

# Daisy Chain KVM Console KVM-17CZ

## User Manual



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## Product Description

KVM-17CZ is a console integrates keyboard, mouse, monitor and switch function together. It can control multiple computers through series connection of daisy chain module, thus save much cost and space to separately equip keyboard, mouse and monitor for every computer.

It is easy and fast to install KVM-17CZ; you just need to connect Cat5 to KVM and its module without software configuration.

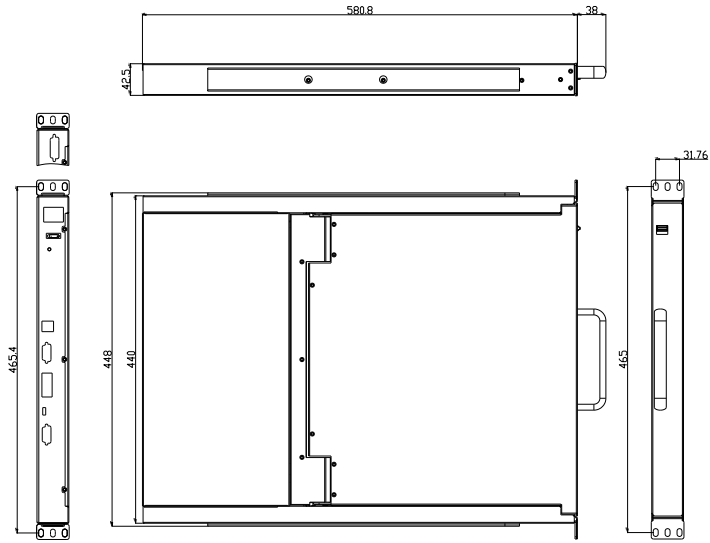
## Product Features

- 17" TFT LED monitor, high brightness, high resolution
- 1U height, fit 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, standard PS/2 port

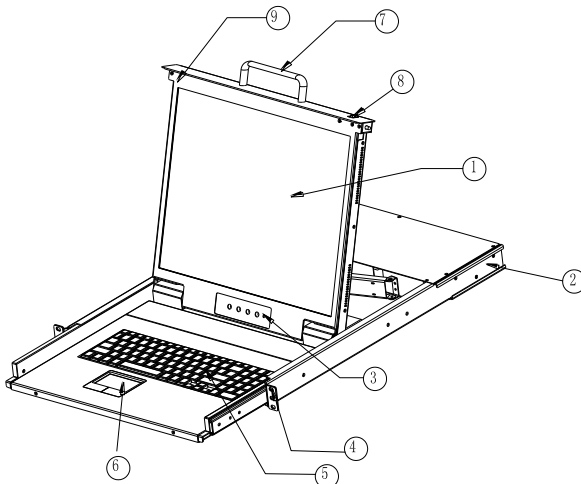
## KVM Function

- Daisy chaining connect up to 64 computers
- Sound indication after finishing switch
- Convenient computer switching via OSD menu, hotkeys or mouse
- Automatically record operating state of previous keyboard and mouse when switching between computers
- The mouse is available under auto-scan mode
- DDC Emulation Function-Video device of each server will automatically adjust to its best state of screen display
- Hot pluggable --add or remove computers without having to power down the switch

### Appearance



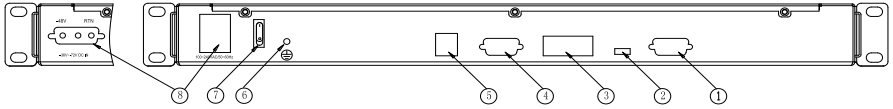
### Front view (see diagram 1-1.2)



- 1. LED monitor
- 2. Rear bracket slot
- 3. LED OSD controls
- 4. Front bracket
- 5. Keyboard
- 6. Touchpad
- 7. Handle
- 8. Release catch
- 9. Display panel

1-1.2 KVM-17CZ front view

### Rear view (see Diagram 1-1.3)



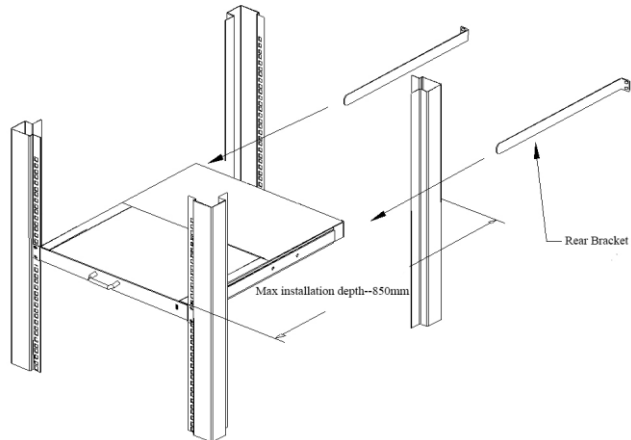
1-1.3 KVM-17CZ rear view

1. Upgrading port
2. M.R.N upgrading shift switch
3. input/output port
4. VGA output port
5. USB keyboard and mouse port
6. Ground connecting screw
7. Power switch
8. AC/DC power input

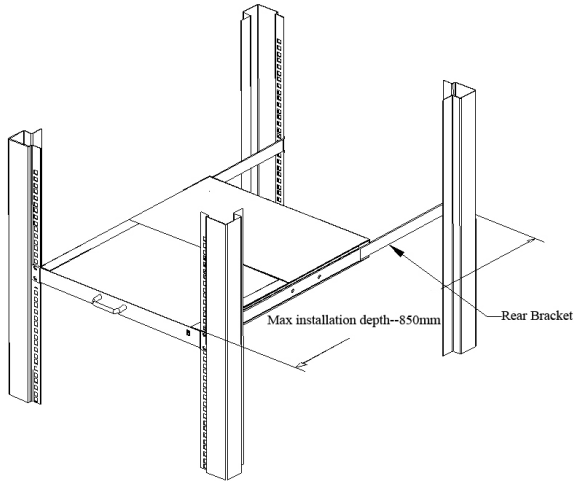
### Rack Mounting

A standard rack mounting kit is provided to mount the switch in a depth of 650-850mm in a standard 19" rack.

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 diagrams)



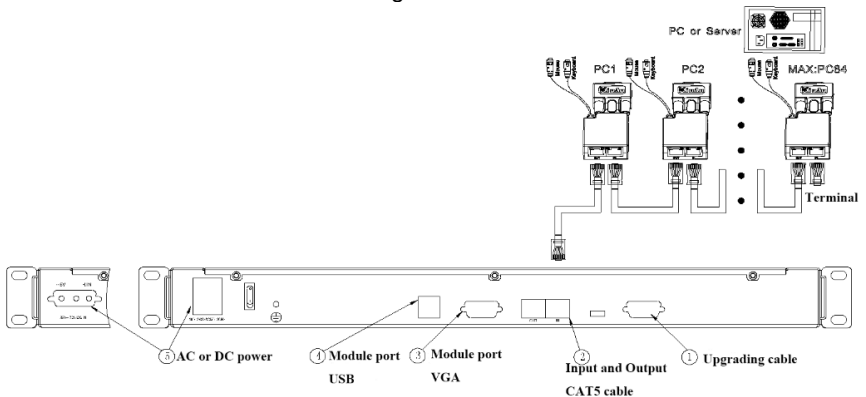
1-2.1 rack mounting (1)



1-2.2 rack mounting (2)

### Opening the console

- Connect below cables according to the serial number.



2-1.1 KVM-17CZ back port connection

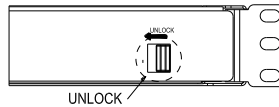
Note: 1. Connect input port of KVM-17CZ to output port of the link module, input port of previous module to the output port of next module, and input port of the last module to the terminator.

2. It doesn't work and has no display due to misconnection.

3. Module function:

- (1) The module has been connected if the yellow light is on;
- (2) The module is online if the yellow and green lights are on.

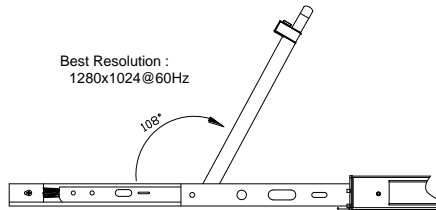
- Release the release catch:



### 2-1.2 unlocking

**\*Note: The release catch is only used for horizontal lock, it can't bear any load.**

- Pull the KVM all the way out and the bracket slot automatically lock;
- Rotate the LED module all the way back to expose the LED screen; the LED module can be rotated up to 108°.



### 2-1.3 rotate angle of the console

- Power on the KVM, the screen indicator is flashing green light.
- Open the computer or server after KVM is powered on, and two "beep" sounds appear to show the first open PC or the server with OSD prompted to enter password, at this time power light of the screen is green.

Enter PWD:

### 2-1.4 password window

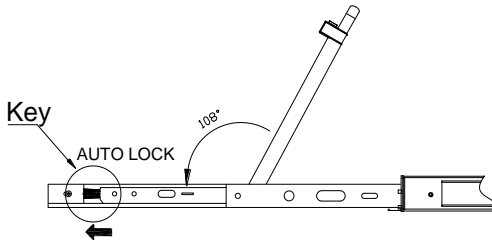
- Enter your password, the factory default password is blank, then press "Enter" key.
- OSD menu automatically pop-up and check connected modules after the computer start up. The initial interface is as follows; find more details in OSD menu operation.



2-1.5 the initial interface of OSD after start up

### Closing the console

- Close the display panel and the power is automatically off;
- Pull the release catches to release the keyboard, and then push the keyboard module all the way in.



2-1.6 sketch diagram to unlock the console

Note: Operate above steps to avoid hurting your hand when push in KVM console.

## LED OSD Configuration



3-1.1 OSD controls front view

Controls	Instruction
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 returns to the previous menu or presses this button exits the LED OSD. Press AUTO for automatic configuration.
SL-/SL+	Press this button moves your menu to make corresponding adjustment.
Indicator state	Green :running Red :power off or access non standard VESA signal Flash green: energy saving mode or no signal

Table 3-1.1 buttons operating instruction

Press AUTO when 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 1280x1024, refresh rate at 60Hz.

### OSD MENU operation

1) Using the keyboard:

Double click **【Scroll Lock】** in 1 second or press **【F12】** to set up the hotkey, the default hotkey is Scroll, the OSD menu pops up with indicating sound.



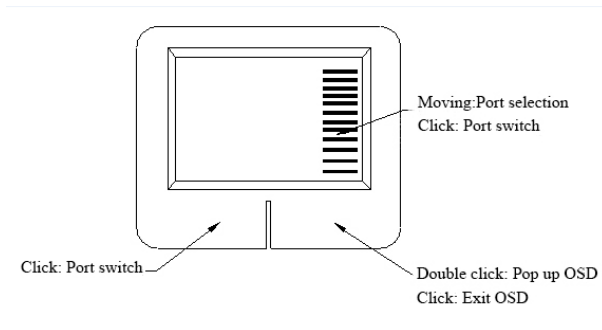


Enter the OSD menu through the keyboard:

1. Press **【↑】** **【↓】** moves the highlight bar to select the submenu, then press **【Enter】** to operate the relevant computer.
2. Press **【Page Up】** or **【Page Down】** to quickly move to next page.
3. Press any key from **【0-9】** to enter corresponding port, for example,if you choose 09, press **【0】** and **【9】**,then 09 port will be highlighted.

Enter the OSD menu through the mouse:

Double click the right button of the mouse to enter hotkey mode and the OSD main menu pop up, press the right button to exit OSD.



### 3-1.2 Mouse operating instruction

**OSD functions**

Key	Menu Item	Submenu/instruction
F1	setup	Scan Mode: used for setting up scanning mode Global Scan Rate: used for setting up scanning interval ID Timeout: used for setting up the display time of one port ID Position: allows each user to customize the position where the Port ID appears. HotKey :used for set up pop-up OSD hotkey Password: used for set up log in password Load Defaults: help users return the set up to the original factory settings About KVM:showing the KVM version after press Enter
F4	Scan	Used for enter scanning mode, automatically re-scanning the connected computers. Menu can be divided into two ways:Global and Individ
F5	Edit Port	Name : module name Scan Rate: Set scanning rate Serial No: showing the serial number of modules, each module has its unique serial number which can't be editing. CIMZ TYPE: module type
F8	Lout	Log out/lock KVM switch

If the CAT5 cable distance between the computer and KVM-17CZ is over 30M or CAT5 cable has large signal attenuation, the display screen will be distorted. At this time you can press **【+】**, **【-】** on the keyboard to adjust definition, press **【<】**, **【>】** to adjust brightness. See below pop up OSD:

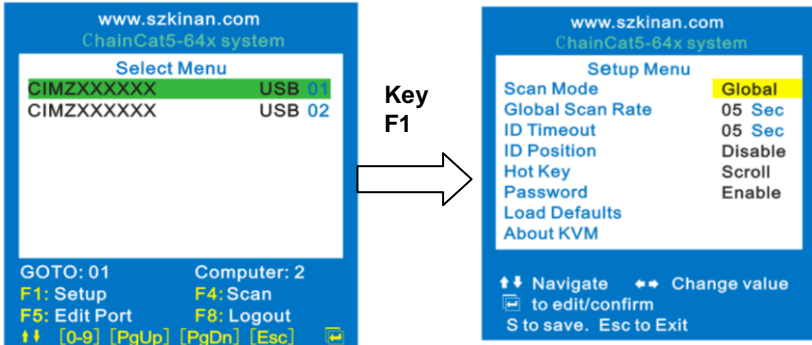


### 3-1.3 adjusting interface of definition and brightness

After finishing adjustment, press ESC or Enter to return to OSD main menu.

### F1 -Set up menu

Use **【↑】 【↓】** key to move green highlight bar to select port, menu appears as shown in diagram 3-1.4 after press **【F1】** .




3-1.4 OSD set up menu

Operating instructions:

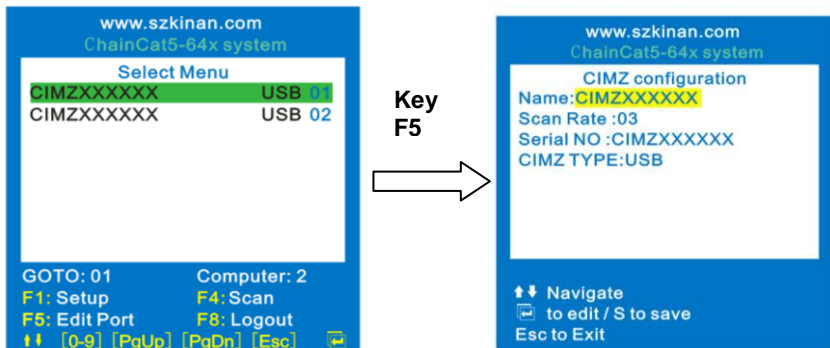
1. Press **【↑】 【↓】** and move green highlight bar to select menu you need to set up.
2. Press **【←】 【→】** to choose different ways, press **【Enter】** to confirm, then **【S】** to save.

Submenu items	Submenu/instruction
Scan Mode	Set as Individ way, and then use this function to respectively set up scanning rate of each computer through edit port.
Global Scan Rate	Global Scan: time intervals under the mode are: 5S,10S,15S,20S,25S and 30S
ID Timeout	Time intervals: 0S, 5S, 10S, 15S, 20S, 25S and 30S. 0 second means the corresponding port never disappears.
ID Position	Allows each user to customize the position where the Port

	 <p>ID appears.</p>
HotKey	Set up Scroll or F12 as hotkey
Password	Use this function to set up password, the default password is blank.
Load Defaults	Help users to return the set up to the original factory default settings
About KVM	Enter About KVM you can see the model,software and hardware version of the KVM

### F5-Edit port

Use **【↑】** **【↓】** key to move green highlight bar to select port, a menu appears as shown in diagram 3-2.5 after press **【F5】** .



3-2.5 OSD edit interface

1) Name: Serial number is defaulted to be the module name, users can define the name but the serial number will be the same, thus users can differentiate modules according to the label on the module when they are operating the console.

Operating instructions:

- Press F5 and key in the new name or modify the old one, then press Enter to save the name and exit editing.

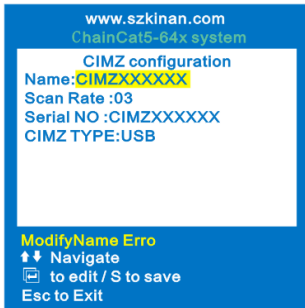
Note: Name character ( max 16 bytes ) include:

Alpha characters letter: a-z

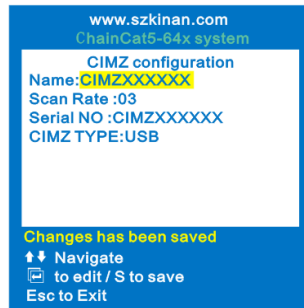
Numeric characters: 0-9

- Press **【S】** to save your above operation, a window will show up indicating the name is changed as shown in diagram 3-2.7.
- Press **【Esc】** to return to OSD main menu.

When users modify a module name, if the changed name is the same with one name that in use, press Enter and you will get the indication“Modify Name Error” from the system. After successfully changed the name, a “Changes has been saved” indication will pop up.



3-2.6 edit port name error



3-2.7 successfully edit port name

- 2) Scan Rate: Set up scan rate, the background color of the font of corresponding port change into green after choosing scan rate, press **【Enter】** to modify and press **【S】** to save.
- 3) Serial NO.: showing the serial number of modules, each module has its unique serial number which can't be editing.
- 4) CIMZ TYPE: Module type is divided into USB and PS/2, it shows USB when using USB module.

## OSD factory default settings

Factory default settings:

Settings	Default
OSD hotkey	【 Scroll Lock 】 【 Scroll Lock 】
Factory password	Press 【Enter】
Port display mode	Not display port
Scanning duration	5 seconds
Scanning mode	Global
Auto quit	【Esc】

## Operating system

Support below operating system

Operating system		Version
Windows		2000 or higher
Linux	RedHat	7.1 or higher
	SuSE	9.0 or higher
	Mandriva (Mandrake)	9.0 or higher
UNIX	AIX	4.3 or higher
	FreeBSD	4.2 or higher
	Sun	Solaris 8 or higher
Novell	Netware	5.0 or higher
Mac		OS 9 or higher
DOS		6.22

Table 3-2.1 operating system

## Specifications

	Model	KVM-17CZ
Computer connections	Direct	1
	Max	64
Port emulation	Keyboard,mouse	PS/2,USB
LED monitor	Model	SXGA TFT
	View area	17 "
	Optimum resolution	1280×1024@60Hz
	Display color	16.7 M
	Brightness	250cd/m <sup>2</sup> ( T y p )
	Contrast ratio	1000 : 1 ( T y p )
	Pixel pitch (mm)	0.264(H) × 0.264(W)
Mouse	X/Y resolution	>1000 point / inch,( 40 point/mm )
	Scroll wheel	Support scroll wheel function
Keyboard		99 keys (82 main keyboard +17 keys independent numeric keyboard)
Port selection		Button, hotkey, OSD menu, mouse
Input power		100V- 240V AC , 50/60Hz , 1A
Power consumption		19.8W
Operating temperature		0~50 ℃
Store temperature		-20~ 60 ℃
Humidity		0~80% RH, non-condensing
Net weight		14.5kg
Product dimension (W × D × H)		448mm x601mm x42.5mm
Package dimension (W × D × H)		765mm x615mm x185mm
Optional power input		-36V~ -72V DC ( Model: KVM-17CZ-D )