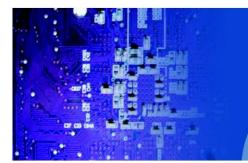


1U Rackmount LCD Keyboard Drawer

User Manual

KDX81712: 1U Rackmount 17" 1920x1200 WUXGA Industrial Monitor Keyboard Drawer



1U Rackmount LCD Keyboard Drawer

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.
 - $\hfill\Box$ 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.

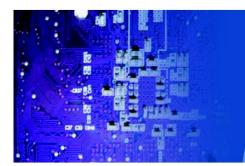




1U Rackmount LCD Keyboard Drawer

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1U Rackmount LCD Keyboard Drawer

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.

How To Clean Your LCD Monitor



Caution:

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps:

- ① Disconnect the power cord.
- ② Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

- ① Disconnect the power cord.
- Spray a small amount of non-abrasive cleanser on a microfiber cloth.



Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

- 3 Gently wipe the surface. Use as little pressure as possible.
- Wait until your monitor is completely dry before plugging it in and powering it up.



< Part 1 >

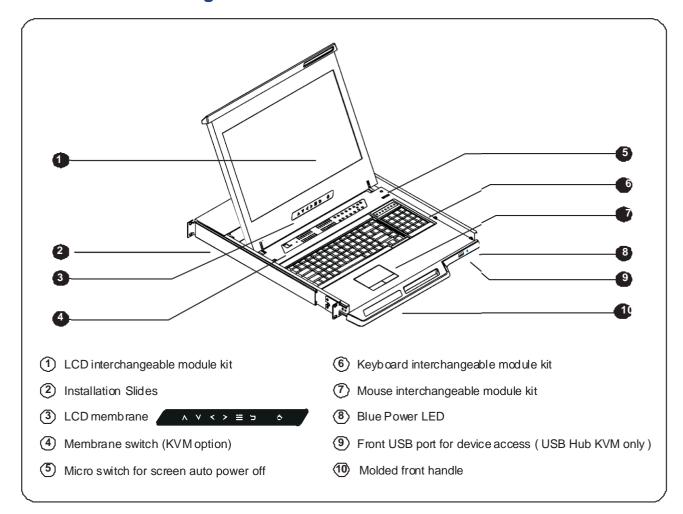
< 1.1 > Package Content



KDX81712 unit X 1

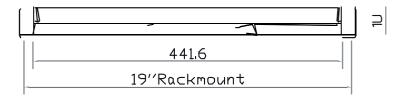
- 6ft DVI-D console cable X 1
- Power cord X1
- M6 screw, cage nut & cup washer X8

< 1.2 > Structure Diagram



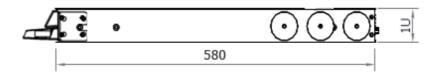
< 1.2 > Dimension

Front View

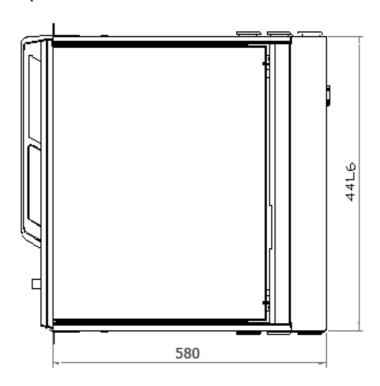


Side View

 $\begin{array}{c} \text{UNIT:mm} \\ \text{1mm} = 0.03937 \text{ inch} \end{array}$

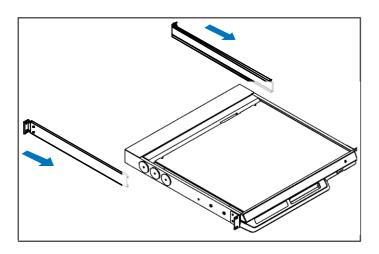


Top View



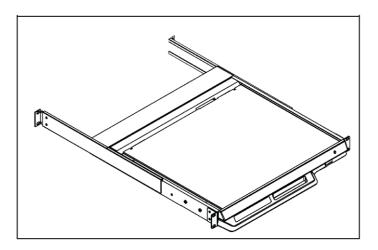
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
KDX81712	441.6 x 580 x 44 mm	590 x 823 x 140 mm	15 kg	19 kg
	17.4 x 22.8 x 1.73"	23.2 x 32.4 x 5.5"	33 lb	42 lb

< 1.3 > Installation - How to install Installation Slides



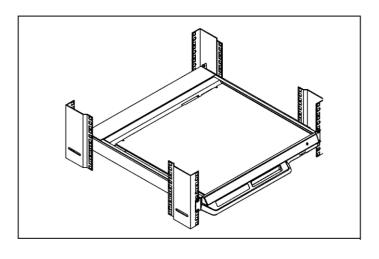
Step

Insert the left and right rear mounting brackets into the LCD console drawer.



Step 2

- Measure the depth of the front and rear mounting rails.
- l Align each rear mounting bracket to a suitable length.



Step

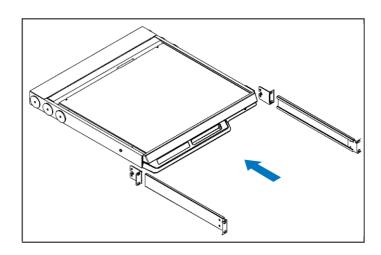
Complete the installation

Fix the LCD console drawer into the rack.



M6 screw, cage nut & cup washer x 8 are provided.

< 1.3 > Installation - How to install 2 post rack brackets

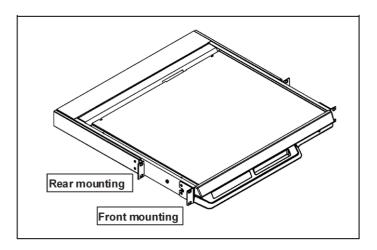




- Release front mounting ears before applying 2 post rack brackets.
- Insert rear mounting brackets into the LCD console drawer.

Option

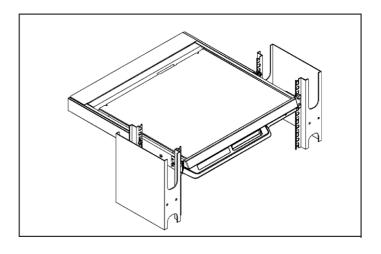
Model: MB-751-12



Step



l Align each rear mounting bracket to a suitable length.



Step (



Complete the installation

Fix the LCD console drawer into the 2 post rack.



M6 screw, cage nut & cup washer x 8 are not provided.

< 1.3 > Installation- How to use the drawer



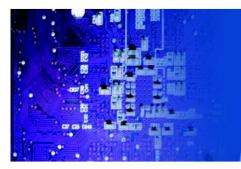
Hold the handle and slide out the drawer.



Flip up the LCD to a suitable angle.



l Operate the LCD console drawer.



1U Rackmount LCD Keyboard Drawer

< Part 2 >

< 2.1 > Product Specifications

LCD	Panel Size (diagonal)	17.1-inch Widescreen TFT color LCD
Panel	Display pixel (dots x lines)	1920 x 1200
	Brightness (typ.)	210
	Contrast Ratio (typ.)	600:1
	Color	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	65/65/55/55
	Response Time (ms)	30
	Dot pitch (mm)	0.191
	Display Area (mm)	367.20H x 229.50V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	20,000

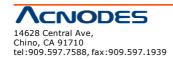
Video	Digital	DVI	DVI-D, TMDS single link
Connectivity			

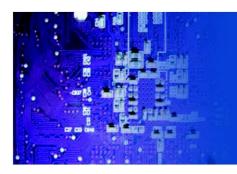
Audio	Audio Input	Connector	3.5mm stereo jack
Connectivity		Impedance / Power level	30kΩ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kΩ / 2.8V
	Speaker Output	Power	2 x 2W

*When the audio output is connected, speaker output is OFF

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	34W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory Safety Approval FCC & CE





1U Rackmount LCD Keyboard Drawer

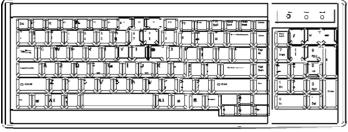
Environmental Conditions	Operating	Temperature Humidity	0 to 50°C degree 20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz1G RMS random

Physical Specification	Product (W x D x H)	441.6 x 580 x 44 mm 17.4 x 22.8 x 1.73 inch
	Packing (W x D x H)	590 x 823 x 140 mm
	. soming (1. // 2 // 1. /	23.2 x 32.4 x 5.5 inch
	Net Weight	15 kgs / 33 lbs
	Gross Weight	19 kgs / 42 lbs

Applicable	DVI-D / VGA Input	PC Signal	1920 x 1200 x 60Hz
Format			1920 x 1080 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz
	HDMI Input	PC Signal	Same as VGA
		Video Signal	1080p : 60Hz
			720p : 50 / 60Hz
			480p : 60Hz
			576p : 50Hz
		Audio Signal	2ch Linear PCM (32 / 44.1 / 48 KHz)

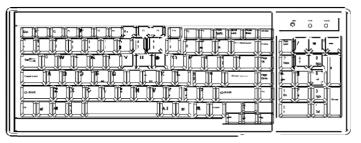
< 2.2 > Keyboard / Mouse Specifications

Ge G keyboard integrated with touchpad











Keyforce	55 ± 5g
Travelling distance 3 ± 0.3mm	
Switch life > 10 million life cycle time	
Software support	MS Windows 7 / 2008 / 2003 / 2000 / XP / ME / 98 / DOC Linux / Mac

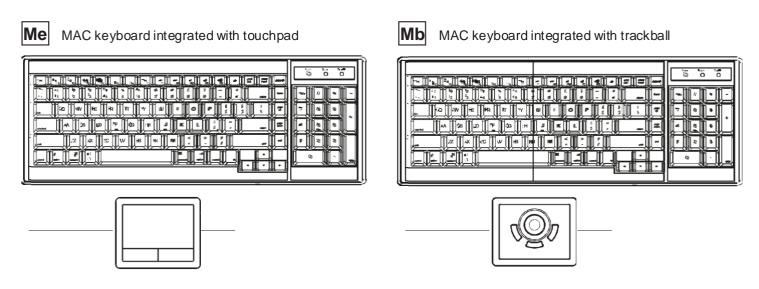
Supporting layouts

America



America	United States				
ГМГА	United Kingdom	Germany	France	Spain	Norway
EMEA	Italy	Russia	Switzerland	Netherlands	Portugal
Asia	* China	Japan	Korea	Arabia	C* Turkey

< 2.2 > MAC Keyboard / Mouse Options

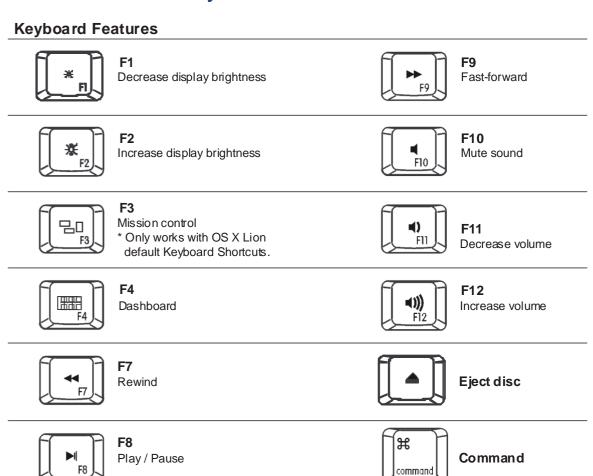


Supporting layouts

America

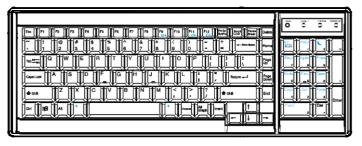


How to Use "MAC" Keyboard

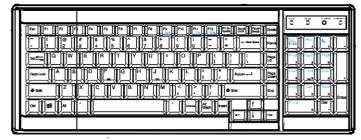


< 2.2 > SUN Keyboard / Mouse Options

Se S keyboard integrated with touchpad







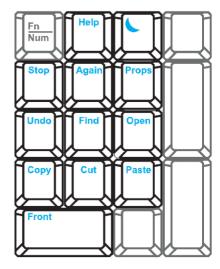




S keyboard integrated with touchpad / trackball

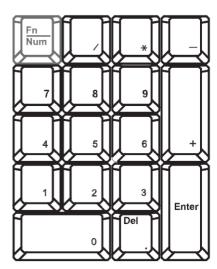
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use "S" Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode



Num LED in Green mode

Key pad behaves as a normalkey pad mode

Audio / Display Keys

* Please ask your supplier for full details



Audio: Mute
Display: Degauss



F 11

Audio : Decrease volume Display : Decrease contrast



F12

Audio: Increase volume Display: Increase contrast

< 2.3 > On-screen Display Operation (OSD)



Membrane Switch	Function
d	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
$\wedge $	Scroll through menu options and adjust the displayed control
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

Remark: All LED touch buttons in WHITE light.

The LED of **Power** touch button will flash continuously when there is no signal input.

(1) All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** (5))

(2) Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power** ())



Pictu re

Picture mode: Standard / Vivid / Soft / User mode to choose Brightness: Adjust background black level of the screen image Contrast: Adjust the difference between the image background

(black level) and the foreground (white level)

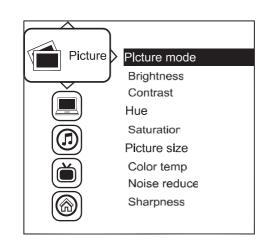
Hue: Adjust the screen hue value

Saturation: Adjust the saturation of the image color

Picture size: Adjust the image size

Color temp: Standard / Cool / Warm / User to choose

Noise reduce: Reduce the noise of the image Sharpness: Adjust the image from weak to sharp



< 2.3 > On-screen Display Operation (OSD)

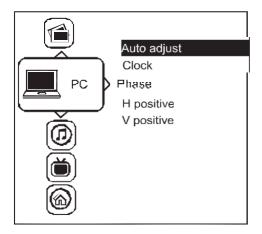
2 PC

Auto adjust: Automatically adjust sizes, centers and fine tunes the

video signal to eliminate waviness and distortion.

Clock : Adjust the clock value
Phase : Adjust the phase value

H. Position : Align the screen image left or rightV. Position : Align the screen image up or down



(3) Audio

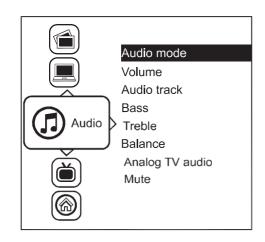
Audio mode: Movie / Voice / Normal / Music mode to choose

Volume: Adjust the volume of sound
Bass: Set the value of bass sound
Treble: Set the value of treble sound

Balance: Set the balance value of treble and bass sound

Analog TV audio: Set the value of analog TV audio sound

Mute: Turn off the surrounding sound



4 MISC

Language: Select the language in which the OSD menu is

displayed - English

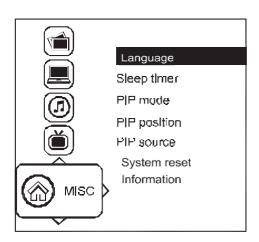
Sleep timer: Set the off time

PIP mode: Adjust picture in picture setting

PIP position : Enter into PIP position

PIP source : Enter into the Sub source and sound source System reset : Return the adjustment back to factory setting

Information: Select for Help



< 2.4 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

< 2.4.1 > Picture in Picture (PIP)

Mode

Display the Subscreen in the Main screen.

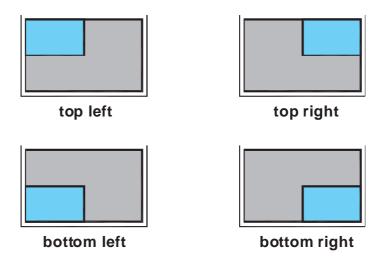
OSD Menu > MISC > PIP Mode > Large / Small / OFF



Position

Adjust the position of the Subscreen (top left, bottom left, top right, bottom right)

OSD Menu > MISC > PIP Position > top left / top right / bottom left / bottom right

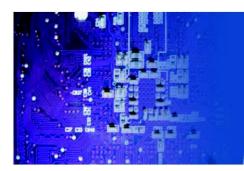


Size

Adjust the size of the Subscreen (Large / Small)
OSD Menu > MISC > PIP Mode > Large / Small

Size of Sub screen

LCD Monitor	Large Sub screen	Small Sub screen
1920 x 1200	552 x 414	480 x 360
1920 x 1080	552 x 414	480 x 360
1440 x 900	414 x 310	360 x 270
1366 x 768	392 x 294	340 x 254
1280 x 1024	368 x 276	320 x 240



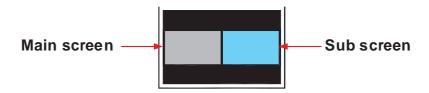
1U Rackmount LCD Keyboard Drawer

< 2.4.2 > Picture By Picture (PBP)

Mode

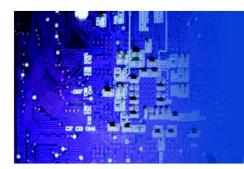
Display the Sub screen next to the Main screen.

OSD Menu > MISC > PIP Mode > PBP



Size

LCD Monitor	Main / Sub screen	
1920 x 1200	955 x 716	
1920 x 1080	955 x 716	
1440 x 900	715 x 536	
1366 x 768	678 x 508	
1280 x 1024	635 x 476	



1U Rackmount LCD Keyboard Drawer

< Part 3> <3.1 > Options :

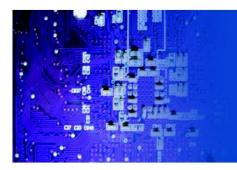
- Audio (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)

< 3.2 > Options : DC Power

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%

*** For DC power option:

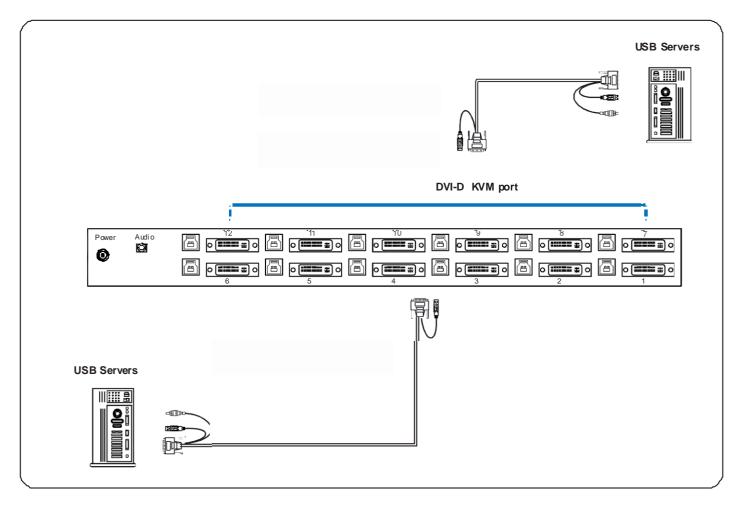
(1) Option excludes 1 x power cord and 1 x AC power adapter.



1U Rackmount LCD Keyboard Drawer

<Part 4> KVM Integration

< 4.1 > KVM port connection



DVI KVM Cable

6 feet DVI KVM cable 15 feet DVI KVM cable

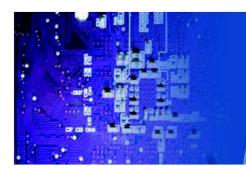
(Server end : DVI-D + USB + Audio) (KVM port : DVI-D + USB3.0)





IP console, remote console, daisy-chain and OSD menu are NOT available for this model.





1U Rackmount LCD Keyboard Drawer

< 4.2 > Specifications

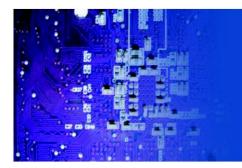
KVD1201 KVM Port Number of ports: 12 Connector: DVI-D connector USB 3.0 connector (combined for keyboard, mouse & audio) Combo 4-in-1, KVM cable, 6 or 15 feet Connectivity: **Audio Out** 1 x 3.5mm stereo audio Management Front button & keyboard hotkey PC Selection: Compatibility Multi-platform: Mix PCs, 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. 48 Watt, Standby 5 Watt Regulatory Approval: FCC, CE **Environmental** 0 to 50°C Operating: Storage: -5 to 60°C Relative humidity: 90%, non-condensing

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

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

Shock:

Vibration:



1U Rackmount LCD Keyboard Drawer

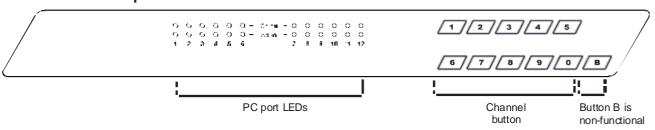
4.3 KVM Button

Power ON

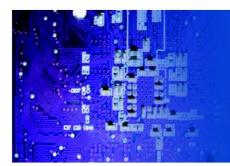
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

Front Panel - Port LED Indications

DVI-D KVM 12 ports



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 12	



1U Rackmount LCD Keyboard Drawer

4.4 KVM Hotkey

Hotkey

Scroll Lock + Scroll Lock +

Scroll Lock + Scroll Lock + ■

Scroll Lock + Scroll Lock + Port no.

Scroll Lock + Scroll Lock + S

Scroll Lock + Scroll Lock + B

Function

Switch to previous port

Switch to next port

Switch to specific port

Auto scan for powered on PC

Enable / Disable beeper sound

Remarks:

Example of "Scroll Lock + Scroll Lock + Port no."

- Port No.: 01 to 12

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

- e.g. Port 12: Scroll Lock + Scroll Lock + 1 + 2

You must press the hotkey within 2 seconds

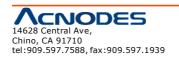
A beep sound will be heard for successful entering

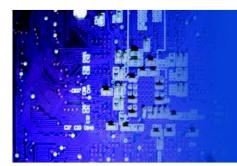
Hotkey Label

DVI KVM Hotkey SL = Scroll Lock

Auto Scan ! \$L + \$L + \$ Change Port : \$L + \$L + Up / Down Arrow

Buzzer ON/OFF: SL + SL + B Select Porl : SL + SL + Port No.





1U Rackmount LCD Keyboard Drawer

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:

l Package does not include power cord