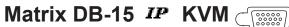


Toll Free: 1-888-865-6888

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Email: sales@RackmountMart.com

### **User Manual**





LCDK2010-31 / 41 / 42 LCDK2011-31 / 41 / 42



**Matrix DB-15 KVM** 



LCDK2004-2 / 3 / 4

LCDK2005-2 / 3 / 4



#### 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 damage 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 damaged 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 > Matrix DB-15 IP KVM

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1.2	KVM port connection	P.2
1.3	IP, Remote & Local console connection	P.3 - 4
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#### < Part 2 > Matrix DB-15 KVM

LCDK2004-2 / 3 / 4 LCDK2005-2 / 3 / 4

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#### < Part 3 > Usage

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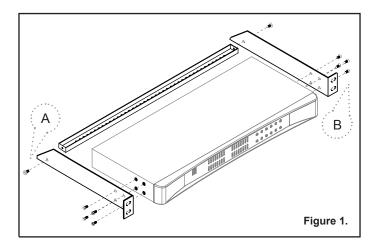
#### **Before Installation**

- 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.

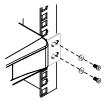
#### Installation for standalone KVM



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

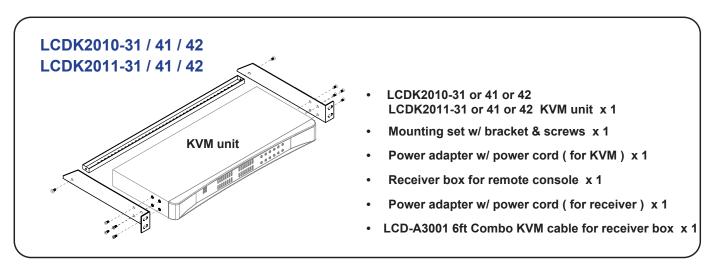


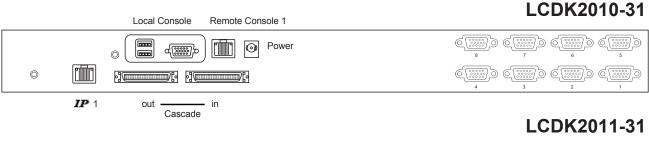
#### < 1.1 > Package Contents

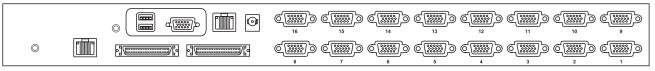
9[.....[...]

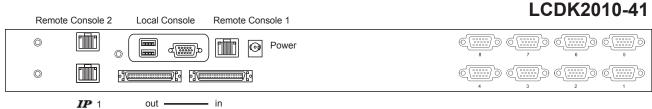
Cascade

0

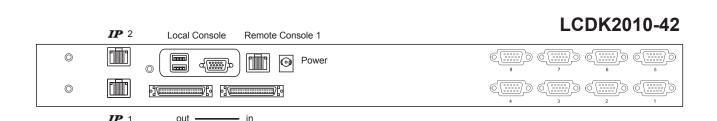






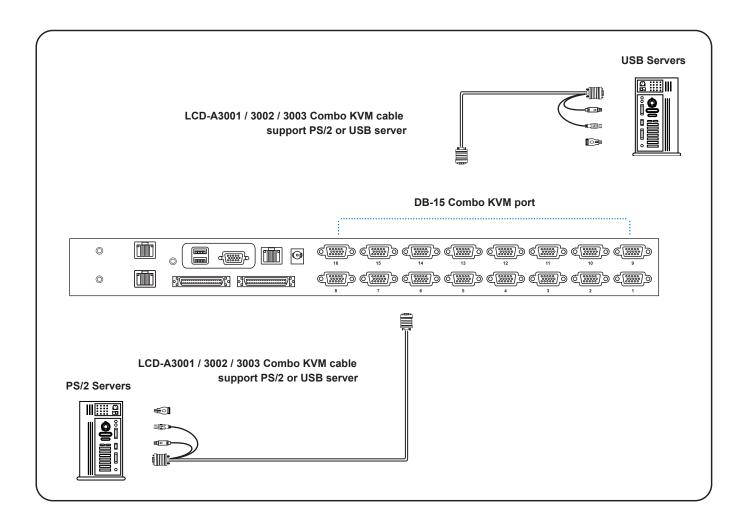


# Cascade .... LCDK2011-41



#### 

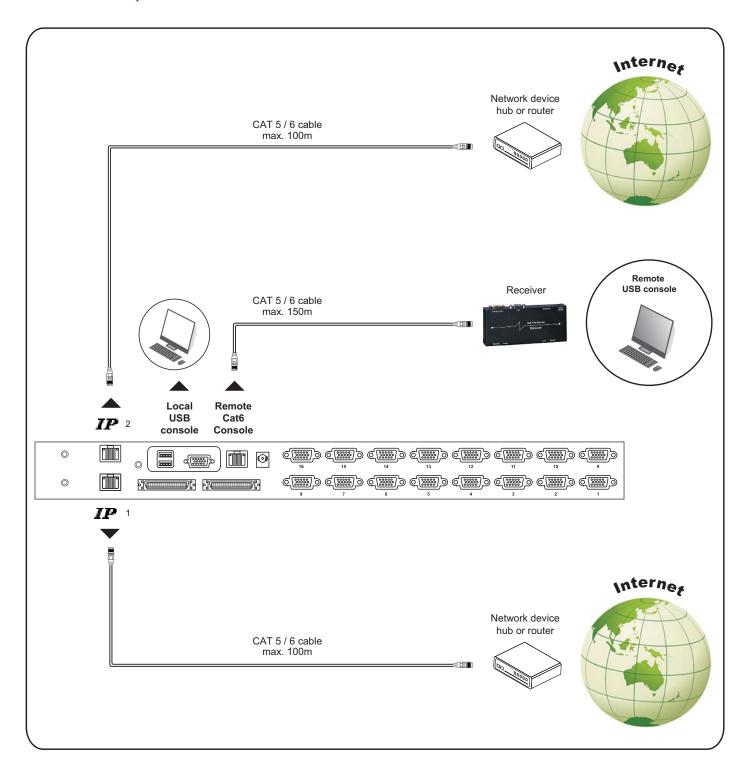
LCDK2011-42

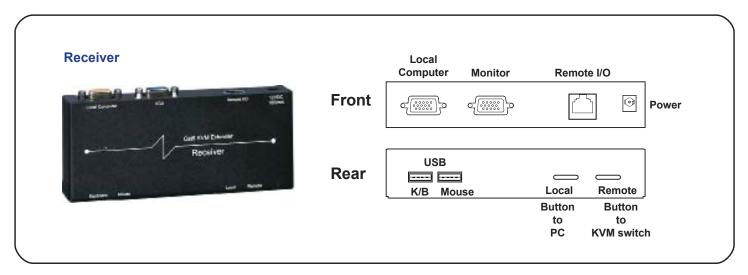


#### LCD-A3001 / 3002 / 3003

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server

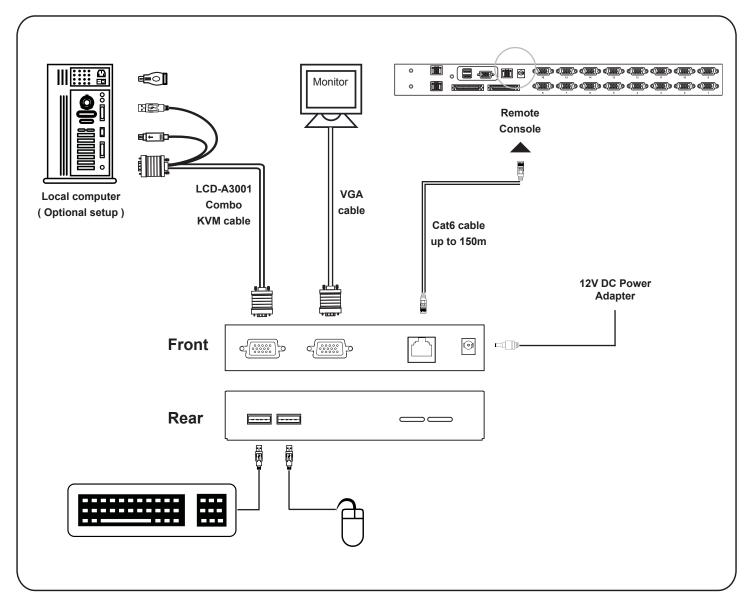








The receiver provides a hotkey function for remote console. Please refer to P.19



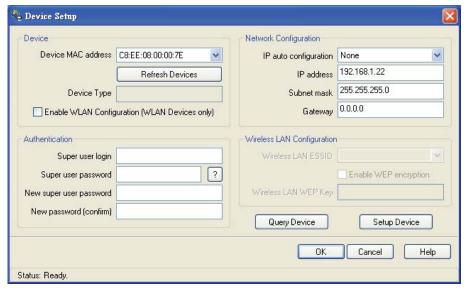
#### < 1.4 > IP console setting

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

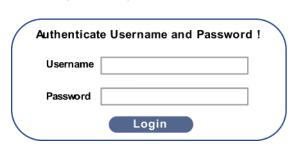
1. Download IPKVMsetup.exe from the link:

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 M-IP1613 http://192.168.1.22
- The dual IP KVM model, such as M-IP1624 http://192.168.1.22 (for 1st IP) http://192.168.1.23 (for 2nd IP)
- 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
  - For Dual IP http://192.168.1.22 ( for 1st IP )
     http://192.168.1.23 ( for 2nd IP )
- 13. 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

- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with LCD-A1024 cascade cable.



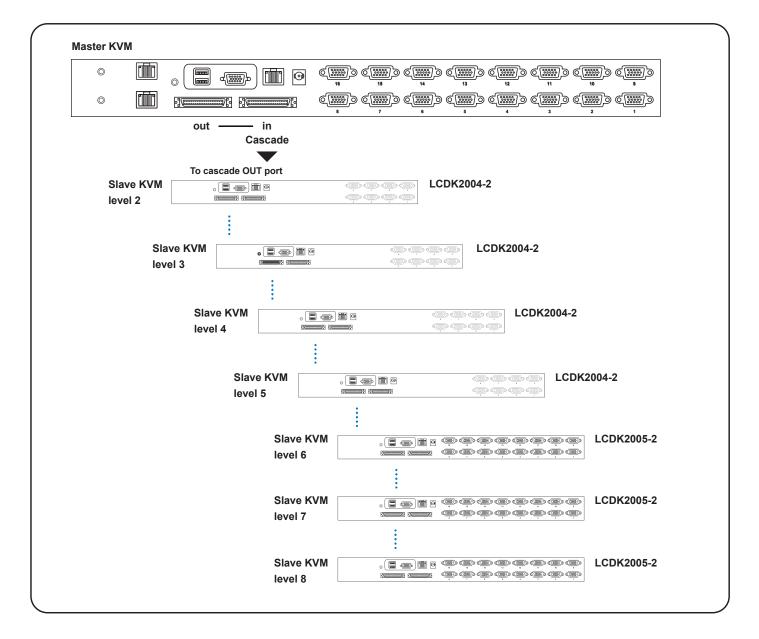
Cascaded KVMs from level 2 to 8 must be the models of LCDK2004-2/LCDK2005-2 or LCDK2006-2/LCDK2007-2



When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





#### LCD-A1024

8ft Matrix KVM cascade cable

#### < 1.6 > Specifications

LCDK2010-31 / 41 / 42 LCDK2011-31 / 41 / 42

KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector

Connectivity: Combo 4-in-1 KVM cable up to 6, 10 & 15 feet

■ Local Console

Monitor port: 1 x DB-15 VGA ( Up to 1920 x 1080 / 1920 x 1200 ) Keyboard & mouse port: 2 x USB type connector for keyboard & mouse

Cat6 Remote Console

Number of remote port: 1

Monitor port: DB15-pin VGA, up to 1600 x 1200

Keyboard & mouse port: 2 x USB type connector for keyboard & mouse Remote I/O: RJ45 via Cat5 / Cat5e / Cat6 cable up to 500 feet

■ IP Remote Console

Number of IP console: 1 for LCDK2010-31/41, LCDK2011-31/41

2 for LCDK2010-42, LCDK2011-42

User management: 15-user login, 1 x active user
Browser: Internet Explorer, Firefox, Safari

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

IP Access: RJ45 Ethernet per IP console

■ Expansion: Up to 240 servers by 8-level cascade

Compatibility

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

Power

Input: AC power adapter

Consumption: Max. 48 Watt, Standby 5 Watt

■ Regulatory

Safety: cUL, FCC & CE certified

Environment: RoHS2 & REACH compliant

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)

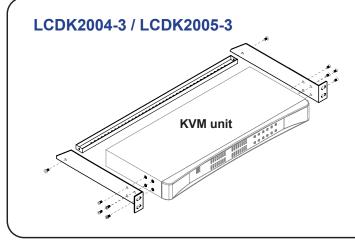
Product Information

Dimension (W x D x H): 443 x 171 x 44 mm / 17.4 x 6.7 x 1.73 inch

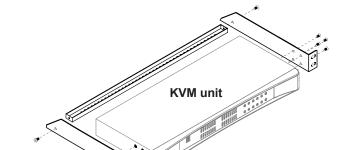
Net weight: 3 kg / 6.5 lb

# LCDK2004-2 / LCDK2005-2 KVM unit

- LCDK2004-2 or LCDK2005-2 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 1
- Power adapter w/ power cord (for receiver) x 1
- LCD-A3001 6ft Combo KVM cable for receiver box x 1



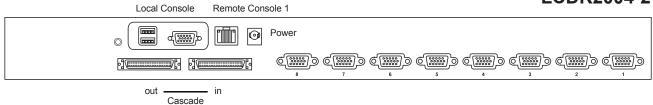
- LCDK2004-3 or LCDK2005-3 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 2
- Power adapter w/ power cord (for receiver) x 2
- LCD-A3001 6ft Combo KVM cable for receiver box x 2



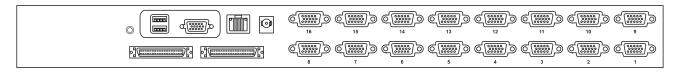
LCDK2004-4 / LCDK2005-4

- LCDK2004-4 or LCDK2005-4 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord ( for KVM ) x 1
- Receiver box for remote console x 3
- Power adapter w/ power cord (for receiver) x 3
- LCD-A3001 6ft Combo KVM cable for receiver box x 3

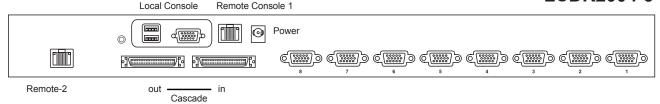
#### LCDK2004-2



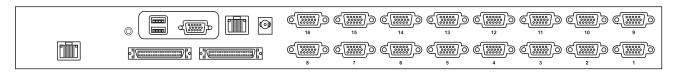
#### LCDK2005-2



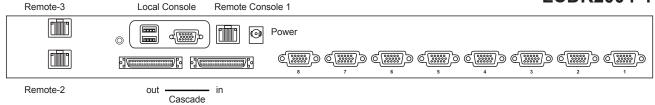
#### LCDK2004-3



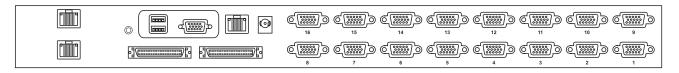
#### LCDK2005-3

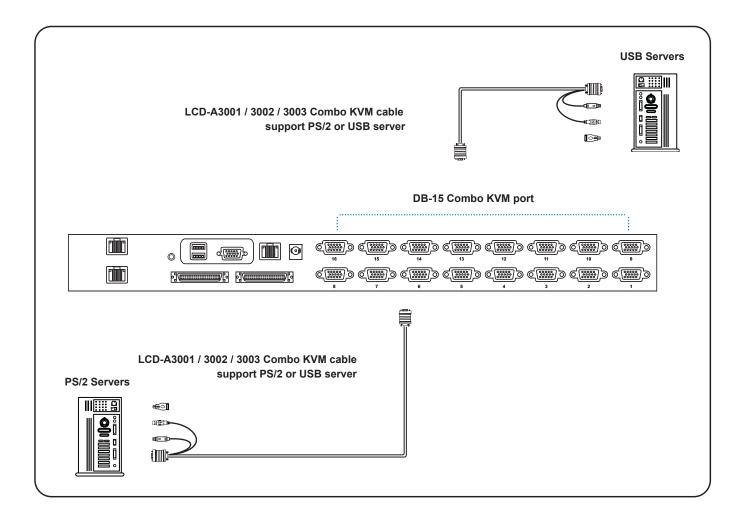


#### LCDK2004-4



#### LCDK2005-4



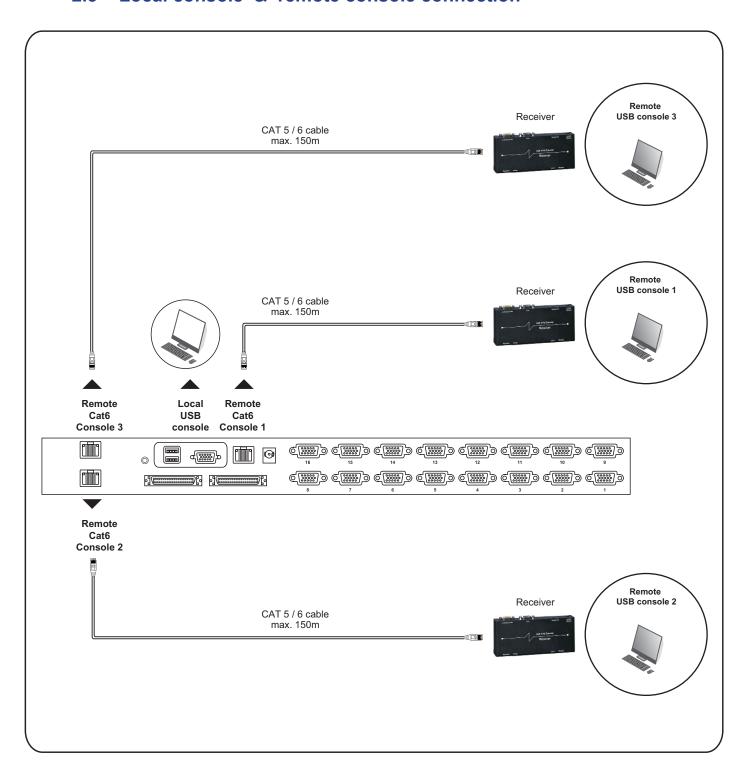


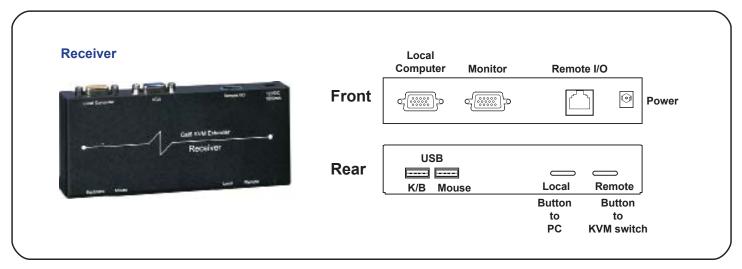
#### LCD-A3001 / 3002 / 3003

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server



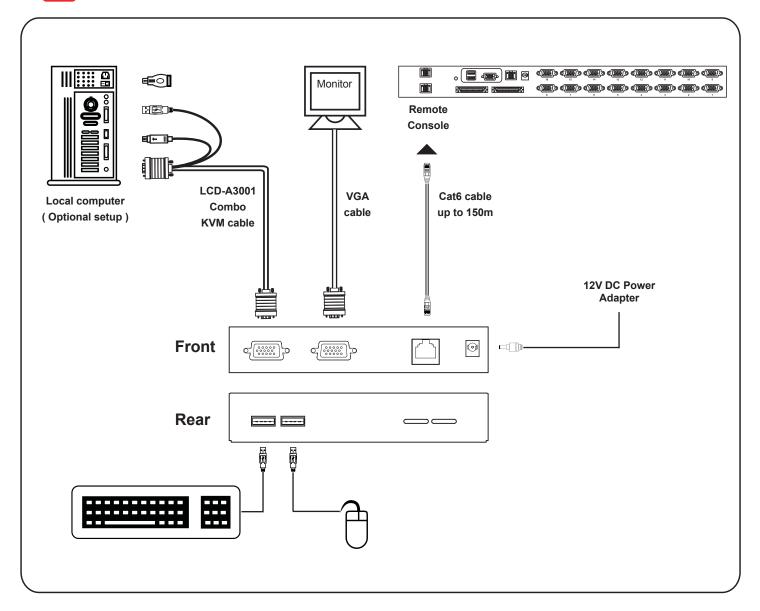
#### < 2.3 > Local console & remote console connection Matrix DB-15 KVM







The receiver provides a hotkey function for remote console. Please refer to P.19



- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with LCD-A1024 cascade cable.



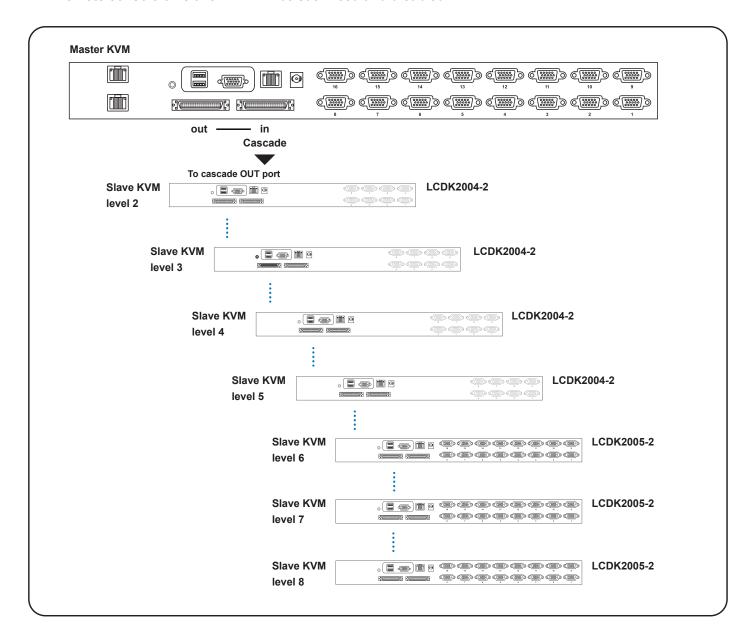
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When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





#### LCD-A1024

8ft Matrix KVM cascade cable

LCDK2004-2 / 3 / 4 LCDK2005-2 / 3 / 4

KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector
Connectivity: Combo 4-in-1 KVM cable

up to 6, 10 & 15 feet

**■** Local Console

Monitor port: 1 x DB-15 VGA ( Up to 1920 x 1080 / 1920 x 1200 ) Keyboard & mouse port: 2 x USB type connector for keyboard & mouse

Cat6 Remote Console

Number of remote port: 1 for LCDK2004-2, LCDK2005-2

2 for LCDK2004-3, LCDK2005-3 3 for LCDK2004-4, LCDK2005-4 DB15-pin VGA, up to 1600 x 1200

Keyboard & mouse port: 2 x USB type connector for keyboard & mouse Remote I/O: RJ45 via Cat5 / Cat6 cable up to 500 feet

■ Expansion: Up to 240 servers by 8-level cascade

Compatibility

Monitor port:

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

Power

Input: AC power adapter

Consumption: Max. 48 Watt, Standby 5 Watt

Regulatory

Safety: cUL, FCC & CE certified

Environment: RoHS2 & REACH compliant

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 171 x 44 mm / 17.4 x 6.7 x 1.73 inch

Net weight: 3 kg / 6.5 lb

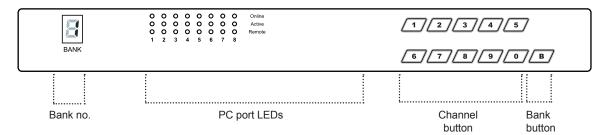
#### 3.1 KVM Button

#### **Power ON**

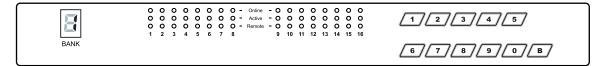
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

#### **Front Panel - Port LED Indications**

#### 8 ports



#### 16 ports



7-Segment BANK LED indication
Online: Blue LED on indicating a PC is connecting to the port
Active: Green LED on indicating a selected channel
Remote: Orange LED on indicating the port is selecting by IP / remote console
Press to select channel from 01 to 16
Select the bank from 1 to 8

#### 3.2 Password

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

- 1. 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
- 2. 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

#### 3.3 KVM OSD

#### **OSD Menu** PORT NAME BANK: 1 F1: MENU 01☼ SYSTEM 01 🖘 F2: LOGOUT 02☼ SYSTEM 02 F3: PREV ESC : QUIT 03☼ SYSTEM 03 04☼ SYSTEM **ENTER: COMPLETE** 04 05☆ SYSTEM **★/↓**: SELECT 05 06☆ SYSTEM PqUp/PqDn: 06 07☆ SYSTEM **BANK SELECT** 07 08☼ SYSTEM 80 USER: SUPERVISOR SCAN TIME : 10 SEC FW1V3 **OSD** operation next to the system name The PC is powered on next to the system name The PC is selected Access F1 MAIN MENU F1 F2 Logout the OSD menu F3 Previous menu Cancel / Quit **Esc** Complete / Switch to selected port **Enter 1**/↓ Switch to previous or next port PgUp/PgDn Switch to previous bank or next bank Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 1/2/3/4 Remark: Display port 17 ~ 32 for 32 port model only

F1 Main Menu	MAIN MENU SELECT OPTION: 01 LANGUAGE	₹) X
	02 PORT NAME EDIT 03 PORT SEARCH	
	04 USER SECURITY 05 ACCESS LIST	
	06 HOTKEY	
	07 TIME SETTINGS 08 OSD MOUSE	
	08 OSD MOOSE	
01 LANGUAGE	OSD language change	
02 PORT NAME EDIT	Define port name	
03 PORT SEARCH	Quick searching by port name	
04 USER SECURITY	Change password	
05 ACCESS LIST	Define user access authority	
06 HOTKEY	Change hotkey	
07 TIME SETTINGS	Modify scan display time interval	
08 OSD MOUSE	Modify OSD mouse speed	

#### 3.4 KVM Hotkey & Remote Console Hotkey Matrix DB-15 KVM Usage

<b>Local Console Hotke</b>	y	Function
Scroll Lock + Scroll Lock +	Space Bar	Calling OSD menu
Right-button mouse + Esc		Calling OSD menu
Scroll Lock + Scroll Lock +	<b>†</b>	Switch to previous port
Scroll Lock + Scroll Lock +	•	Switch to next port
Scroll Lock + Scroll Lock +	PgUp / PgDn	Switch to previous bank or next bank
Scroll Lock + Scroll Lock +	Bank no. + Port no.	Switch to specific port
Scroll Lock + Scroll Lock +	В	Turn the buzzer ON and OFF * Default the buzzer is ON
Scroll Lock + Scroll Lock +	Р	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 + Scroll Lock + Scroll Lock +	R U	default

Remarks: ■ Example of "Scroll Lock + Scroll Lock + Bank no. + Port no."

- Bank No.: 1 to 8 - Port No.: 01 to 16

- e.g. Bank 1 Port 4 : Scroll Lock + Scroll Lock + 1 + 0 + 4

- e.g. Bank 2 Port 16: Scroll Lock + Scroll Lock + 2 + 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, PgUp, PgDn, 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	

