

Toll Free: 1-888-865-6888 Tel: 510-226-8368 Fax: 510-226-8968 Email: sales@RackmountMart.com

User Manual







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.
 - $\hfill\square$ 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.
 - $\hfill\square$ Use of supplies or parts not meeting our specifications.
 - \Box 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 > Combo DB-15 IP 2-console KVM

LCDK1038 / 1039

1.1	Package contents	P.1
1.2	KVM port connection	P.2
1.3	IP & Local console connection	P.2
1.4	IP console setting	P.3
1.5	KVM Cascade	P.4
1.6	Specifications	P.5

< Part 2 > Combo DB-15 2-console KVM

	LCDK1024 / 1025	
2.1	Package contents	P.6
2.2	KVM port connection	P.7
2.3	Remote & Local console connection	P.7 - 8
2.4	KVM Cascade	P.9
2.5	Specifications	P.10

< Part 3 > Combo DB-15 KVM

	LCDK1020 / 1021	
3.1	Package contents	P.11
3.2	KVM port connection	P.12
3.3	KVM Cascade	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

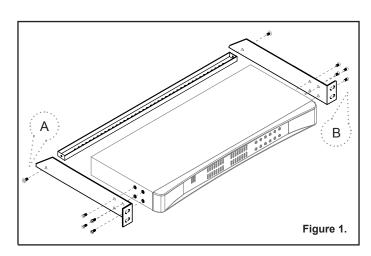
Before Installation

- 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







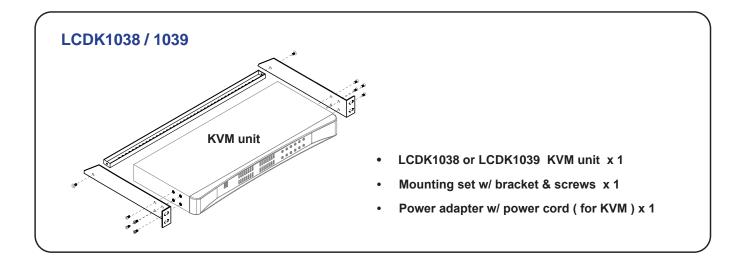
M4 x 10 mm

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

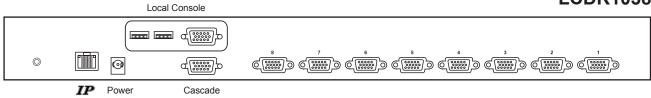


< Part 1 > Combo DB-15 IP KVM

< 1.1 > Package Contents



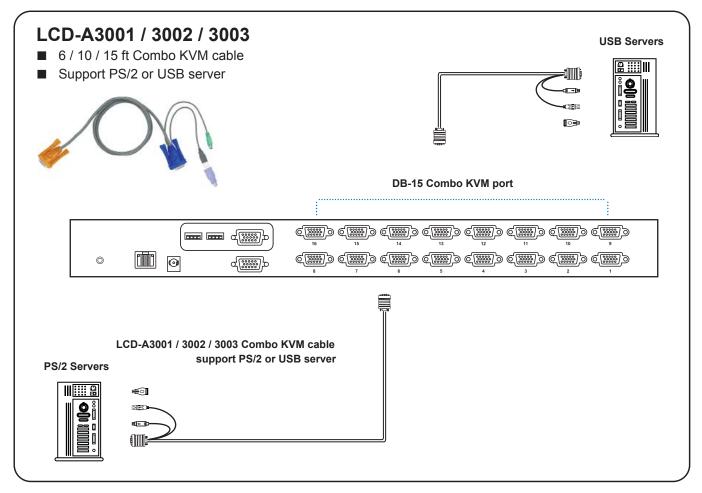
LCDK1038



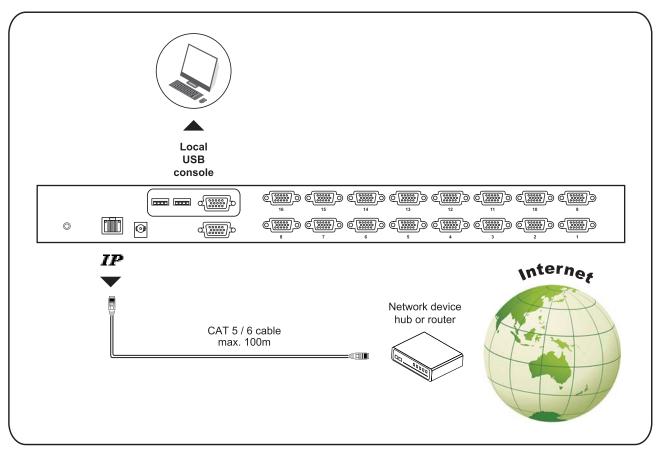
LCDK1039

				C)O	C	C	C	Q (00000) O 12	C)	C)O	¢) °	
0		0	مر	¢)o 1	¢	6 6	6 5	و اینین 4	و اینیک 3	¢	(۱	
	IP											

< 1.2 > KVM port connection



< 1.3 > IP & Local console connection



< 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.

Device		Network Configuration	
Device MAC address	C8:EE:08:00:00:7E	IP auto configuration	None 😪
	Refresh Devices	IP address	192.168.1.22
Device Type		Subnet mask	255.255.255.0
Enable WLAN Config	uration (WLAN Devices only)	Gateway	0.0.0.0
Authentication		Wireless LAN Configuration	1
Super user login		Wireless LAN ESSID	×
Super user password	?		Enable WEP encryption
New super user password		Wireless LAN WEP Key	
New password (confirm)		Query Device	Setup Device
		ОК	Cancel Help

- 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-1602 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)

Authenticat	e Username and Password !
Username	
Password	
	Login

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

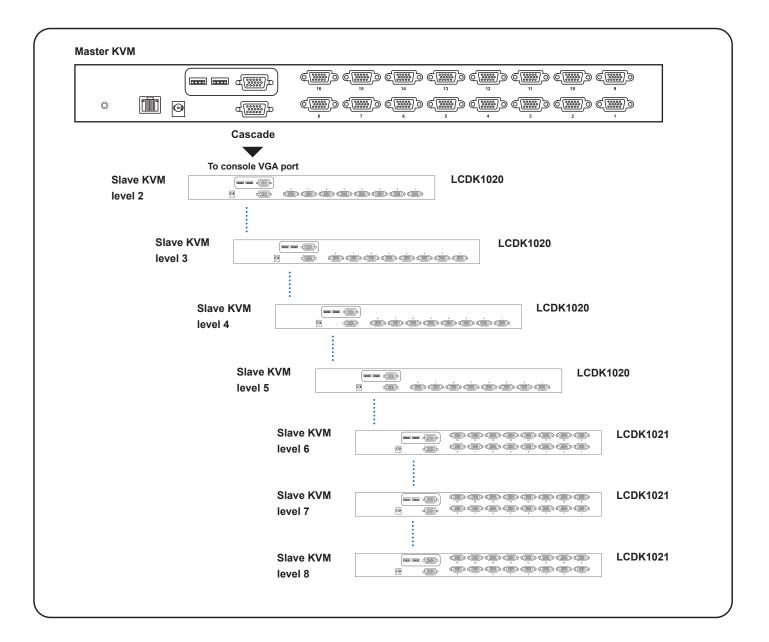
< 1.5 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with LCD-A1019 cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of LCDK1020 / 1021.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).





LCD-A1019

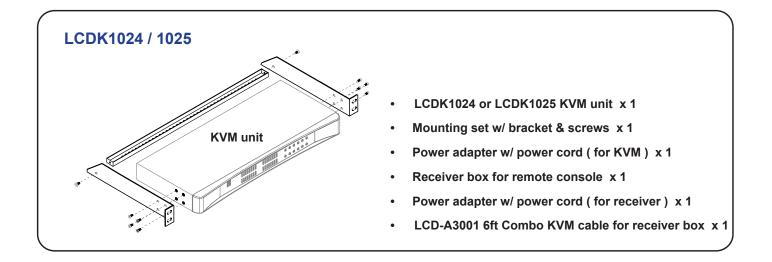
6ft Combo KVM cascade cable

< 1.6 > Specifications

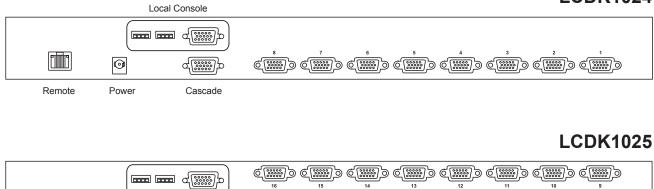
	LCDK 1038 / 1039
KVM Port	
Number of ports:	8 or 16
Connector:	DB-15 combo connector
Connectivity:	Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet
Local Console	
Graphic connector:	1 x DB-15 VGA
Resolution:	Up to 1920 x 1080 / 1920 x 1200
Input device:	2 x USB type A for keyboard & mouse
IP Remote Console	
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
Expansion:	Up to 128 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:	Auto sensing 100 to 240VAC, 50 / 60 Hz
Option DC:	12V / 24V / 48V DC input
Consumption:	Max. 24 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:	2.3 kg / 5.1 lb (IP-802) 2.5 kg / 5.5 lb (IP-1602)

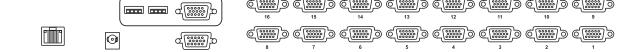
Part 2. Combo DB-15 2-console KVM



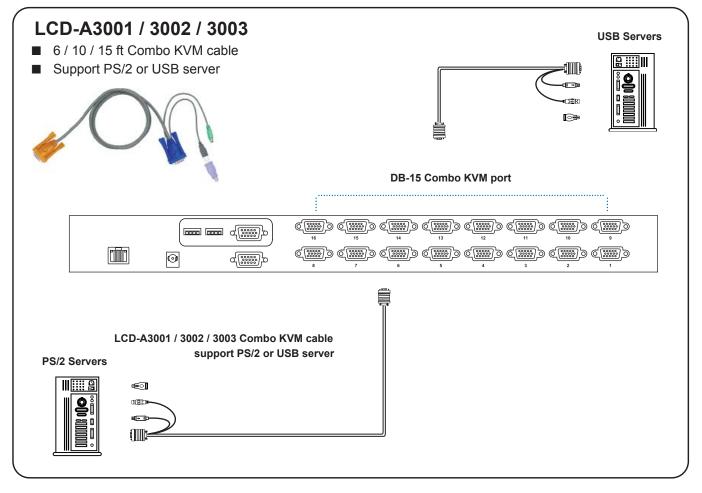


LCDK1024

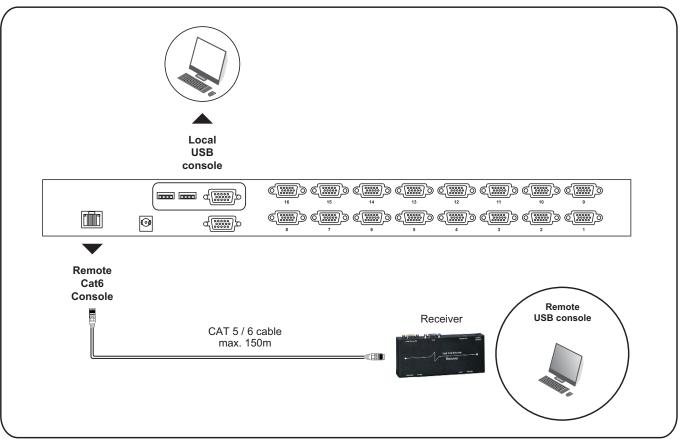




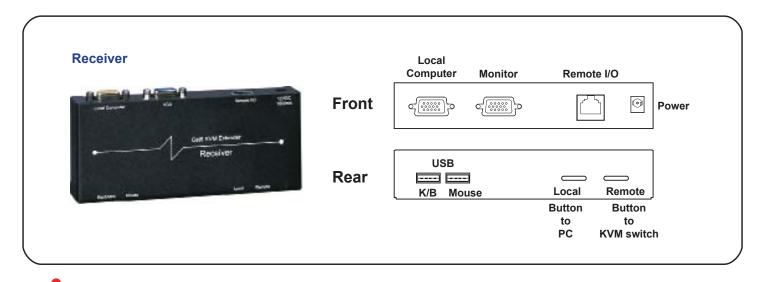
< 2.2 > KVM port connection



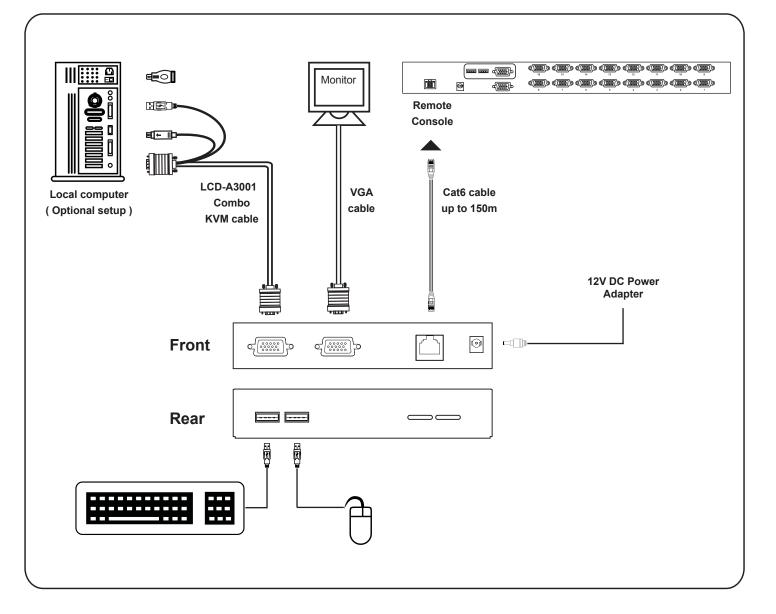
< 2.3 > Remote & Local console connection



How to use a receiver to connect a remote console Combo DB-15 2-console KVM



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



< 2.4 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with LCD-A1019 cascade cable.



4

Cascaded KVMs from level 2 to 8 must be the models of LCDK1020 / 1021.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).

	Cascade	9				
	To console VG	A port				
Slave KVM)	د الله	LCDK1020		
level 2						
Slave K	: /M					
level 3			وشاه وشاه وشاه وشاه و		CDK1020	
	Slave KVM	•			LCDK10	20
	level 4			رشه درشه در شه در شه در ش		
	Slave K level 5	VM	() () () () () () () () () () () () () (• «		LCDK1020
		Slave KVM	:			LCDK1021
		level 6	0 •			
		Slave KVM level 7		() a a a	ه درسته درسته درسته درست د رسته درسته درسته درست	LCDK1021
		ievei /			6 4 3 2	·
		Slave KVM				())))
		level 8		<u>a .</u>		• I CDK1021

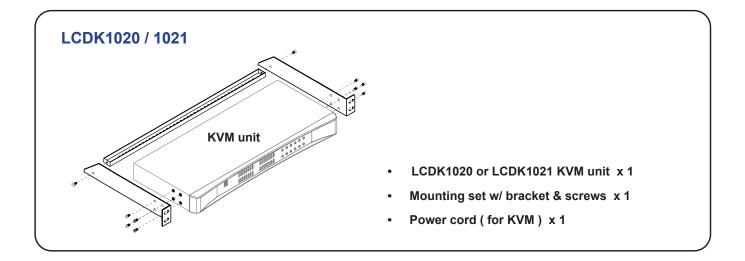


LCD-A1019

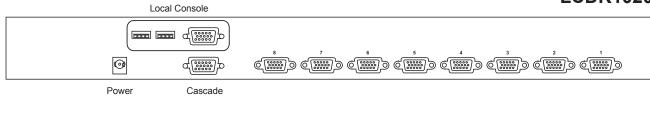
■ 6ft Combo KVM cascade cable

< 2.5 > Specifications

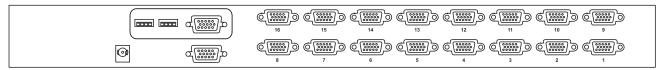
	LCDK1024 / 1025
KVM Port	
Number of ports:	8 or 16
Connector:	DB-15 combo connector
Connectivity:	Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet
Local Console	
Graphic connector:	1 x DB-15 VGA
Resolution:	Up to 1920 x 1080 / 1920 x 1200
Input device:	2 x USB type A for keyboard & mouse
Remote Console	
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
Expansion:	Up to 128 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:	Auto sensing 100 to 240VAC, 50 / 60 Hz
Option DC:	12V / 24V / 48V DC input
Consumption:	Max. 24 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:	2.3 kg / 5.1 lb (CV-802) 2.5 kg / 5.5 lb (CV-1602)



LCDK1020

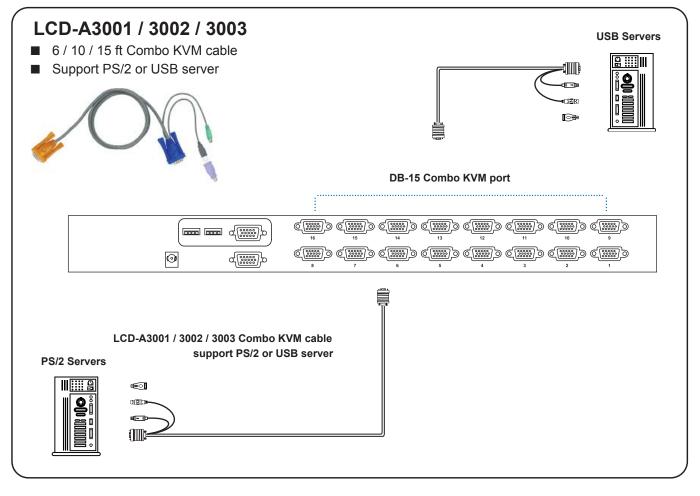


LCDK1021



< 3.2 > KVM port connection

Combo DB-15 KVM



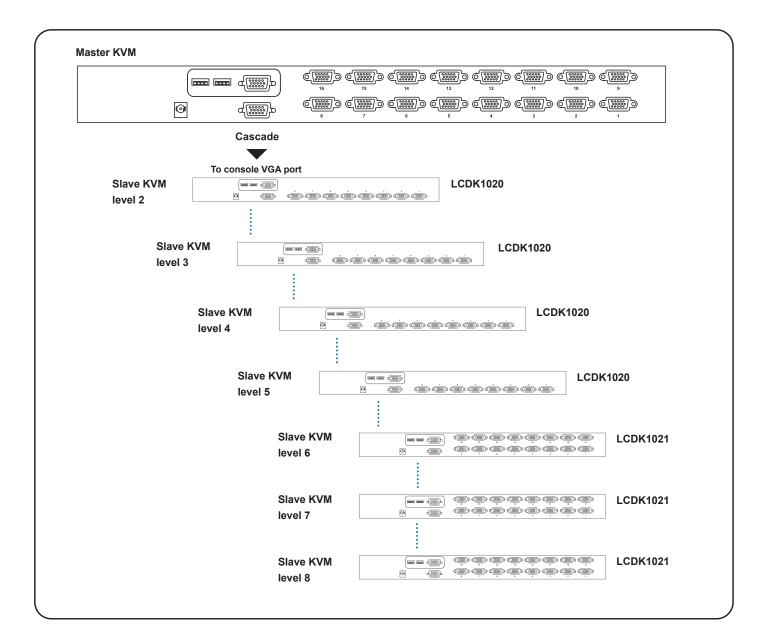
< 3.3 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with LCD-A1019 cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of LCDK1020 / 1021.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).





LCD-A1019

6ft Combo KVM cascade cable

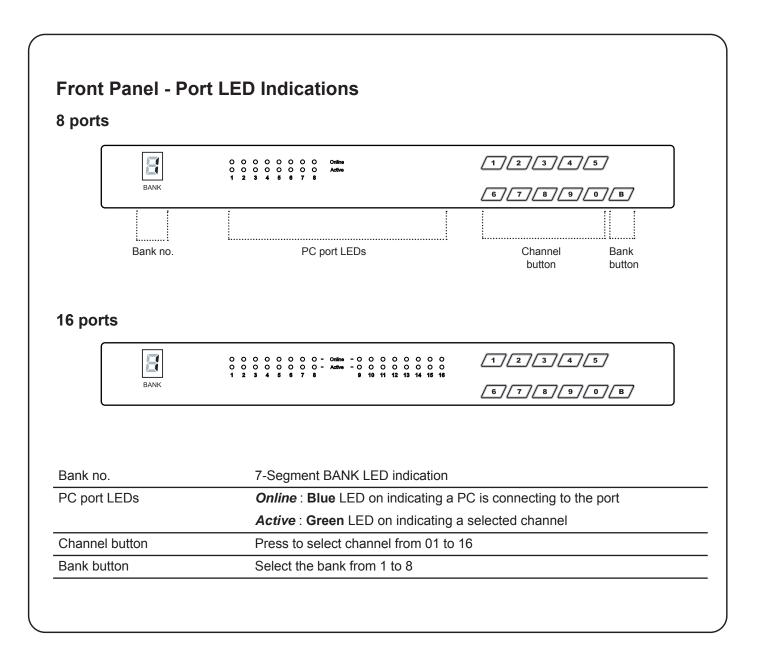
< 3.4 > Specifications

l	_CDK1020 / 1021
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	
Graphic connector:	1 x DB-15 VGA
Resolution:	Up to 1920 x 1080 / 1920 x 1200
Input device:	2 x USB type A for keyboard & mouse
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
Expansion:	Up to 128 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:	Auto sensing 100 to 240VAC, 50 / 60 Hz
Option DC:	12V / 24V / 48V DC input
Consumption:	Max. 24 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:	2.4 kg / 5.3 lb (CV-S801) 2.6 kg / 5.7 lb (CV-S1601)

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



4.2 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)
- 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
- 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. 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

4.3 KVM OSD

OSD Menu	PORT NAME BANK:1 01< ∞ 01☆ SYSTEM 01< ∞ 02☆ SYSTEM 02 03☆ SYSTEM 03 04☆ SYSTEM 04 05☆ SYSTEM 05 06☆ SYSTEM 06 07☆ SYSTEM 07 08☆ SYSTEM 08
OSD operation	SCAN TIME : 10 SEC FW1V3
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
★ / ↓	Switch to previous or next port
PgUp/PgDn	Switch to previous bank or next bank
1/2/3/4	Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 Remark: Display port 17 ~ 32 for 32 port model only

1 Main Menu	MAIN MENU 🖘 X	
	SELECT OPTION :	
	01 LANGUAGE	
	02 PORT NAME EDIT 03 PORT SEARCH	
	04 USER SECURITY	
	05 ACCESS LIST	
	06 HOTKEY 07 TIME SETTINGS	
	08 OSD MOUSE	
)1 LANGUAGE	OSD language change	
2 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	

4.4 KVM Hotkey & Remote Console Hotkey

Combo 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 + 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 + 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 + 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	

4.5 DC Power 12V, 24V, 48V Input

		+ ○⊕⊕○	
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.

All brand names, logo and registered trademarks are properties of their respective owners.

Copyright 2013 Synergy Global Technology Inc. All rights reserved.