

# RKVM Dslide Series

## User's Guide



### Models

#### RKVM-17-Dslide

- 1U Dual Slide
- 17" Screen Size

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## Section 1 – Getting Started

### 1.1 Important Safegaurds

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

#### **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.

## 1.2 Safety Instructions

- 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° C (104° F).
- 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 drawer 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 labelled 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.

## 1.3 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.

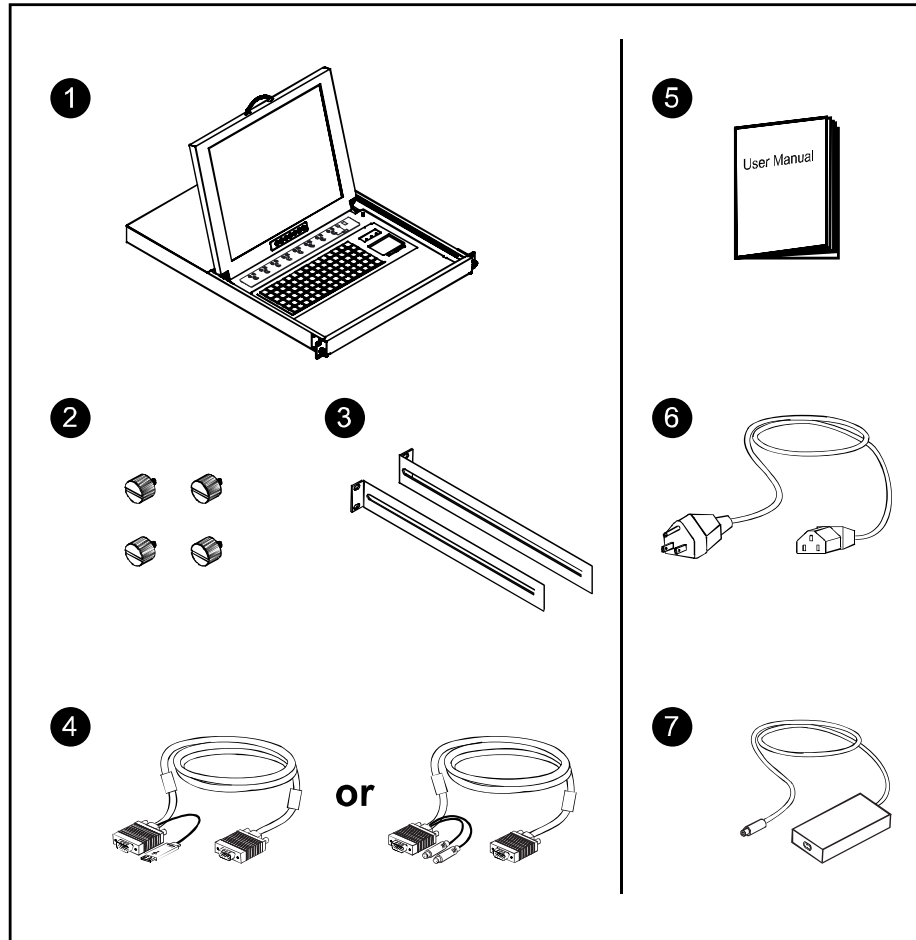
Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

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.

## 1.4 Package Contents



- ① LCD Keyboard drawer x 1 pc,
- ② Fasteners for rear L-bracket x 4 pcs
- ③ 330mm rear mounting L-bracket x 1 pair
  - Mounting depth-adjustable from 390mm to 920mm
- ④ CB-6 2-in-1 USB keyboard cable x 1 pc **or**  
CD-6 3-in-1 PS/2 keyboard cable x 1 pc
- ⑤ User manual x 1 pc
- ⑥ Power cord x 1 pc
- ⑦ Auto Switch power adapter (for external power version) x 1 pc

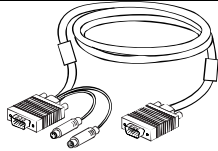
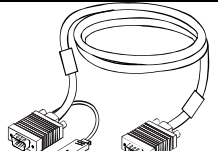
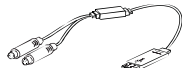
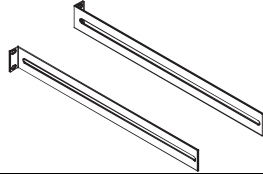
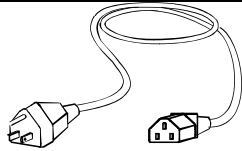
## 1.5 Before Installation

- It is very important to locate the Rackmount Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the Rackmount Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the Rackmount Keyboard Drawer to the related facilities should be well considers too.

## 1.6 Unpacking

The LCD Keyboard Drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

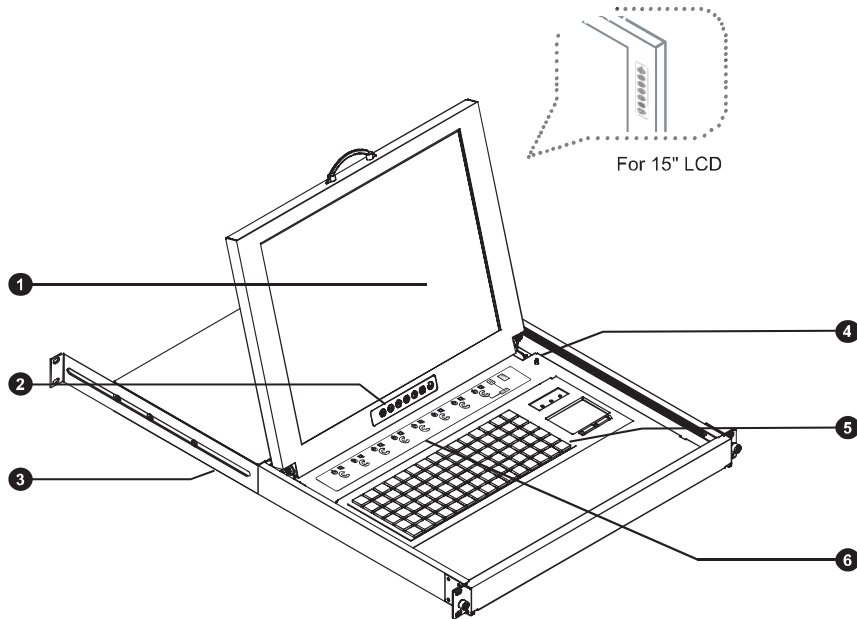
## 1.7 Optional Accessories

<p><b>PS/2 3-in-1 KVM cable</b></p> <p>CD-6 6 feet            CD-10 10 feet            CD-15 15 feet            CD-33 33 feet</p>	
<p><b>USB 2-in-1 KVM cable</b></p> <p>CB-6 6 feet            CB-10 10 feet            CB-15 15 feet</p>	
<p><b>SUN / iMAC USB to PS/2 adapter</b></p> <p>SUN-31</p>	
<p><b>Extended rear mounting L-bracket</b></p> <p>430mm (16.9") extended rear L-bracket up to 1020mm            *Extended rear L-bracket in tailor-made length on request</p>	
<p><b>Power Cord</b></p> <p>IEC power cord            NEMA 5-15 power cord (US)            BS 1363 power cord (UK)            CEE 7/4 power cord (German)            AS 3112 power cord (Australia)</p>	

## 1.8 Peripheral Products

Item	Description
<b>DB-15 KVM</b>	8 / 16-port IP PS/2 KVM 8 / 16-port two console PS/2 KVM 4 / 8 / 16-port PS/2 KVM 8 / 16-port USB KVM
<b>Cat5 KVM</b>	16 / 32-port IP Cat5 KVM 16 / 32-port two console Cat5 KVM 16 / 32-port high density Cat5 KVM
<b>KVM Extender</b>	IP KVM extender Cat5 PS/2 KVM Extender Cat5 USB KVM Extender

## 1.9 Structure Diagram



① SAMSUNG Class A TFT LCD Panel

② Adjustable rear mounting L-bracket

③ LCD membrane button

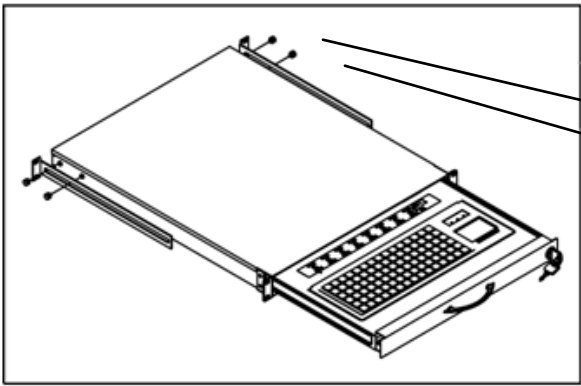
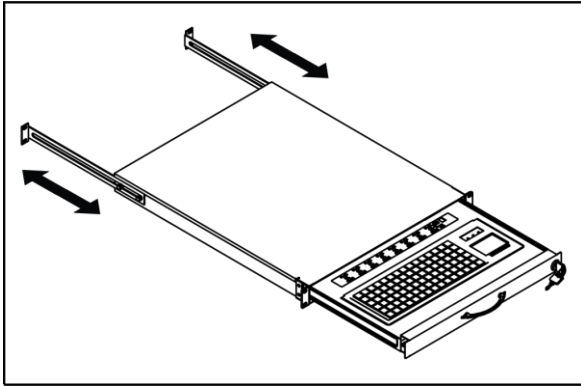
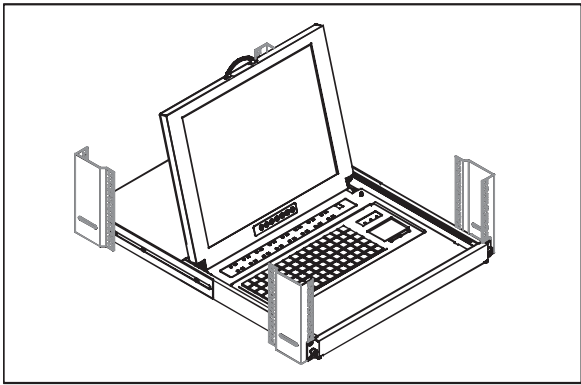
④ Membrane switch (KVM option)

⑤ Keyboard & mouse





## 1.10 Installation

	<ul style="list-style-type: none"><li>• Install each rear L-bracket using two fasteners shown in <b>Figure 1</b>.</li><li>• Leave the fasteners slightly loose</li></ul>
	<ul style="list-style-type: none"><li>• Measure the front and rear mounting depth of the rack.</li><li>• Align each rear L-bracket to a suitable length and tighten the fasteners shown in <b>Figure 2</b>.</li></ul>
	<ul style="list-style-type: none"><li>• Fix the LCD keyboard drawer into the rack.</li></ul> <p><b>* Hardware (screws and cage nuts) for fixing the mounting bracket to the rack is not provided.</b></p>

## 1.11 How to Use The Slides



**Figure 4:** White arrow button

A white arrow release button is located on the outside of each slide



**Figure 5:** Pushing the white arrow button

Push the white arrow button on either side of the upper LCD drawer to unlock. Avoid pressing the red button located on either side.



**Figure 6:** Pushing the upper LCD drawer until it is located in the rack

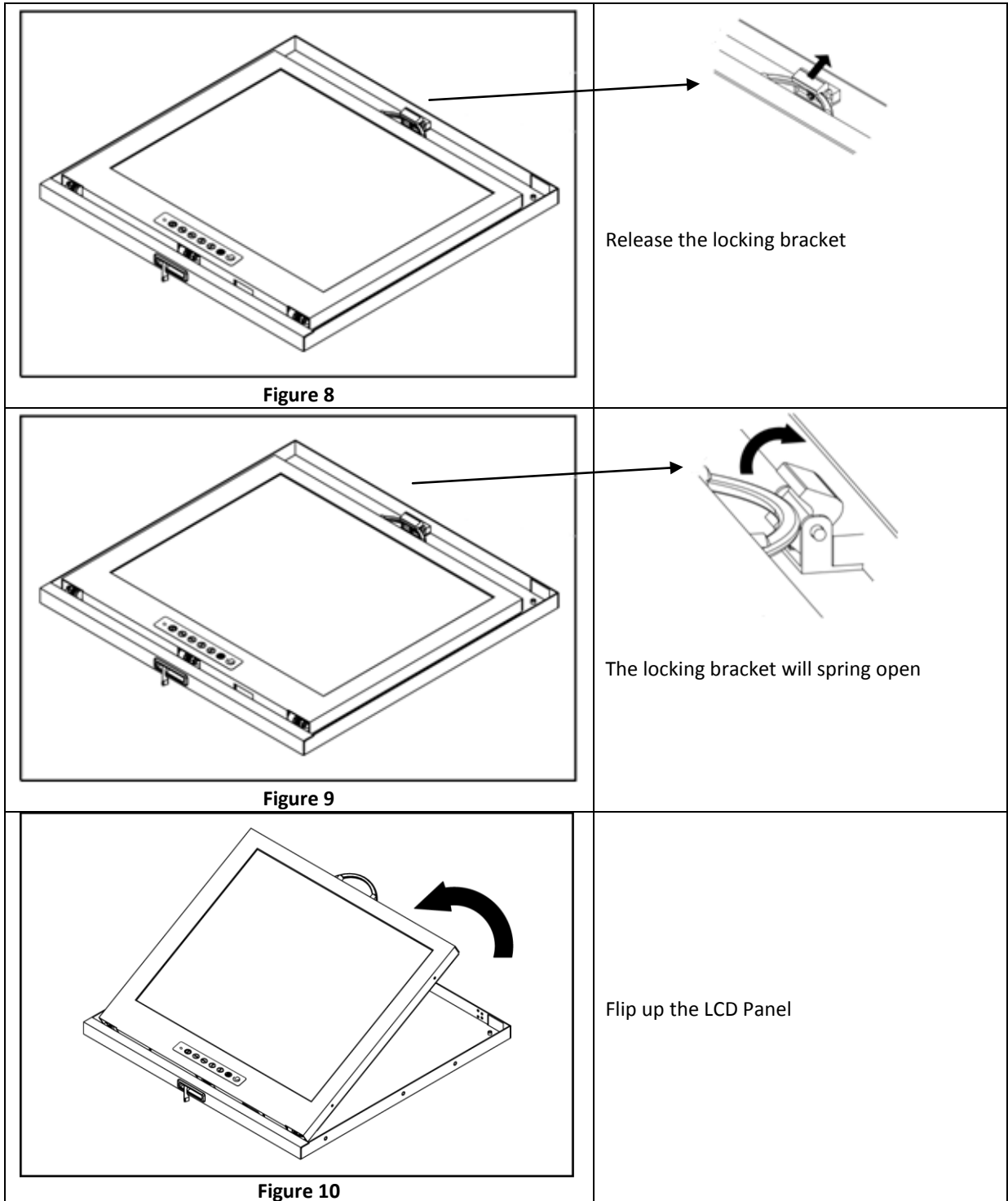
Hold own the white arrow button until the upper LCD drawer is located in the rack.



**Figure 7:** Pushing the lower keyboard drawer into the rack

Push the either side of the lower keyboard drawer until it is located in the rack.

## 1.12 Locking Bracket for RKVM-17-Dslide



### 1.13 How to use the Dual Slides



**Figure 11:**

Gently pull the handle toward the front of the lower keyboard drawer



**Figure 12:**

Pull the handle toward the front of the upper LCD drawer



**Figure 13:**

Flip up the LCD to a suitable angle



Operate the LCD keyboard drawer

Figure 14:

### 1.14 Connect to Server via USB Interface

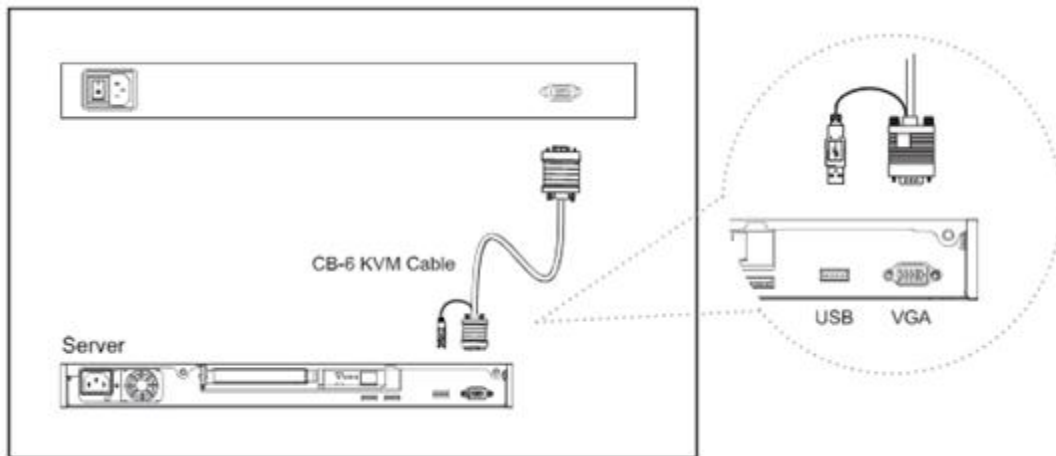
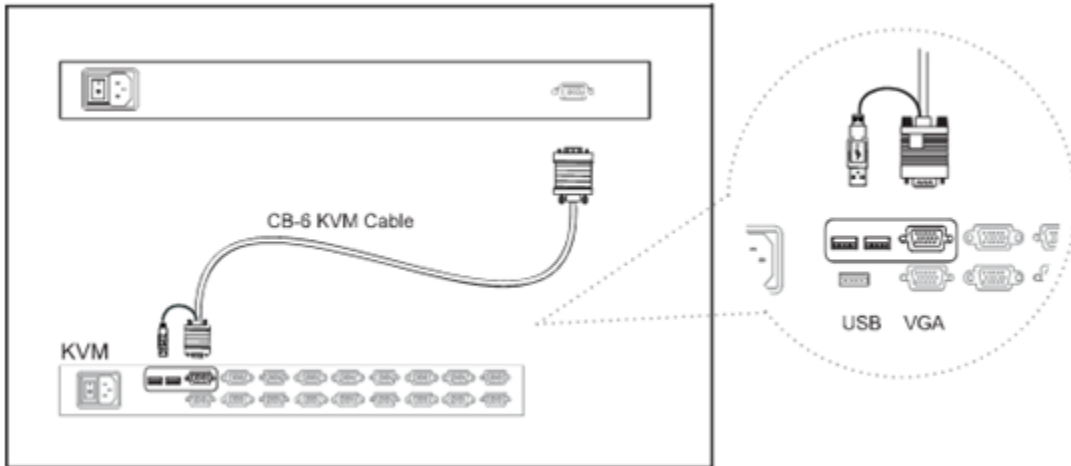


Figure 15: Example of connecting CD-6 2-in-1 USB KVM cable to server via USB Interface

### 1.15 Connect to KVM via USB Interface



**Figure 16:** Example of connecting CD-6 2-in-1 USB KVM cable to KVM via USB Interface

*The above connection is only for the LCD keyboard without KVM switch built-in.  
For the LCD keyboard drawer with KVM switch built-in, please refer to KVM switch manual.*

## 1.16 Connect to Server via PS/2 Interface

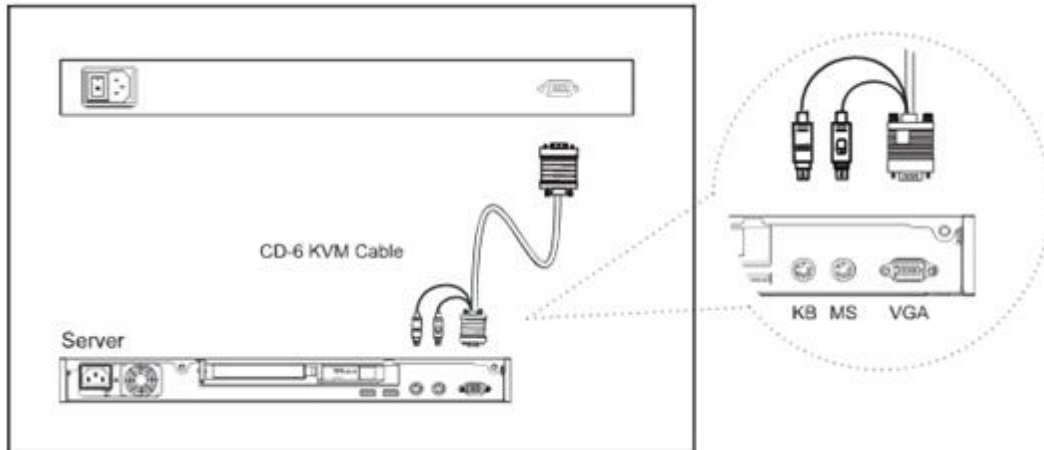


Figure 17: Example of connecting CD-6 3-in-1 PS/2 KVM cable to server via PS/2 Interface

## 1.17 Connect to KVM via PS/2 Interface

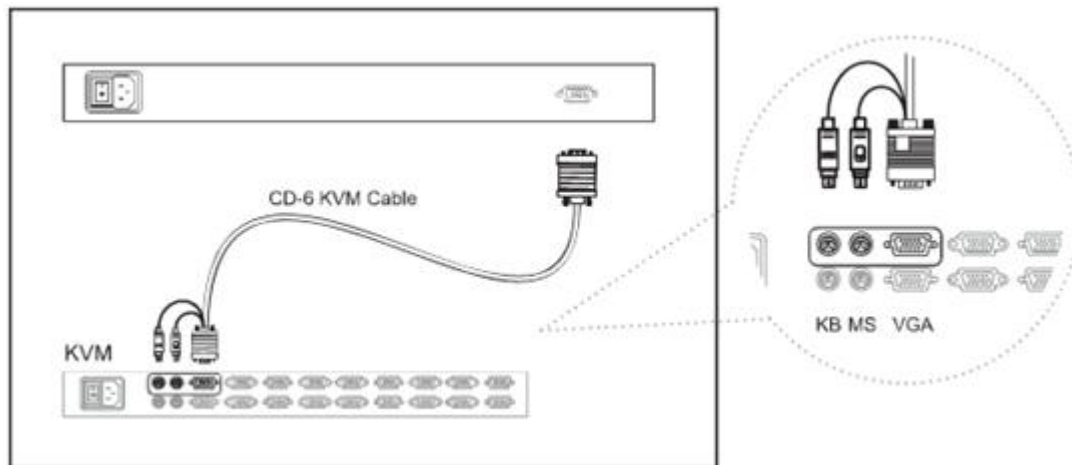
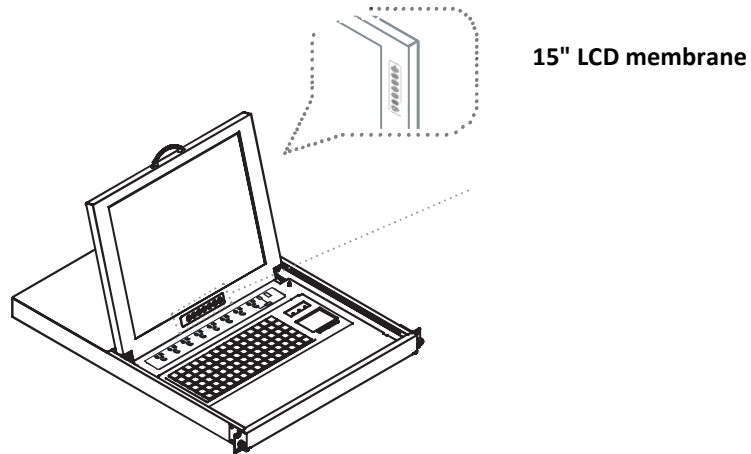


Figure 18: Example of connecting CD-6 3-in-1 PS/2 KVM cable to KVM via PS/2 Interface

*The above connection is only for the LCD keyboard without KVM switch built-in.  
For the LCD keyboard drawer with KVM switch built-in, please refer to KVM switch manual.*

## Section 2: Operations

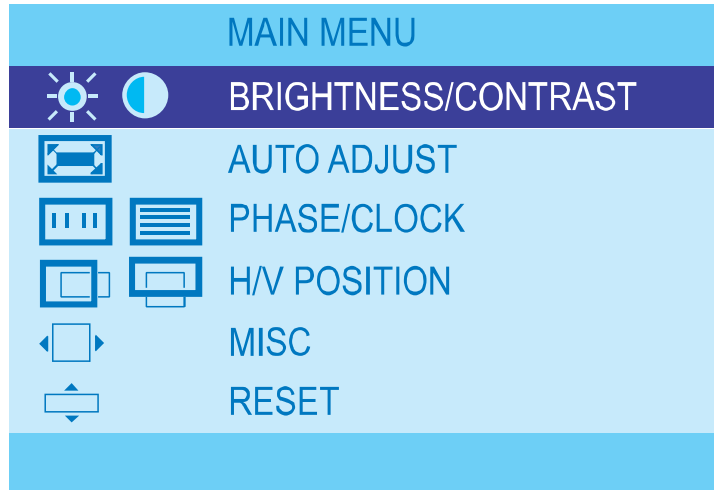
### 2.1 On-screen Display Operation




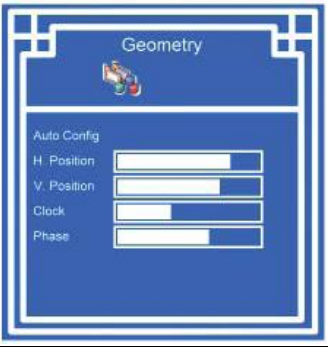


Membrane Switch	Function
○	Power light
●	Green = On
●	Orange = Power saving
⊖	Power on / off LCD
M	Display the OSD menu
⬆️ ⬇️ ⬅️ ➡️	Scrolls through menu options and adjusts the displayed control
↻	Exit the OSD screen Shortcut key to auto adjustment by pressing the button for 5 seconds or Toggle analog, digital & video connection (DVI-D and video options only)




## 2.2 On-screen Menu



<b>BRIGHTNESS / CONTRAST</b>	
Brightness	Adjust background black level of the screen image.
Contrast	Adjust the difference between the image background (black level) and the foreground (white level)
<b>AUTO ADJUST</b>	
Auto Adjust	Fine tunes the video signal to eliminate waviness and distortion. A “Adjusting” message is displayed during the process
Auto Tune	Optimize phase, clock, position and size. An “Adjusting” message is displayed during the process
<b>PHASE / CLOCK</b>	
Phase / Clock	To enter into the Phase & Clock sub menu
<b>H / V POSITION</b>	
H / V Position	Align the screen image left or right and up or down
<b>MISC</b>	
Information	Display the current resolution, refresh rate and frequency information on the screen
OSD Timer	Set the time duration in seconds that the OSD is visible after the last button is pressed. The factory default is 10 seconds
Color	Select the screen color – 5500K, 65000K & 9500K, The factory default is 9500K
Language	Select the language in which the OSD menu is displayed: English, Chinese (中文), Japanese (日本語), German, French, Spanish, Italian.
<b>RESET</b>	
RESET	Restore the settings to factory default

1	<b>Image</b>		
	Brightness	Adjust background black level of the screen image	
	Contrast	Adjust the difference between the image background (black level) and the foreground (white level)	
	Sharpness	Adjust the image from weak to sharp	
	Saturation	Adjust the saturation of the image color	
	Hue	Adjust the screen hue value	
2	<b>Geometry</b>		
	Auto Config	Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. An “Adjusting” message is displayed during the process.	
	H. Position	Align the screen image left or right	
	V. Position	Align the screen image up or down	
	Phase	Adjust the phase value	
3	<b>Function</b>		
	OSD Position	Adjust OSD menu horizontal and vertical position	
	OSD Zoom	Adjust the difference between the image background (black level) and the foreground (white level).	
	Color Temp	Select the screen color – 5500K, 6500K & 9500K. The factory default is 6500K.	
4	<b>System</b>		
	Language	Select the language in which the OSD menu is display. English, Chinese (中文), Japanese (日本語), German, French, Spanish, Italian	
	Time	Function is not supported	
	Power Off	Function is not supported	
	Reset	Reset all settings to factory default.	

## Section 3: Specifications

Item	Description
Form Factor	1U rack mounting on slide-out rails
LCD Manufacturer	
Diagonal Size	17" TFT
Max. Resolution	1280 x 1024
Brightness (cd/m <sup>2</sup> )	300
Color Support	16.2 Mil.
Contrast Ratio (typ.)	700:1
Viewing Angle (H/V)	150° x 135°
Display Area (mm)	337 x 270
Tr Response Time (ms)	2
VGA Signal Input	Analog RGB, 0.7Vp-p
Sync. Type	Separate H/V, Composite, SOG
Resolution	640 x 350, 70 Hz 720 x 400, 70 Hz 640 x 480, 60/ 72/ 75 Hz 800 x 600, 60/ 70/ 72/ 75 Hz 1024 x 768, 60/ 70/ 72/ 75 Hz 1152 x 864, 60/ 70/ 75 Hz 1280 x 1024, 60/ 70/ 75 Hz
Plug & Play DDC	EDID 1.3
Console Port (Combo)	3-in-1 DB-15 connector for VGA / keyboard /mouse Support USB & PS/2 servers or KVM Switches
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz
Power Consumption	Max. 40 Watt, Standby 5 Watt
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs.
Regulation Approval	FCC, CE

### Options

KVM Integration	Cat5 & DB-15 KVM with IP console and 2-console selection
Keyboard & mouse	Full size keyboard built-in touch-pad / trackball
Graphic Input	DVI-D, BNC, S-Video & RCA video input
DC Power	DC power input with 12V, 24V, 48V selection
Touchscreen	Resistive and capacitive type touchscreen selection

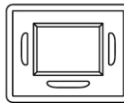
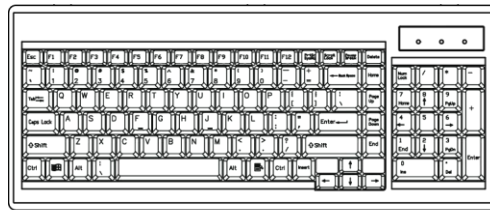
### Environmental

Operation	0° to 50°C Degree
Storage	-5° to 65°C Degree
Relative Humidity	5~90%, non-condensing
Shock	10G acceleration (11ms duration)
Vibration	5~500Hz 1G RMS random vibration

### 3.1. Keyboard & Mouse

- Multiple keyboard language selections with touchpad
- Trackball is not available

Supporting layouts



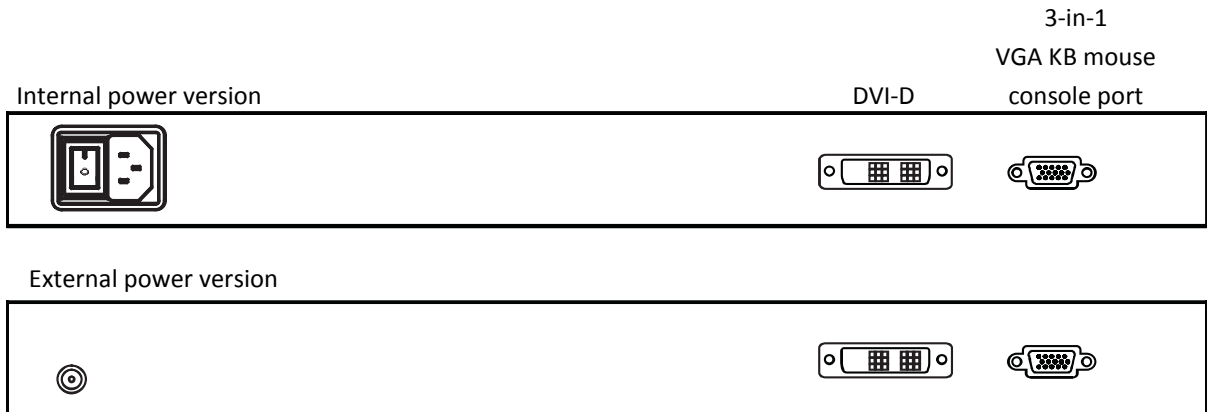
## Section 4: Optional Specifications

### 4.1 KVM Options

Our KVM is designed to seamlessly integrate into the rear of our full range of LCD drawer solutions:

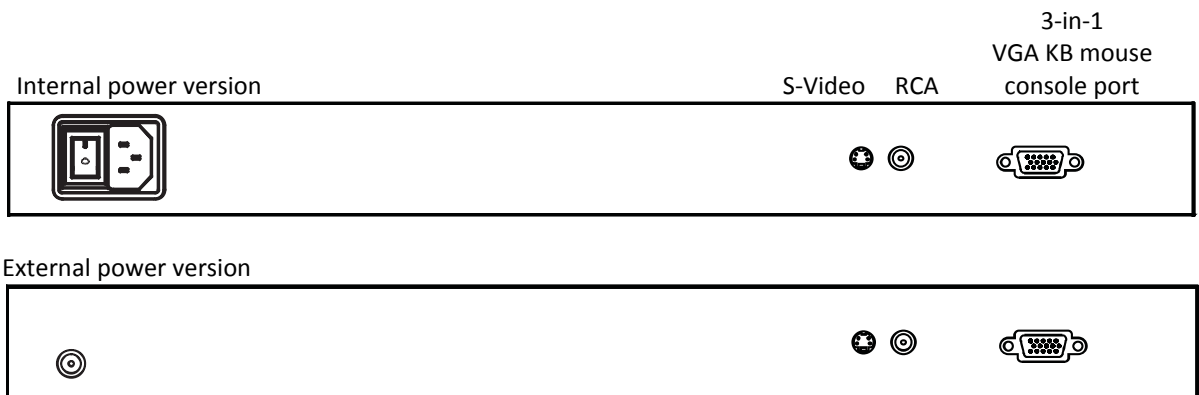
- For KVM operation, please refer to "Integrated LCD KVM Switch" user manual
- Option with high density Cat5 KVM with either 16 or 32 ports
- Option with cost efficient DB-15 KVM integration with either 8 or 16 ports
- Please ask your supplier for full KVM details

### 4.2 DVI-D Option



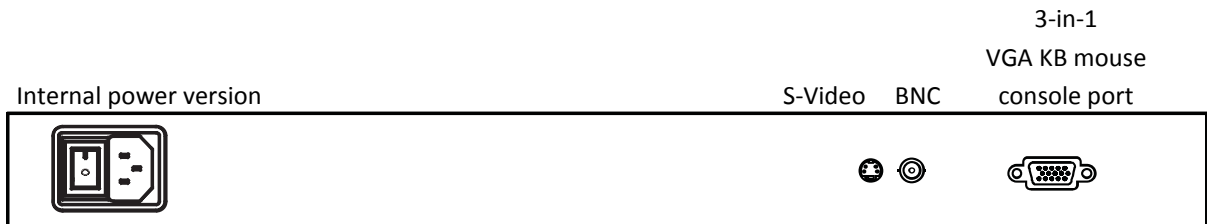
- Package includes a 6' DVI-D cable and a 6' 2-in-1 keyboard & mouse cable
- In DVD-D option, no VGA signal input is included

### 4.3 S-Video + RCA Input Option

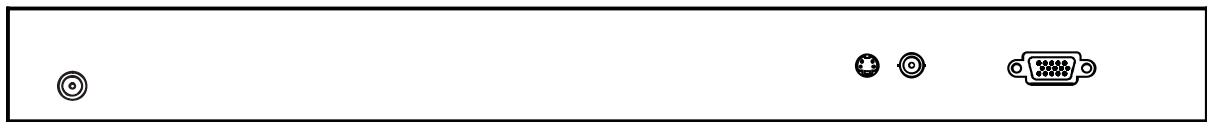


- Package includes an extra 6ft S-Video and 6ft RCA cables

## 4.4 S-Video + BNC Input Option



External power version



**Remarks:**

- Package includes an extra 6ft S-Video cable

## 4.5 DC Power Option

Model	12V	24V	48V
<b>Input Rating</b>			
Input Voltage	12 Volt	24 Volt	48 Volt
Input Range	9 ~ 18V	18 ~ 36V	36 ~ 75V
<b>Input Current</b>			
-No Load	50 mA	50 mA	50 mA
-Full Load	4950 mA	2450 mA	1220 mA
<b>Output Rating</b>			
Output Voltage	12 Volt	12 Volt	12 Volt
Output Current	4.16A	4.16A	4.16A
<b>Efficiency</b>	84%	85%	85%

- Package does not include power cord and AC power adapter
- With DC power option, the depth will be extended from 650mm (25.6") to 690mm (27.2")

## Section 5: Troubleshooting

### How do I adjust the resolution?

To change monitor resolution in Windows, click Start -> Control Panel -> Display. Select Settings tab to adjust the monitor resolution in Desktop Area. The available resolutions, “640x480”, “800x600”, “1024x768”, “1152x864”, 1280x1024”, are determined by the display card in your computer.


### Is interface signal appeared on LCD normal when shutting down the computer?

In rare cases, interface may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or normally.

### The membrane button power light is not ON

Press the Power ON/OFF on LCD membrane button to check if the monitor is in the ON mode. Check to see if the power cord is properly connected to the LCD keyboard drawer and power outlet.

### Screen image is not centered or sized properly

Press the  button for two seconds to automatically adjust the image. Adjust the H-Position and V-Position settings via On-screen menu.

### Is the LCD keyboard drawer hot-pluggable?

The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard receives power.

## Section 6: Dimensions

Model	Product Dimension (W x D x H)	Package Dimension (W x D x H)	Net Weight	Gross Weight
RKVM-17-Dslide	442 x 650 x 44 mm 17.4 x 25.6 x 1.75 in	589 x 826 x 168 mm 23.2 x 32.5 x 6.6 in	15kg 33lb	21kg 46lb





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