

# User Manual 17" & 19" LCD



# RKD-KVM-17 / RKD-KVM-19

**1U LCD Console Drawer** 

#### **Options:**

- AV / DVI-D / HDMI / Audio - Full Range KVM

- DC power

₽ F© C€

#### 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	> RKD-KVM-17 / RKD-KVM-19	
1.1 1.2 1.3 1.4	Package Content Structure Diagram & Dimension Installation Connection	P.1 P.1 - 2 P.3 - 5 P.6
< Part. 2	> Specifications / OSD	
2.1	Product Specifications	P.7 - 8
2.2	Keyboard / Mouse Specifications	P.9
2.3	On-screen Display Operation ( OSD )	P.10 - 11
< Part. 3	> Options	
3.1	HDMI, DVI-D, S-Video + BNC & Audio	P.12

48V, 24V or 12VDC power

3.2

P.13

# **Contents**

# < Part. 4 > KVM Integration

Matrix	Local	Remote		8-port	16-port	32-port
Cat6 KVM	1	1	1	-	-MUIP1613	-MUIP3213
	1	1	2	-	-MUIP1624	-MUIP3224
	1	1	0	-	-MU1602	-MU3202
	1	2	0	-	-MU1603	-MU3203
	1	3	0	-	-MU1604	-MU3204
Combo	Local	Remote		8-port	16-port	32-port
Cat6 KVM	1	0	1	-UIP802	-UIP1602	-UIP3202
	1	1	0	-U802	-U1602	-U3202
	1	0	0	-U801	-U1601	-U3201
Matrix	Local	Remote		8-port	16-port	32-port
DB-15 KVM	1	1	1	-MIP813	-MIP1613	
	1	1	2	-MIP824	-MIP1624	
	1	1	0	-M802	-M1602	
	1	2	0	-M803	-M1603	
	1	3	0	-M804	-M1604	-
Combo	Local	Remote		8-port	16-port	32-port
DB-15 KVM	1	0	1	-IP802	-IP1602	
	1	1	0	-802	-1602	
	1	0	0	-S801	-S1601	-
DVI-D	Local	Remote		12-port	-	
KVM	1	0	0	-1201D	-	-
USB Hub	Local	Remote		8-port	16-port	32-port
DB-15 KVM	1	0	1	-IP802H	-IP1602H	
	1	1	0	-802H	-1602H	
	1	0	0	-801H	-1601H	-
PS/2	Local	Remote		8-port	-	
DB-15 KVM	1	0	0	-801	-	-

#### **Before Installation**

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has 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**

### **A**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.
- 2 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.
- 4 Wait until your monitor is completely dry before plugging it in and powering it up.

#### < 1.1 > Package Content



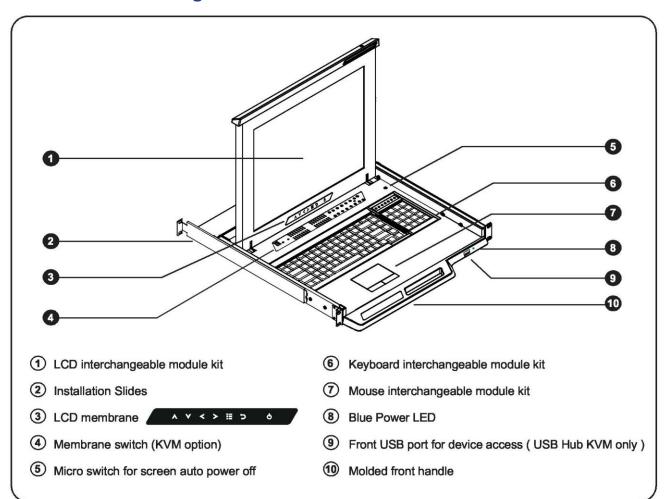
#### RKD-KVM-17 or RKD-KVM-19 unit X 1

- KVMCE-6 6ft Combo KVM cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X 8



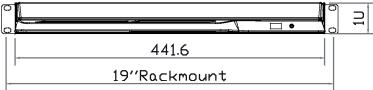
The above package content is only for the single console models. It varies with options such as KVM, HDMI, DVI-D, AV, audio & DC power.

### < 1.2 > Structure Diagram



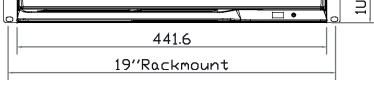
< 1.2 > Dimension **RKD-KVM-17 / 19** 

#### **Front View**



UNIT: mm

1mm = 0.03937 inch

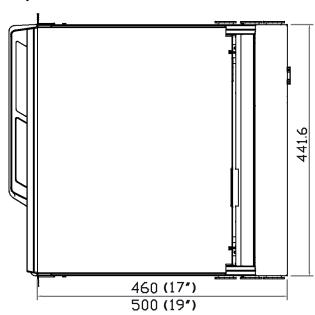


460 (17")

# 500 (19")

### **Top View**

**Side View** 

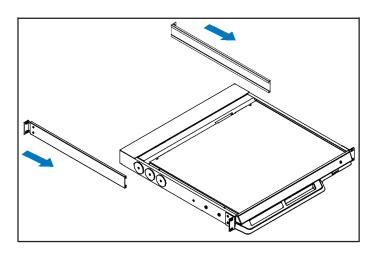


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
RKD-KVM-17 series	441.6 x 460 x 44 mm	590 x 823 x 140 mm	12 kg	16.5 kg
	17.4 x 18.1 x 1.73"	23.2 x 32.4 x 5.5"	26 lb	36 lb
RKD-KVM-19 series	441.6 x 500 x 44 mm	590 x 823 x 140 mm	13 kg	17.5 kg
	17.4 x 19.7 x 1.73"	23.2 x 32.4 x 5.5"	29 lb	39 lb



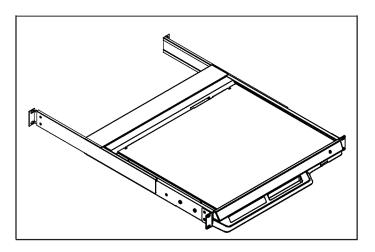
The weight is only for the single console models. It varies with accessories & options such as KVM, HDMI, DVI-D, AV, audio & DC power.

#### < 1.3 > Installation - How to install Installation Slides



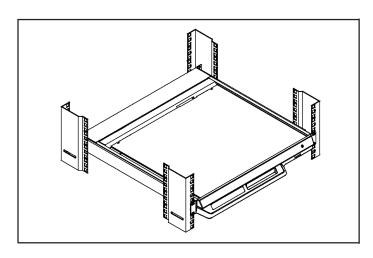
# Step 1

■ 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.
- Align each rear mounting bracket to a suitable length.



# Step 3

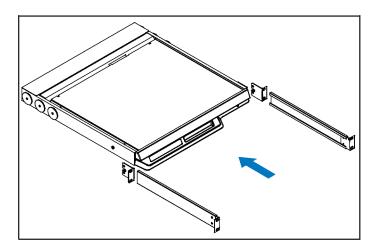
#### Complete the installation

■ 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 RKD-KVM-17 / 19

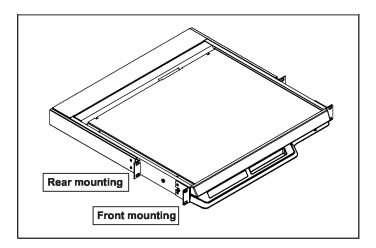


# Step 1

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

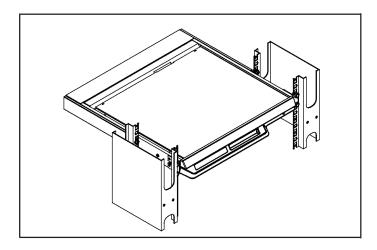
**Option** 

Model: MB-751-12



# Step 2

■ Align each rear mounting bracket to a suitable length.



# Step 3

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



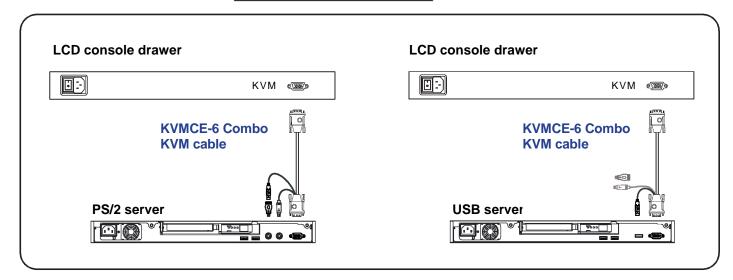
■ Hold the handle and slide out the drawer.



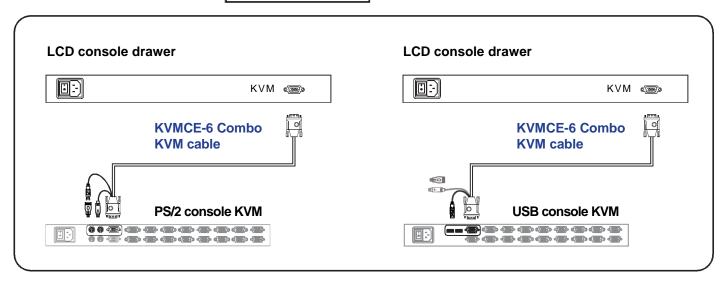
■ Flip up the LCD to a suitable angle.



■ Operate the LCD console drawer.



# < 1.4 > Connection to external KVM





Caution: The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer, we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. The company is not responsible for damage caused in this way.

### < Part 2 >

# < 2.1 > Product Specifications

LCD		RKD-KVM-17	RKD-KVM-19
Panel	Manufacturer		
	Panel Size ( diagonal )	17-inch TFT color LCD	19-inch TFT color LCD
	Display pixel ( dots x lines )	1280 x 1024	1280 x 1024
	Brightness ( typ. )	250	250
	Contrast Ratio ( typ. )	1000:1	1000:1
	Color	16.7 M	16.7 M
	Viewing Angle ( L/R/U/D )	80/80/80/80	80/80/80/80
	Response Time ( ms )	5	5
	Dot pitch ( mm )	0.264	0.294
	Display Area ( mm )	337.92H x 270.33V	376.32H x 301.05V
	Surface treatment	Haze 25%, I	Hard-coating
	Surface hardness	3H	3H
	Backlight Type	CCFL	CCFL
	MTBF ( hrs )	50,000	50,000

Video Digital	HDMI	HDMI 1.1, CEA-861-D
Connectivity	DVI	DVI-D, TMDS single link
Analog	VGA	Analog 0.7Vp-p
	Composite (BNC)	NTSC & PAL
	S-Video ( 4-pin )	NTSC & PAL
Plug & Play	DVI/VGA	VESA EDID structure 1.3
Synchronization	VGA	Separate, Composite & SOG

	) Input	Connector	3.5mm stereo jack
Connectivity		Impedance / Power level	30k.2 / 750mV
Audio	o Output	Connector	3.5mm stereo jack
		Resistance / Power level	30k.2 / 2.8V
Spea	iker Output	Power	2 x 2W

<sup>\*</sup>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	25W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory Safety Approval	cUL, FCC & CE
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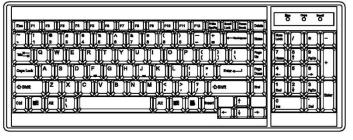
Environmental	' ~	Temperature	0 to 50°C degree
Conditions		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

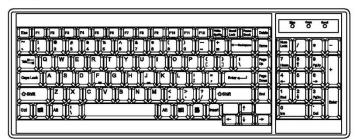
Physical		RKD-KVM-17	RKD-KVM-19
Specification	Product (WxDxH)	441.6 x 460 x 44 mm	441.6 x 500 x 44 mm
		17.4 x 18.1 x 1.73 inch	17.4 x 19.7 x 1.73 inch
	Packing (W x D x H)	590 x 823 x 140 mm	590 x 823 x 140 mm
		23.2 x 32.4 x 5.5 inch	23.2 x 32.4 x 5.5 inch
	Net Weight	12 kgs / 26 lbs	13 kgs / 29 lbs
	Gross Weight	16.5 kgs / 36 lbs	17.5 kgs / 39 lbs

Applicable	VGA Input	PC Signal	1280 x 1024 x 60 / 75Hz
Format			1280 x 960 x 60Hz
			1280 x 760 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

# < 2.2 > Keyboard / Mouse Specifications

Ge G keyboard integrated with touchpad





G keyboard integrated with trackball





Key force	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	

Gb

### **Supporting layouts**

America



America	United States				
	United Kingdom	Germany	France	Spain	Norway
EMEA	Italy	Russia	Switzerland	Netherlands	Portugal
Asia	* China	Japan	Korea	Arabia	<b>C</b> ∗ Turkey



Membrane Switch	Function		
<b>\bar{\bar{\bar{\bar{\bar{\bar{\bar{</b>	Turn the monitor on or off		
	Display the OSD menu  Act as an Enter key to select screen setting option		
	Scroll through menu options and adjust the displayed control		
Ð	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu		

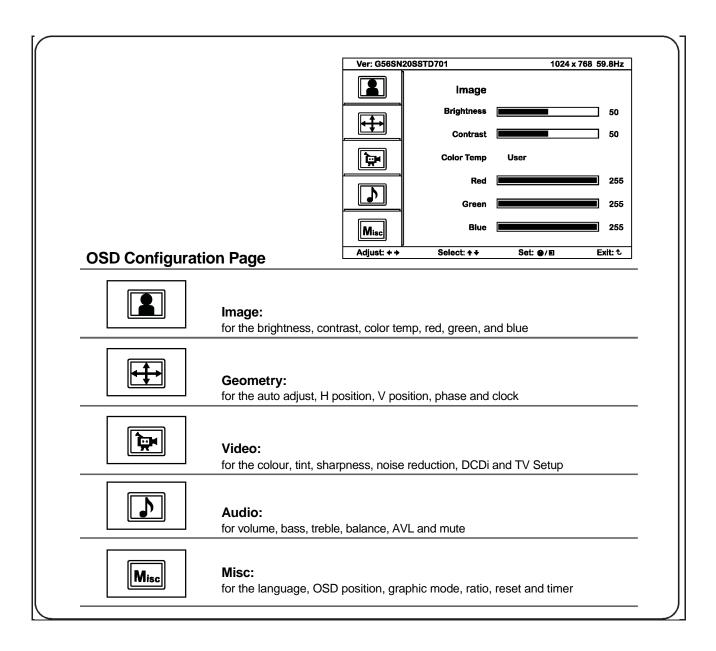
Remark: All LED touch buttons in WHITE light.

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** (1)).



# < 2.3 > On-screen Display Operation ( OSD )



#### < Part 3 >

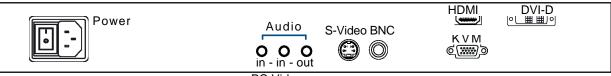
### < 3.1 > Options:

**RKD-KVM-17 / 19** 

- **HDMI** ( HDMI 1.1, CEA-861-D )
- DVI-D ( DVI-D TMDS single link )
- AV (S-Video + Composite, BNC)
- Audio (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



- (1) For AV2.2 upgrade, either HDMI or DVI-D is provided.
- (2) For the above options, RKD-KVM-17 depth will be extended from 460mm (18.1") to 530mm (20.9") and RKD-KVM-19 depth will be extended from 480mm (18.9") to 570mm (22.4")



PC Video

# < 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%

### **DC** power



#### \*\*\*

#### For DC power option :

- (1) Option excludes 1 x power cord and 1 x AC power adapter.
- (2) RKD-KVM-17 depth will be extended from 460mm (18.1") to 530mm (20.9")
- (3) RKD-KVM-19 depth will be extended from 480mm (18.9") to 570mm (22.4")

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