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# **User Manual**

USB Hub DB-15

IP 2-console KVM

LCDK1073-8 / -16





USB Hub DB-15 2-console KVM

LCDK1072-8 / -16





**USB Hub DB-15 KVM** 

LCDK1071-8 / -16



#### Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

### Safety Instructions

# Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing dam age to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being dam aged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:

	Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or
	failure to follow instructions supplied with the product.
	Repair or attempted repair by anyone not authorized by us.
	Any damage of the product due to shipment.
	Removal or installation of the product.
	Causes external to the product, such as electric power fluctuation or failure.

- ☐ Use of supplies or parts not meeting our specifications.
- □ Normal wear and tear.
- ☐ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

### Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

# **Contents**

< Part 1 >	USB Hub DB-15 IP 2-console KVM	
	LCDK1073-8 / -16	
1.1 1.2 1.3 1.4 1.5	Package contents KVM port connection IP & Local console connection IP console setting Built-in USB hub usage & connection Specifications	P.1 P.2 P.2 P.3 P.4 P.5
< Part 2 >	USB Hub DB-15 2-console KVM LCDK1072-8 / -16	
2.1	Package contents	P.6
2.2	KVM port connection	P.7
2.3	Remote & Local console connection	P.7 - 8
2.4	Built-in USB hub usage & connection	P.9
2.5	Specifications	P.10
< Part 3 >	USB Hub DB-15 KVM LCDK1071-8 / -16	
3.1	Package contents	P.11
3.2	KVM port connection	P.12
3.3	Built-in USB hub usage & connection	P.13
3.4	Specifications	P.14
< Part 4 >	Usage	
4.1	KVM Button	P.15
4.2	Password	P.16
4.3	KVM OSD	P.17
4.4	KVM Hotkey & Remote Console Hotkey	P.18
4.5	DC power 12V, 24V, 48V Input	P.19

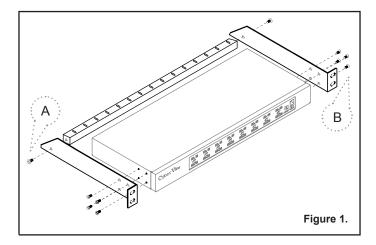
### **Before Installation**

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

# **Unpacking**

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

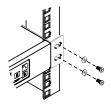
### Installation for standalone KVM

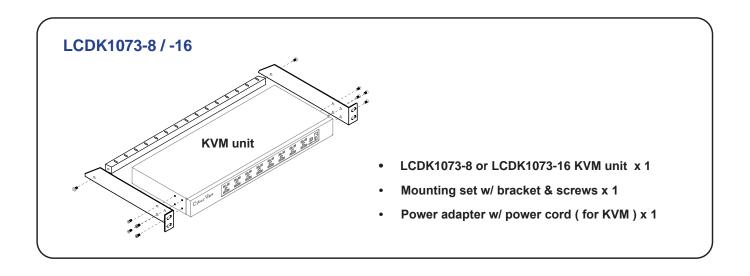


Screw A: 2 pcs Screw B: 8 pcs

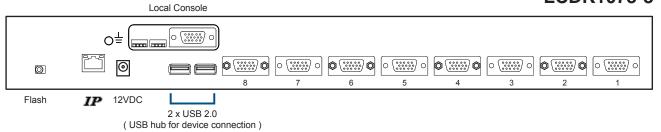
M3.2 x 4.5 mm M4 x 10 mm

- Install each bracket using screws provided shown in **Figure 1**.
- Fix the KVM into the rack

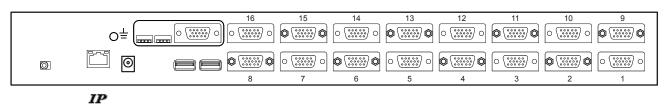




### LCDK1073-8

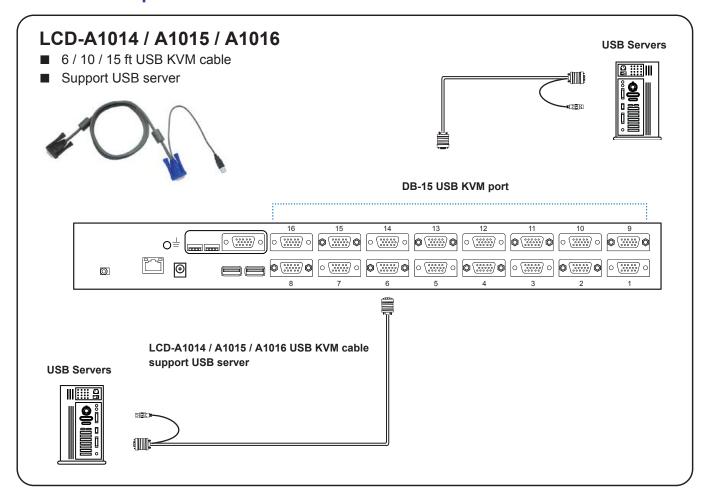


### LCDK1073-16

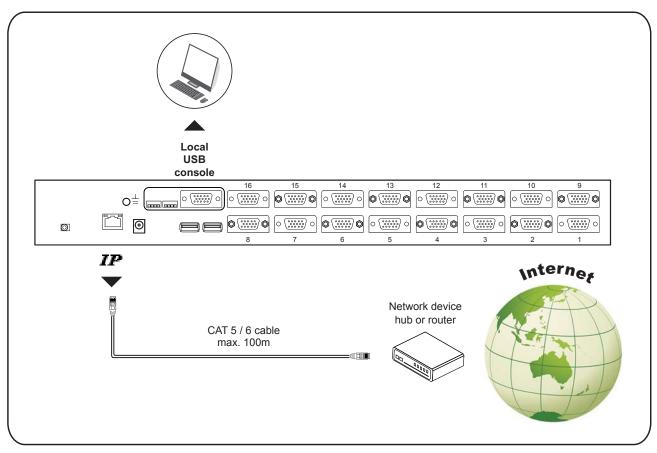


Λ

Daisy-chain feature for this model is NOT available.



# < 1.3 > IP & Local console connection

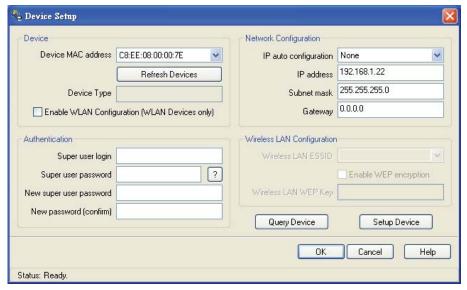


After the cable connection, please take the following steps to configure the IP KVM:

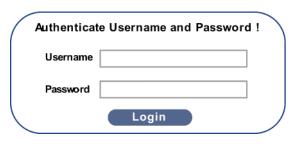
1. Download IPKVMsetup.exe from the link:

http://www.rackmountmart.com/downloads.html

2. Double click IPKVMsetup.exe to configure the IP KVM by device setup as below.



- 3. Click Refresh Device to search the connected IP KVM
- 4. Select the M.A.C. address, which you want to setup, then click Query Device
- 5. Enter Super user login. The default is super
- 6. Enter Super user password. The default is pass
- 7. Enter the new super user password
- 8. Re-enter the new password
- 9. Change the desired IP address / Subnet mask / Gateway, then click Setup Device to confirm the setting to IP KVM
- 10. The default address is as below:--
- The single IP KVM model, such as IP-1602H http://192.168.1.22
- 11. Open Internet Explorer (I.E.), version 6.0 or above
- 12. Enter the IP KVM address into the address bar
  - For Single IP http://192.168.1.22
- Enter username ( default is super )
   Password ( default is pass )



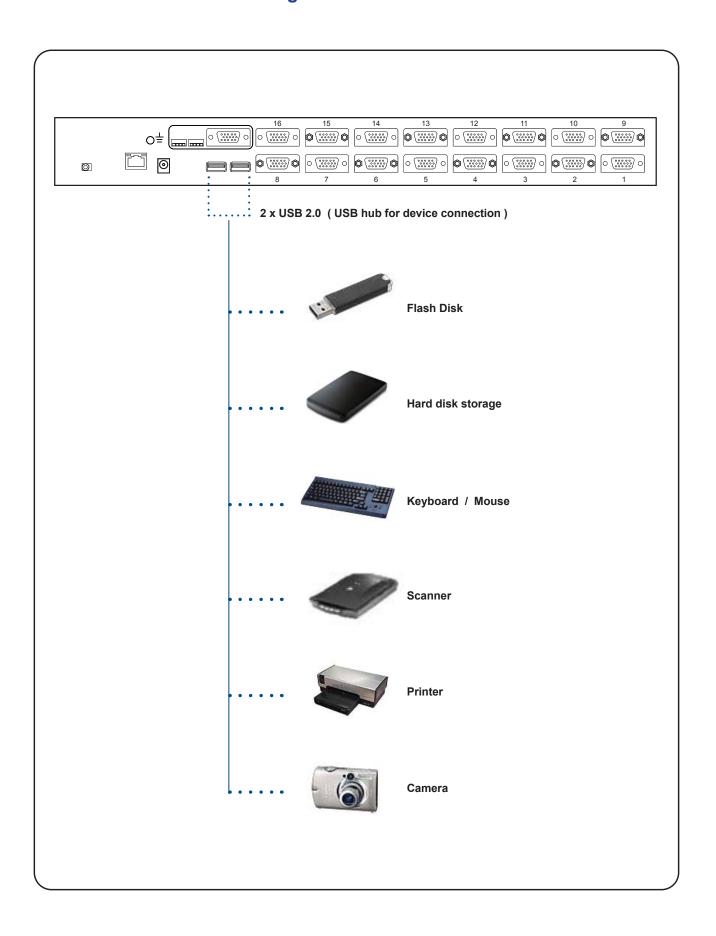
14. After successful login to IP KVM, the user will enter the main page of IP KVM



The setting is enough for intranet.

If the users access KVM GUI via internet, please ask MIS for assistance and download IP KVM user manual from the link:

http://www.rackmountmart.com/downloads.html



### < 1.5 > Specifications

LCDK1073-8 / -16

■ KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector

Connectivity: Combo 2-in-1 VGA + USB KVM cable, 6, 10 or 15 feet

Local Console

Graphic connector: 1 x DB-15

Resolution: Up to 1920 x 1200

Input device: 2 x USB type A for keyboard & mouse

USB hub: 2 x USB type A for sharing other peripheral devices among the computers

**■** IP Remote Console

Connector: RJ45 Ethernet

User management: 15-user login, 1 x active user

Network protocol: DHCP / BOOTP / DNS

Security: SSL v3, RSA, AES, HTTP / HTTPs, CSR

Resolution: Up to 1600 x 1200

Browser: IE, Firefox, Safari, Netscape

Compatibility

Multi-platform: Mix PCs, SUN and Mac G3 / G4 Mac / iMac Support: Windows 7 / Vista / 2003 / XP, Linux, Unix

Power

Input: 100 or 240V AC at 50 or 60 Hz via IEC type cord

Option DC: 12V / 24V / 48V DC input
Consumption: Max. 12 Watt, Standby 5 Watt

■ Regulatory Approval: FCC, CE

Environmental

Operating: 0 to  $50^{\circ}$ C Storage: -5 to  $60^{\circ}$ C

Relative humidity: 90%, non-condensing

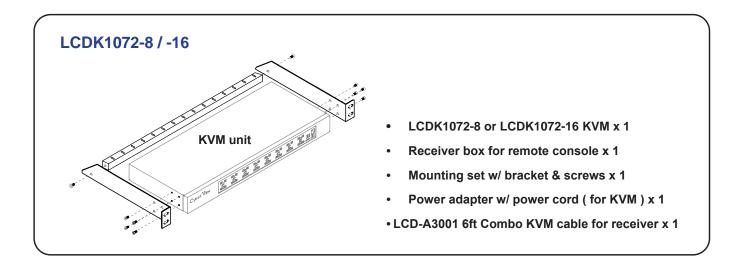
Shock: 50G peak acceleration (11ms, half-sine wave)

Vibration: 58~100Hz / 0.98G (11ms / cycle)

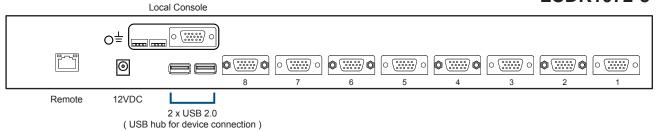
Product Information

Dimension (W x D x H): 443 x 180 x 43.6 mm / 17.4 x 7.1 x 1.72 inch

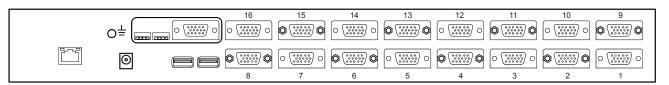
Net weight: 3 kg / 6.5 lb



### LCDK1072-8

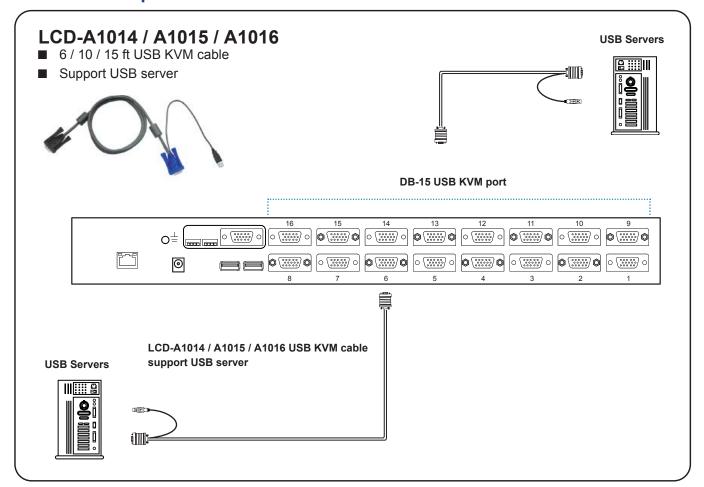


### LCDK1072-16

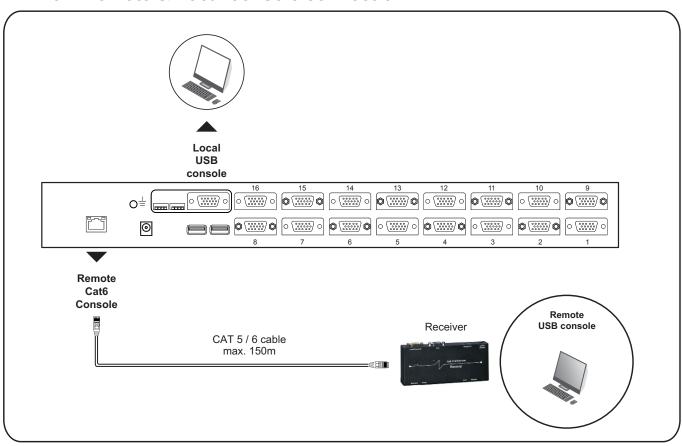


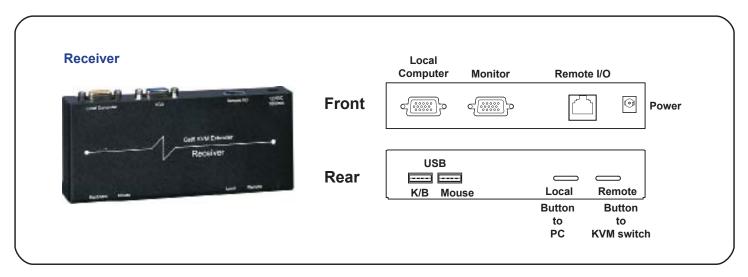


Daisy-chain feature for this model is NOT available.



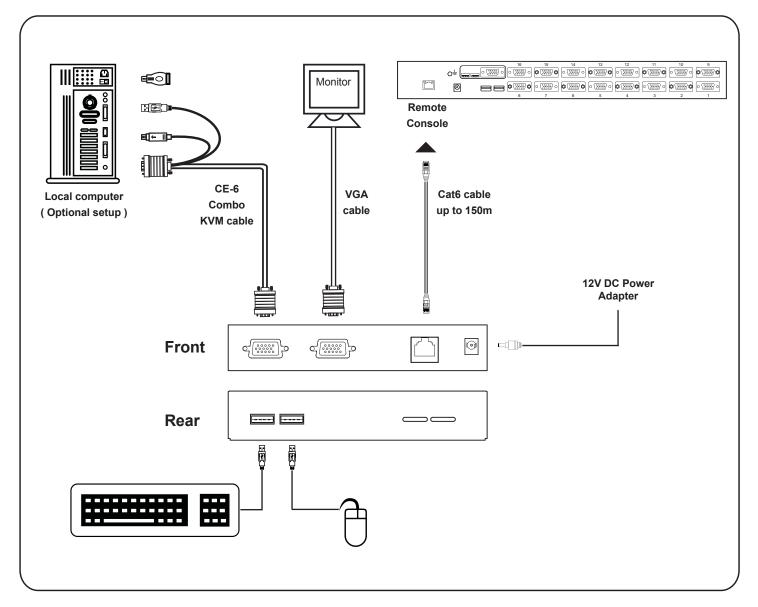
# < 2.3 > Remote & Local console connection



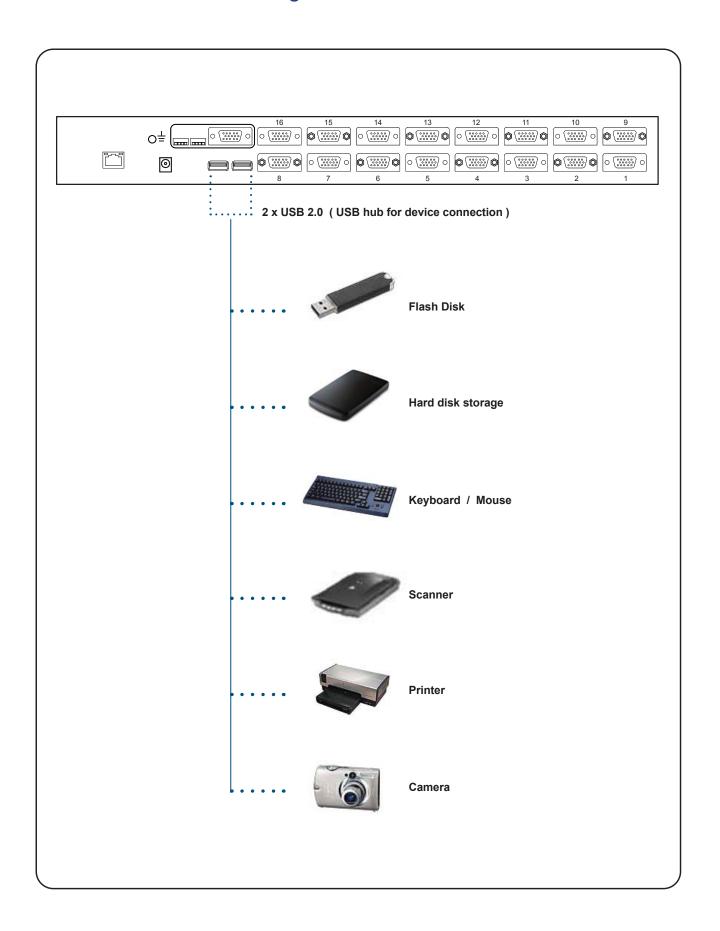




The receiver provides a hotkey function for remote console. Please refer to P.18



# < 2.4 > Built-in USB Hub Usage & Connection USB Hub DB-15 2-console KVM



### < 2.5 > Specifications

LCDK1072-8 / -16

KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector

Connectivity: Combo 2-in-1 VGA + USB KVM cable, 6, 10 or 15 feet

■ Local Console

Graphic connector: 1 x DB-15

Resolution: Up to 1920 x 1200

Input device: 2 x USB type A for keyboard & mouse

USB hub: 2 x USB type A for sharing other peripheral devices among the computers

**■** Remote Console

Connector: 1 x DB 15-pin, VGA Resolution: Up to 1600 x 1200

Input device: 2 x USB type A for keyboard & mouse

Remote I/O: RJ45 via Cat5 / Cat5e / Cat6 cable up to 150m

Compensation: Auto adjust for cable length

Compatibility

Multi-platform: Mix PCs, SUN and Mac G3 / G4 Mac / iMac Support: Windows 7 / Vista / 2003 / XP, Linux, Unix

Power

Input: 100 or 240V AC at 50 or 60 Hz via IEC type cord

Option DC: 12V / 24V / 48V DC input
Consumption: Max. 12 Watt, Standby 5 Watt

■ Regulatory Approval: FCC, CE

■ Environmental

Operating: 0 to 50°C Storage: -5 to 60°C

Relative humidity: 90%, non-condensing

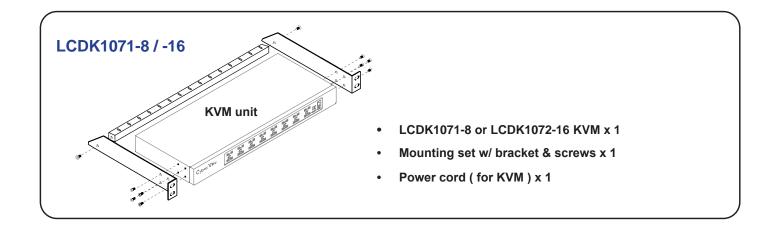
Shock: 50G peak acceleration (11ms, half-sine wave)

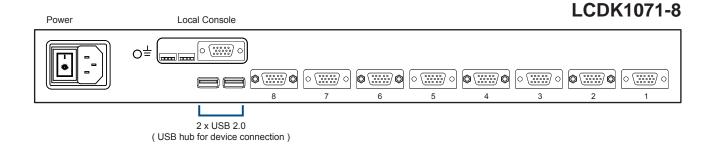
Vibration: 58~100Hz / 0.98G (11ms / cycle)

**■** Product Information

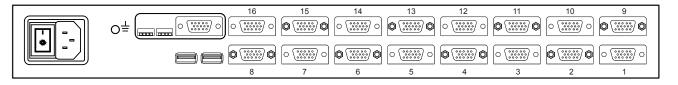
Dimension (W x D x H): 443 x 180 x 43.6 mm / 17.4 x 7.1 x 1.72 inch

Net weight: 3 kg / 6.5 lb



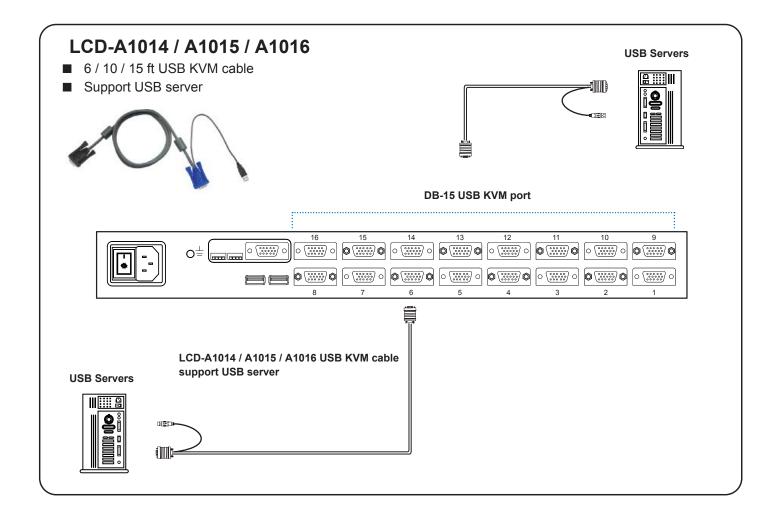


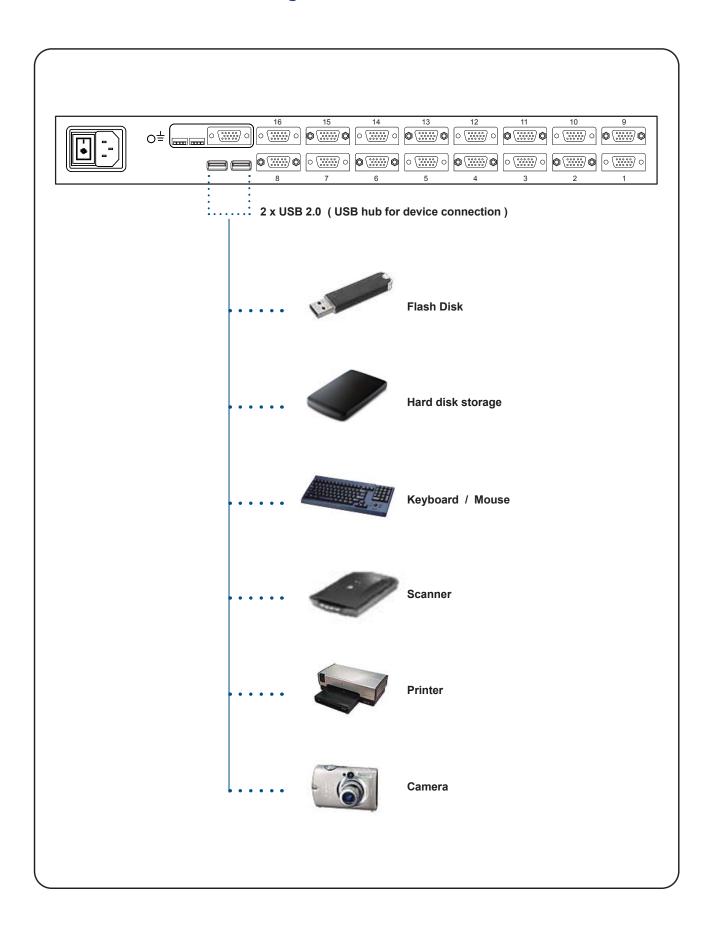
### LCDK1071-16



A

Daisy-chain feature for this model is NOT available.





## < 3.4 > Specifications

LCDK1071-8 / -16

KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector

Connectivity: Combo 2-in-1 VGA + USB KVM cable, 6, 10 or 15 feet

Local Console

Graphic connector: 1 x DB-15

Resolution: Up to 1920 x 1200

Input device: 2 x USB type A for keyboard & mouse

USB hub: 2 x USB type A for sharing other peripheral devices among the computers

Management

Multilingual OSD: English, France, German, Spanish, Italian, Russian, Simplified Chinese,

Japanese

Hotkey combination: Scroll-lock, Cap-lock, Num-lock, Alt, Ctrl & Win

Security: Password enable & disable, up to 8 users profile for port access

PC Selection: Front button, OSD menu & hotkey

Compatibility

Multi-platform: Mix PCs, SUN and Mac G3 / G4 Mac / iMac Support: Windows 7 / Vista / 2003 / XP, Linux, Unix

Power

Input: 100 or 240V AC at 50 or 60 Hz via IEC type cord

Option DC: 12V / 24V / 48V DC input
Consumption: Max. 12 Watt, Standby 5 Watt

Regulatory Approval: FCC, CE

Environmental

Operating: 0 to 50°C Storage: -5 to 60°C

Relative humidity: 90%, non-condensing

Shock: 50G peak acceleration (11ms, half-sine wave)

Vibration: 58~100Hz / 0.98G (11ms / cycle)

Product Information

Dimension (W x D x H): 443 x 180 x 43.6 mm / 17.4 x 7.1 x 1.72 inch

Net weight: 3 kg / 6.5 lb

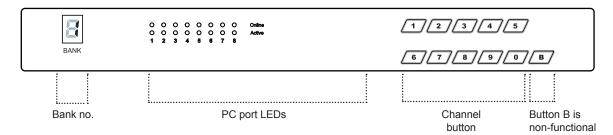
### 4.1 KVM Button

### **Power ON**

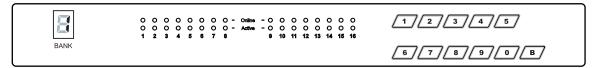
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

# **Front Panel - Port LED Indications**

# 8 ports



## 16 ports



Bank no.	7-Segment BANK LED indication ( Bank 1 only )	
PC port LEDs	Online: Blue LED on indicating a PC is connecting to the port	
	Active: Green LED on indicating a selected channel	
Channel button	Press to select channel from 01 to 16	

The password is enabled by default, the default password is "00000000" eight zeros (**Do not use "0" on number pad**)

#### **■** Enable password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the hotkey Scroll Lock + Scroll Lock + P
- 3. In SUPERVISOR level, enter "00000000" eight zeros in user name & password field (Do not use "0" on number pad)
- 4. In USER level, press **Space bar** + **Enter** in user name & password field Remark: Automatic logout after 10 minutes of inactivity

#### ■ Set your own user name & password

- Login the KVM in SUPERVISOR level by pressing "00000000" eight zeros in user name & password field
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Set password in SUPERVISOR & USER level
  - a. In the left-top row "S" (SUPERVISOR), press Enter to set your own user name & password
  - b. In the row 1 to 8 (USER), press Enter to set your own user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
  - Remark: a. Blank has underscore, while SPACE doesn't have
    - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

#### ■ Change your password

- 1. Login the KVM in SUPERVISOR level by pressing your own user name & password
- Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- Change password in SUPERVISOR & USER level
  - a. In the left-top row "S" (SUPERVISOR), press Enter to change your user name & password
  - b. In the row 1 to 8 (USER), press **Enter** to change your user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
  - Remark: a. Blank has underscore, while SPACE doesn't have
    - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

#### ■ Disable your password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- Logout the KVM by pressing the KVM hotkey Scroll Lock + Scroll Lock + P
- 3. You don't need user name & password to access the KVM OSD menu

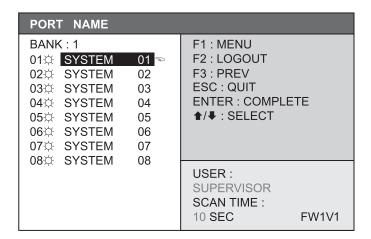
### ■ Forget your password

Please contact your supplier for further support

#### Remark:

- You must press the KVM hotkey within 2 seconds
- A beep sound will be heard for successful entering KVM hotkey

### **OSD Menu**



### **OSD** operation

next to the system name	The PC is powered on
next to the system name	The PC is selected
F1	Access F1 MAIN MENU
F2	Logout the OSD menu
F3	Previous menu
Esc	Cancel / Quit
Enter	Complete / Switch to selected port
<b>↑/</b> ↓	Switch to previous or next port

# F1 Main Menu

01 LANGUAGE

02 PORT NAME EDIT

03 PORT SEARCH

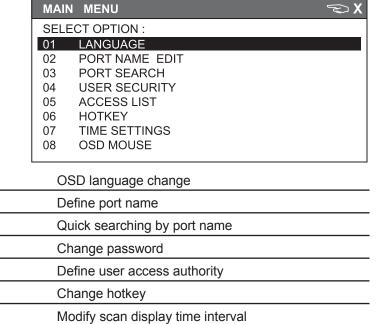
05 ACCESS LIST

08 OSD MOUSE

06 HOTKEY

04 USER SECURITY

07 TIME SETTINGS



Modify OSD mouse speed

# 4.4 KVM Hotkey & Remote Console Hotkey USB Hub DB-15 KVM Usage

Local Console Hotkey	Function		
Scroll Lock + Scroll Lock + Space Bar	Calling OSD menu		
Right-button mouse + Esc	Calling OSD menu		
Scroll Lock + Scroll Lock +	Switch to previous port		
Scroll Lock + Scroll Lock +	Switch to next port		
Scroll Lock + Scroll Lock + Port no.	Switch to specific port		
Scroll Lock + Scroll Lock + B	Turn the buzzer ON and OFF * Default the buzzer is ON		
Scroll Lock + Scroll Lock + P	Logout the KVM if password security is ON. Show up the status windows		
Advance hotkeys (for Supervisor login only)			
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode		
Scroll Lock + Scroll Lock + R	Reset all the KVM settings to factory default *Except User Security settings		
Scroll Lock + Scroll Lock + U	Disable and enable password security *Default security is ON		
Scroll Lock + Scroll Lock + L	To enable / disable the screen saving function and 10 minutes auto-logout *Default the screen saving is OFF		

#### Remarks:

- Example of "Scroll Lock + Scroll Lock + Port no."
  - Port No.: 01 to 16
  - e.g. Port 4: Scroll Lock + Scroll Lock + 0 + 4
  - e.g. Port 16: Scroll Lock + Scroll Lock + 1 + 6
- You must press the hotkey within 2 seconds
- A beep sound will be heard for successful entering
- The numeric keypad is not supported, while in OSD screen, the arrow keys, and Enter keys are supports

Remote Console Hotkey	Function	
Scroll Lock + Scroll Lock + C	Toggle switch between remote & local port	
Scroll Lock + Scroll Lock + Q	Turn the buzzer ON & OFF *Default the buzzer is ON	
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds	
Scroll Lock + Scroll Lock + A	Auto-adjust the video signal	







Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

### Remarks:

■ Package does not include power cord

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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