] [F]	LFJ		01-04		SYSTEM	
01-03 [ ] [F] [F]	[F]		01-05	@	SYSTEM	
01-04 [F] [F] [F]	[F]		01-06		SYSTEM	
01-05 [ V ] [ F ] [ F ]	[F]		01-07	@	SYSTEM	
01-06 [F] [F] [F]	[F]					
01-07 [V] [F] [F]	[F]					п
01-08 [ ] [F] [F]	[F]					
		(	GoTo SN		BANKSU	IM: 01
F: FULL V: VIEW Space: N	ULL		F6:			
			Page UP/ DI			
				445		

#### 4-1.4

4-1.5

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.

		can F3: Set F4: Tool		F1: ADM	F2: Sca	an F3: Set	F4: Tool
	Set user Login	LK Name		SN	\$ QV	LK Name	
~	Set accessible	SYSTEMS	_~	01-01	BC	SYSTE	
~	BRC mode ON Load Default	SYSTEMS		01-02	DC	SYSTE	
	01-03	SYSTEMS		01-02	BC	SYSTE	
	01-03	SYSTEMS		01-03	BC	SYSTE	
					DO		
	01-05	SYSTEMS		01-05	BC	SYSTE	
	01-06	SYSTEMS		01-06		SYSTE	
	01-07	SYSTEMS		01-07		SYSTE	
	01-08	SYSTEMS		01-08		SYSTE	И 🔽
	GoTo SN	BANKSUM: 01	(	GoTo SI	N		KSUM: 01
							F8: Lout
	Page UP/ DN: S		Page UP.	/DN: Se	elect Banks		

4-1.6

4-1.7

[F1] ->BRC Mode OFF->press [Enter] -> BRC Mode ON (see diagram 4-1.6)

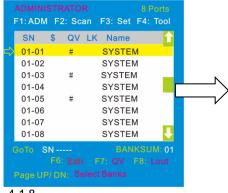
2) Open the port that need broadcast function

Press  $\uparrow II \downarrow Jkey$ —>select the port that need broadcast function  $\rightarrow$  press [F7]  $\rightarrow$ 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

1) Open BRC mode

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



Press [F1]->BRC Mode OFF ->press [Enter], enter the main menu, all "#" symbols turn into "BC" symbol(diagram 4-1.7)



4. Load Default--- press 【Enter】 and select Load Default, all the set values are restored to original factory default settings.

## F2-Scan

#### Menu overview

		STRATOR		8 Ports				
	F1: ADM	F2: Scan	F3: Set	F4: Tool				
	SN	ALL Power On	Name	<b>1</b>				
	01-01	Quick View	, <mark>SYSTE</mark>	M				
	01-02		SYSTE	M				
	01-03		SYSTE	м				
	01-04		SYSTE	м				
	01-05		SYSTE	M				
	01-06		SYSTE	м				
	01-07		SYSTE	м				
	01-08		SYSTE	м				
(	GoTo SI	N	BAN	IKSUM: 01				
	Page UP/ DN: Select Banks							

Operating instructions

- 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

ADMI	NISTE	RATOR	ł		8 F	Ports	
F1: AD	M F	2: Sca			F4:	Tool	
SN	\$	QV	Auto S			Î	
01-0	1		OSDF	lotkey			
01-0	2		Lout T	ime O	FF		
01-0	3		Sì	<b>STE</b>	М		
01-0	4		S١	/STE	М		
01-0	5		Sì	/STE	Μ		
01-0	6		S١	<b>STE</b>	М		
01-0	7		Sì	<b>STE</b>	М		
01-0	8		Sì	<b>STE</b>	М		
БоТо	SN			BAN	IKSU	M: 01	
Page UP/ DN: Select Banks							

# Menu explanation

**Operating instructions** 

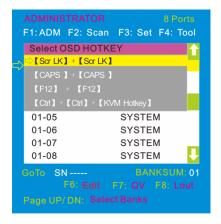
- 1) Press [F3] or  $\leftarrow$ ]  $\rightarrow$ ] enters the F3 submenus.
- 2) Press 【↑】【↓】 moves the highlight bar to select the submenu.
- 3) Press [Enter] selects and exits Set menu.
- 4) Press [Esc] cancels the operation and exits Set menu.

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: Enter Name and Password UserName: Password:					

# **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 hotkev: [Scroll Lock]



2.Select the"[Ctrl][Ctrl]+[KVM Hotkey] " and press[Enter], and then the [Ctrl] hotkey is available in 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		
	+ 1~8	Skip ports from 1~8, Eg.: Double click [L_Ctrl] plus 2 to skip to the second port of the current station.		
Switching port	+ F1~ F8	Skip ports from 9-16		
	+ ↑/↓	Skip to previous/next port		
Auto scanning	+ S	<ol> <li>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.</li> <li>Move the mouse to extend scan interval.</li> </ol>		
Invoke	+ "space	This allows you to invoke OSD main		
OSD main menu	key"	menu (see OSD menu operation)		

#### F4-Tool

Menu overview

		IISTR	RATOF		8 P	orts		
ľ	=1: ADI	M F2	2: Sca		F3: Se		Tool	
	SN	\$	QV	LK	Reset P Beeper		<b>T</b>	
	01-01	1				Hot [ Or	1]	
	01-02	2			Restore			
	01-03	3			About K	VM		
	01-04	1			SYSTE	ΕM		
	01-05	5			SYSTE	M		
	01-06	3			SYSTE	M		
	01-07	7			SYSTE	ΕM		
	01-08	3			SYSTE	M		
C		SN			BA	NKSUI	M: 01	
	Page UP/ DN: Select Banks							

Operating instructions

- 1) Press [F4] or  $\leftarrow$ ] ( $\rightarrow$ ] enters the F4 submenus.
- 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

ADMINIS F1: ADM			F3:	Set	8 Po F4: To	
SN	\$ QV	LK	Na	ame		L.
01-01			SY	STE	N	
01-02			SY	STE	N	
01-03			SY	STE	N	_
01-04			SY	STE	M	
01-05			SY	STE	N	
01-06			SY	STE	N	
01-07			SY	STE	N	
01-08			SY	STE	N	
NAME: SYSTEM BANKSUM: 01 F6: Edit F7: QV F8: Lout						
Page UP	/DN: Se					

### F7-Set quick view port(QV)

	ADMINISTRATOR 8 Ports									
	F1: AD	M	F2:	Sca	n	F3: 5	Set	F4:	Tool	
	SN	\$	6 C	۷	LK	Nar	ne		í	
$\Rightarrow$	01-0	)1	\$ #	ŧ		SYS	TEN	N		
	01-0	)2				SYS	TEN	Λ		
	01-0	)3				SYS	TEN	Λ		
	01-0	)4				SYS	TEN	Л		
	01-0	)5				SYS	TEN	Л		
	01-0	)6				SYS	TEN	Л		
	01-0	)7				SYS	TEN	Л		
	01-0	8(				SYS	TEN	Л		
(	GoTo SN BANKSUM: 01									
			DN:							

## F8-LOUT

 Press [F8] exits the OSD main menu and fully exits current port, then the log in window appears:

Enter	Name a	nd Pass	word
UserNa	ime:		
Passw	ord:		

• Users must log in all over again to regain access to the OSD.

 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 All numeric characters: 0-9

Default value: SYSTEM

- 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.)

# 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:

PC keyboard	MAC keyboard	
[Shift]	Shift	
[Ctrl]	Ctrl	
B	H	
L_Win & "1"	<b>A</b>	
L_Win & "2"		
L_Win & "3"		
L_Win & F12	(	
[Alt]	Alt	
[Print Screen]	F13	
[Scroll Lock]	F14	
	=	
[Enter]	Return	
[Backspace]	Delete	
[Insert]	Help	

## 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	Сору	
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 (D	
L_Win&"3"	V_UP	
L_Win&F12	Power C	
L_Win&F11	Help	
L_Win&L_Shift	Compose	
B	•	

# Appendix Specifications (18.5" FHD)

Function		XW1808	XL1816	
Computer connections	Direct	8	16	
	Max	256	512	
Port emulation	Keyboard, mouse	PS/2, USB		
	LED model	FHD TFT		
LED monitor	View area	18.5″		
	Optimum resolution	1920×768@60Hz		
	Display color	16.7 M		
	Brightness	500cd/m² (T y p)		
	Contrast ratio	1000 : 1 (T y p)		
	Pixel pitch(mm)	0.294(H) × 0.294(W)		
Maura	X/Y resolution	>1000 points /inch, (40 points/mm)		
Mouse	Roll wheel	Supports scroll wheel function		
Keyboard		99 keys (82 keys main keyboard +17 independent small numeric keyboard)		
Port selection		F pushbuttons, hotkeys, OSD menu		
Input power		100V- 240Vac, 50-60Hz, <1.5A		
Power consumption		31W	32W	
Operating temperature		0—40 ℃		
Store temperature		-20—60 °C		
Humidity		0—80% RH, non-condensing		
Net weight		11.45kg	11.6kg	
Product dimension (W $\times$ D $\times$ H)		448mm×605mm×42.5mm		
Package dimension (W $\times$ D $\times$ 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 pop 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.

4) If you connected the PC with PS/2 port, try to re-start the server(PC).

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】

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.