# **User Manual**

# SunReadable Solution 15", 17", 19", 22" screen size



# SunReadable LCD Display Models RKMTL-7U-17HB / RKMTL-8U-19HB

SunReadable Widescreen LCD Display Models
RKMTL-7U-19WHB / RKMTL-8U-22WHB



### SunReadable LCD Drawer Models RKMTL-1U-17HB / RKMTL-1U-19HB



# **SunReadable LCD Keyboard Drawer Models**

HRKD-KVM-17 / 19

- With KVM options

Options: - BNC + S-Video - DVI

- Audio - Quad Display

- Touchscreen

- DC power

# **Contents**

Chapter 1	Getting Started	
•	1.1 Important Safeguards	1
	1.2 Regulatory Notice	
	1.3 Before Installation	
	1.4 Unpacking	3
	1.5 Optional Accessories	
	1.6 Peripheral Products	4
Part 1	RKMTL-7U-17HB & RKMTL-8U-19HB	
Chapter 2	Installation	
	2.1 Package Contents	5
	2.2 Installation	6
	2.3 Structure Diagram	
	2.4 Connection	7
Part 2	RKMTL-7U-19WHB / RKMTL-8U-22WH	3
Chapter 3	Installation	
•	3.1 Package Contents	8
	3.2 Structure Diagram	9
	3.3 Connection	9
	3.4 Installation1	0-11

# Part 3 RKMTL-1U-17HB / RKMTL-1U-19HB

Installation	
4.1 Package Contents	12
4.2 Structure Diagram	13
4.3 Connection	13
4.4 How to Install "One Man" Installation Slides	14-15
HRKD-KVM-17 / 119	
Installation	
5.1 Package Contents	17
5.2 Optional Accessories	18
5.3 Structure Diagram	18
5.4 How to Install "One Man" Installation Slides	19-20
5.5 How to Use The Slides	21
5.6 HRKD-KVM-17 / 119 (Single Console)	
- Use KVMCE-6 to connect to server via PS/2 interface	22
5.7 HRKD-KVM-17 / 119 (Single Console)	
	22
,	00
	23
	23
5.10 Keyboard & Mouse	
	4.1 Package Contents 4.2 Structure Diagram 4.3 Connection 4.4 How to Install "One Man" Installation Slides 4.5 How to Use The Slides  HRKD-KVM-17 / 119  Installation 5.1 Package Contents 5.2 Optional Accessories 5.3 Structure Diagram 5.4 How to Install "One Man" Installation Slides 5.5 How to Use The Slides 5.6 HRKD-KVM-17 / 119 (Single Console) 1 Use KVMCE-6 to connect to server via PS/2 interface 5.7 HRKD-KVM-17 / 119 (Single Console) 1 Use KVMCE-6 to connect to KVM via PS/2 interface 5.8 HRKD-KVM-17 / 119 (Single Console) 5.9 HRKD-KVM-17 / 119 (Single Console)

Chapter 6 Operation 6.1 On-screen Display Operation	25
6.2 On-screen Menu	
Chapter 7 LCD Specification	27-28
Chapter 8 Optional Specification	
8.1 DVI-D Option	
8.2 BNC + S-Video Option	
8.3 Audio Option	31-33
Chapter 9 Touchscreen Options	34-35
Chapter 10 Front NEMA 4 / IP65 Options	36
Chapter 11 Quad Display Option	37
Chapter 12 DC Power Options	38
Chapter 13 <b>Dimensions</b>	39
Chapter 14 <b>Troubleshooting</b>	40

# 1.1 Important Safeguards

# **Chapter 1**

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.
	Any product,	Any product, on which the	Any product, on which the serial number	Any product, on which the serial number has been	Any product, on which the serial number has been defaced,	Any product, on which the serial number has been defaced, modified

Dα	mage, deterioration or maifunction 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.

■ Removal, installation, and set-up service charges.

☐ Any other causes which does not relate to a product defect.

### 1.2 Regulatory Notice

**Chapter 1** 

#### **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**

- 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 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 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.

### 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.

### 1.3 Before Installation

# **Chapter 1**

- It is very important to locate the Rackmount LCD Drawer / Display in a suitable environment.
- The surface for placing and un-boxing the Rackmount LCD Drawer / Display 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 LCD Drawer / Display to the related facilities should be well considered

# 1.4 Unpacking

The Rackmount LCD Drawer / Display 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.

# 1.5 Optional Accessories

#### 1. Power Cord

- 1.1 IEC power cord
- 1.2 NEMA 5-15 power cord (US)
- 1.3 BS 1363 power cord (UK)
- 1.4 CEE 7/4 power cord (German)
- 1.5 AS 3112 power cord (Australia)



# 1.6 Peripheral Products

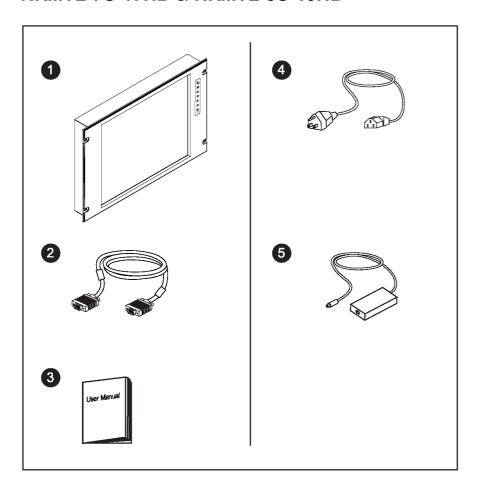
# **Chapter 1**

Item	Description
Matrix Cat6 KVM	Matrix Cat6 16 port KVM Matrix IP Cat6 16 port KVM Matrix Cat6 32 port KVM Matrix IP Cat6 32 port KVM
Matrix DB-15 KVM	Matrix DB-15 8 port KVM  Matrix IP DB-15 8 port KVM  Matrix DB-15 16 port KVM  Matrix IP DB-15 16 port KVM
Combo Cat6 KVM	Combo Cat6 8 port KVM Combo Cat6 16 port KVM Combo Cat6 32
Combo DB-15 KVM	Combo DB-15 8 port KVM Combo DB-15 16 port
PS/2 DB-15 KVM	4 / 8 / 16 port PS/2 DB-15 KVM
Keyboard Drawer	Rackmount keyboard drawer (with KVM options) Rackmount keyboard drawer (short depth version)

# 2.1 Package Contents

# Chapter 2

### **RKMTL-7U-17HB & RKMTL-8U-19HB**



- 1 Rackmount LCD display x 1 pc
- 2 6' VGA cable (male to male) x 1 pc
- 3 User manual x 1 pc
- 4 Power cord x 1 pc
- 3 Auto switch power adapter x 1 pc

#### Chapter 2 2.2 Installation

# RKMTL-7U-17HB & RKMTL-8U-19HB

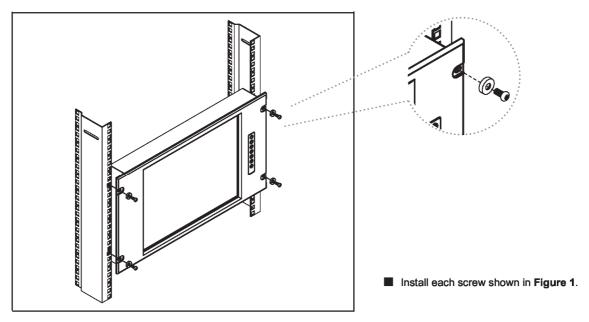


Figure 1.

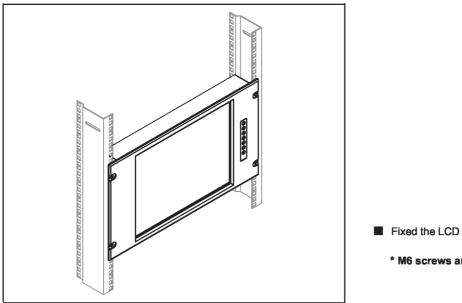


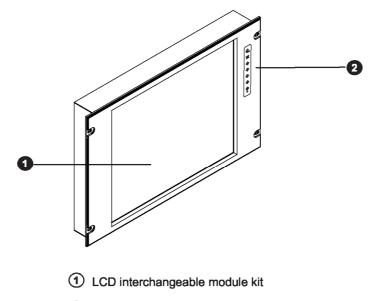
Figure 2.

Fixed the LCD into the rack.

\* M6 screws are not provided.

### 2.3 Structure Diagram

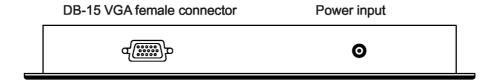
#### RKMTL-7U-17HB & RKMTL-8U-19HB



2 LCD membrane

#### 2.4 Connection

#### RKMTL-7U-17HB & RKMTL-8U-19HB



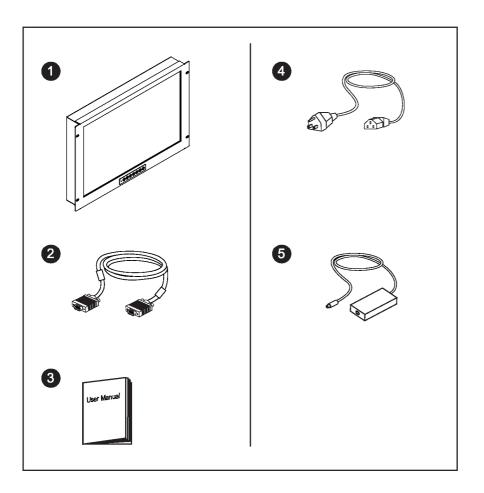


Caution: The Rackmount LCD Drawer & Display are hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage of the servers, KVM and Rackmount LCD Drawer.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

# 3.1 Package Contents

# **Chapter 3**

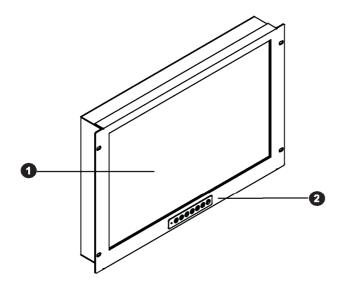
### **RKMTL-7U-19WHB & RKMTL-8U-22WHB**



- 1 Rackmount LCD display x 1 pc
- 2 6' VGA cable (male to male) x 1 pc
- 3 User manual x 1 pc
- 4 Power cord x 1 pc
- S Auto switch power adapter x 1 pc

### 3.2 Structure Diagram

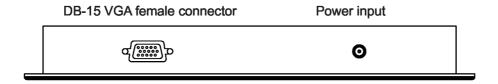
#### RKMTL-7U-19WHB & RKMTL-8U-22WHB



- 1 LCD interchangeable module kit
- 2 LCD membrane

#### 3.3 Connection

#### RKMTL-7U-19WHB & RKMTL-8U-22WHB





Caution: The Rackmount LCD Drawer & Display are 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 of the servers, KVM and Rackmount LCD Drawer. Before attempting to connect anything to the Rackmount LCD Drawer, we suggest turning off power to all devices before connecting them. Apply power to connected devices again only after the Rackmount LCD Drawer is receiving power. The company is not responsible for damage caused in this way.

# **RKMTL-7U-19WHB**

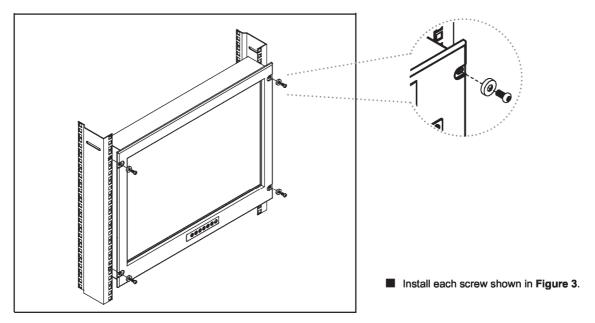


Figure 3.

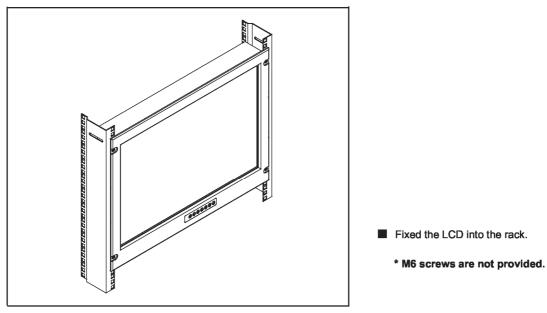


Figure 4.

### 3.4 Installation

# **Chapter 3**

### **RKMTL-8U-22WHB**

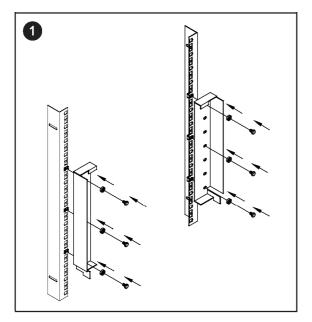


Figure 5.

- Install each screw shown in Figure 5.
  - \* M6 screws are not provided.

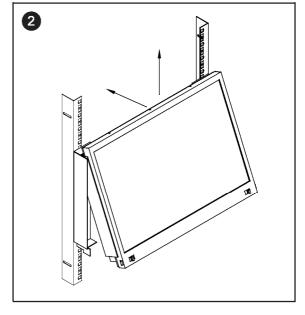


Figure 6.

■ Insert the upper part of the LCD display to the rack shown in **Figure 6**.

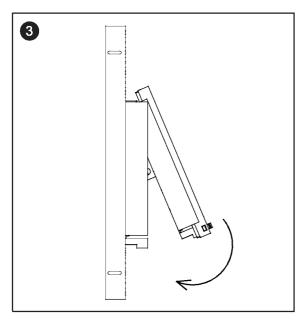


Figure 7.

Push the lower part of the LCD into the rack.

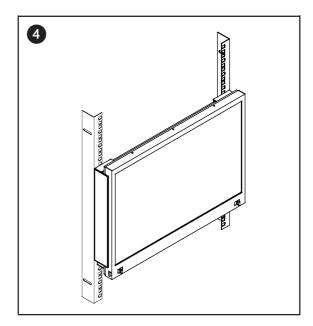


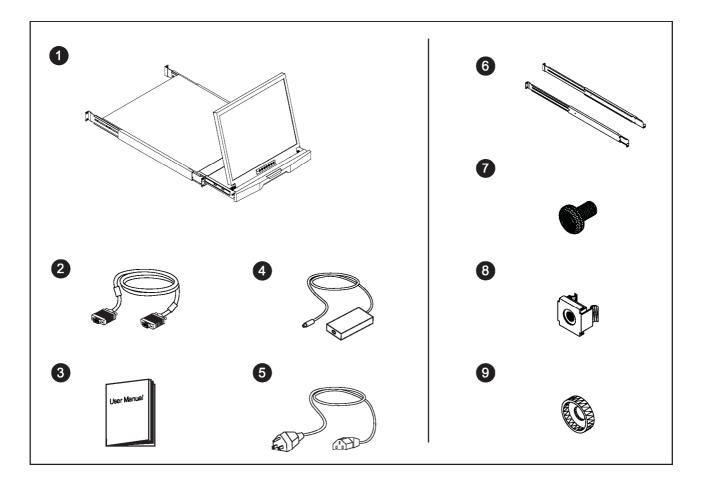
Figure 8.

Installation completed.

# **4.1 Package Contents**

# **Chapter 4**

### **RKMTL-1U-17HB & RKMTL-1U-19HB**

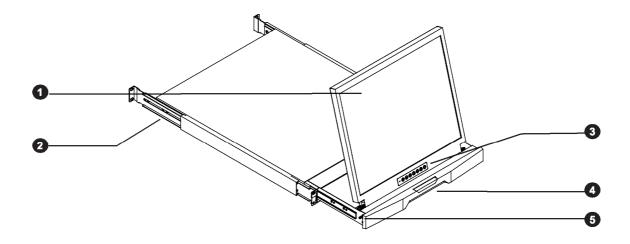


- 1 LCD drawer x 1 pc
- 2 6' VGA cable (male to male) x 1 pc
- 3 User manual x 1 pc
- 4 Auto switch power adapter x 1 pc
- 5 Power cord x 1 pc
- 6 Mounting bracket x 2 pcs
- 7 M6\*15mm screw x 8 pcs
- 8 M6 cage nut x 6 pcs
- 9 Cup washer x 8 pcs

### 4.2 Structure Diagram

# **Chapter 4**

#### RKMTL-1U-17HB & RKMTL-1U-19HB



- 1) LCD interchangeable module kit
- (2) "One Man" Installation Slide
- 3 LCD membrane

- (4) Carry handle to release the 2-pt lock
- (5) 2-point lock

### 4.3 Connection

#### RKMTL-1U-17HB & RKMTL-1U-19HB

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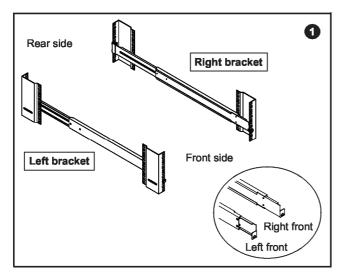


Caution: The Rackmount LCD Drawer & Display are hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage of the servers, KVM and Rackmount LCD Drawer.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

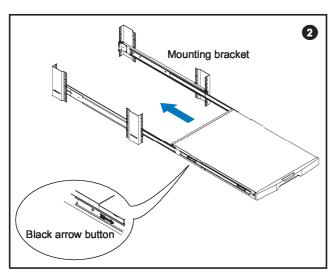
### 4.4 How to Install "One Man" Installation Slides

# **Chapter 4**

#### Install into rack



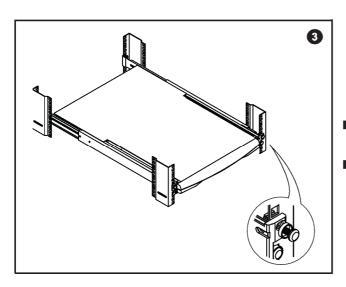
- Attach the left and right mounting bracket to rack 19" mounting rails.
- Adjust the rear mouting bracket to fit your rack.
- M6 screw and cup washer x 6 pcs included.
- Caution: Leaving the screws slightly loose, until you complete the installation in step 4



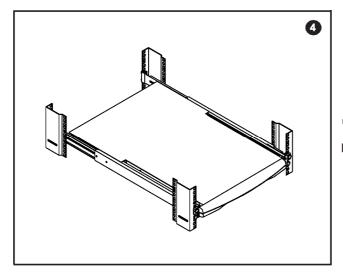
- Pick up the LCD keyboard drawer.
- Insert the LCD keyboard drawer into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD keyboard drawer to park position.

### 4.4 How to Install "One Man" Installation Slides

# **Chapter 4**



- Attach front left and right mounting ears of the LCD keyboard drawer to vertical mounting rails.
- M6 screw and cup washer x 2 pcs included.



#### Complete the installation

■ Tighten all 8 pcs of M6 screw to complete the installation.

# 4.5 How to Use the Slides

# **Chapter 4**

### **RKMTL-1U-17HB & RKMTL-1U-19HB**

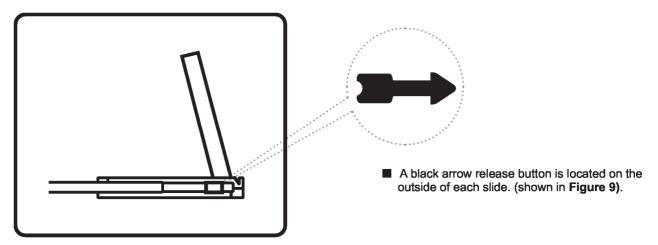


Figure 9.

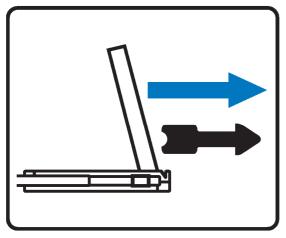
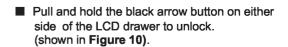


Figure 10..



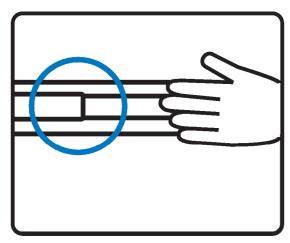


Figure 11.

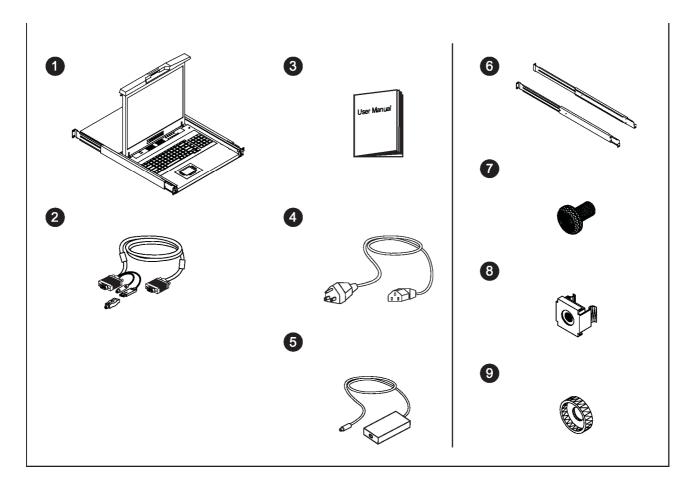
■ Push the LCD drawer into the rack. (shown in Figure 11).

Caution: Keep your fingers away from the slide stop

# **5.1 Package Contents**

# **Chapter 5**

### HRKD-KVM-17 & HRKD-KVM-19



- 1 LCD keyboard drawer x 1 pc
- 2 KVMCE-6 Combo 4-in-1 KVM cable x 1 pc
- 3 User manual x 1 pc
- 4 Power cord x 1 pc
- **5** Auto switch power adapter ( for external power version) x 1 pc
- 6 Mounting bracket x 2 pcs
- **7** M6\*15mm screw x 8 pcs
- 8 M6 cage nut x 6 pcs
- 9 Cup washer x 8 pcs

# **5.2 Optional Accessories**

# **Chapter 5**

 Combo 4-in-1 KVM cable 1.1 KVMCE-6 6 feet 1.2 CE-10 10 feet 1.3 CE-15 15 feet

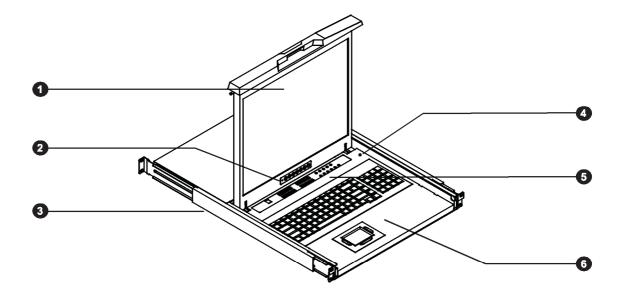


#### 2. Power Cord

2.1 IEC power cord2.2 NEMA 5-15 power cord (US)2.3 BS 1363 power cord (UK) 2.4CEE 7/4 power cord (German) 2.5AS 3112 power cord (Australia)



# 5.3 Structure Diagram



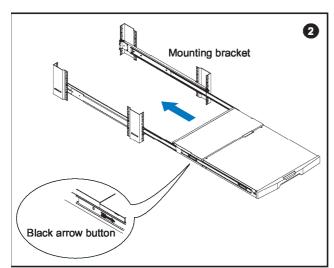
- 1 LCD interchangeable module kit
- 2 LCD membrane
- 3 "One Man" Installation Slide

- 4 Micro-switch for LCD auto ON / OFF
- Membrane switch (KVM option)
- 6 Keyboard & mouse

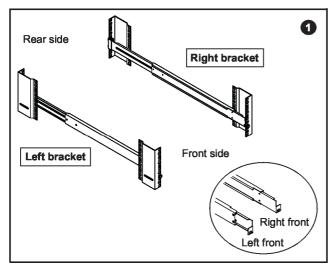
### 5.4 How to Install "One Man" Installation Slides

# **Chapter 5**

### Install into rack



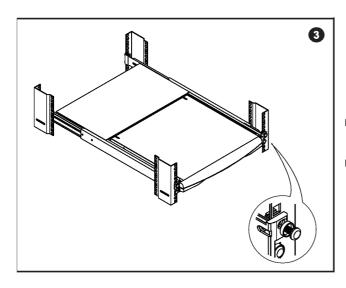
- Pick up the LCD keyboard drawer.
- Insert the LCD keyboard drawer into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD keyboard drawer to park position.



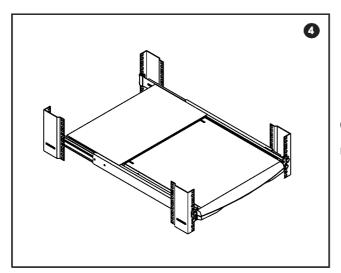
- Attach the left and right mounting bracket to rack 19" mounting rails.
- Adjust the rear mouting bracket to fit your rack.
- M6 screw and cup washer x 6 pcs included.

**Caution**: Leaving the screws slightly loose, until you complete the installation in step 4

### 5.4 How to Install "One Man" Installation Slides



- Attach front left and right mounting ears of the LCD keyboard drawer to vertical mounting rails.
- M6 screw and cup washer x 2 pcs included.



#### Complete the installation

■ Tighten all 8 pcs of M6 screw to complete the installation.

# 5.5 How to Use the Slides

# **Chapter 5**

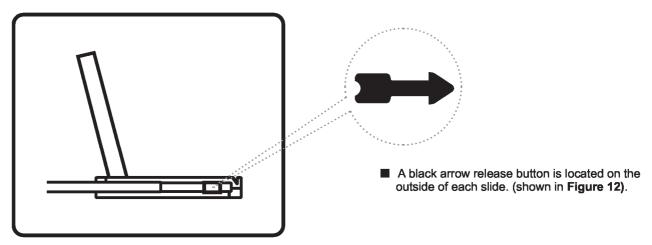


Figure 12.

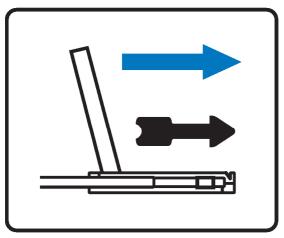
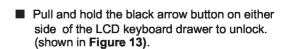


Figure 13.



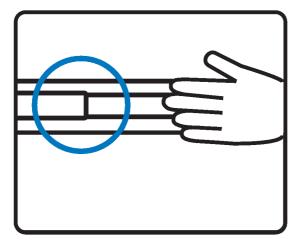


Figure 14.

■ Push the LCD keyboard drawer into the rack. (shown in **Figure 14**).



**Caution:** Keep your fingers away from the slide stop

- Use KVMCE-6 to connect to server via PS/2 interface

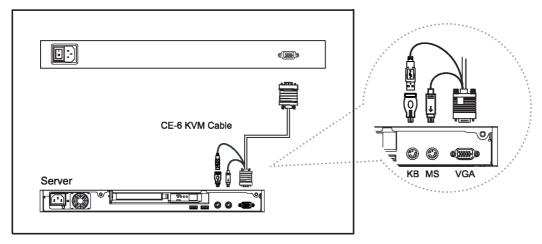


Figure 15. Example of connecting KVMCE-6 4-in-1 Combo KVM cable to server via PS/2 interface

### 5.7 HRKD-KVM-17 / 19 (Single Console)

- Use KVMCE-6 to connect to KVM via PS/2 interface

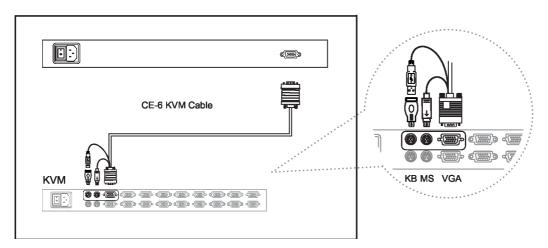


Figure 16. Example of connecting KVMCE-6 4-in-1 Combo KVM cable to KVM via PS/2 interface

#### Remarks:

- 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 attached KVM switch user manual.



Caution: The LCD keyboard 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 keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The company is not responsible for damage caused in this way.

- Use KVMCE-6 to connect to server via USB interface

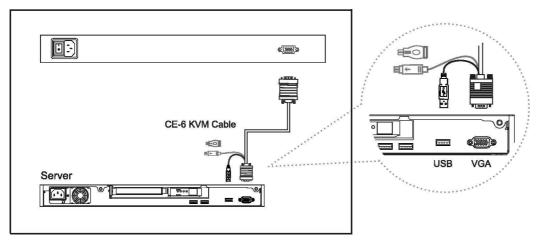


Figure 17. Example of connecting KVMCE-6 4-in-1 Combo KVM cable to server via USB interface

### 5.9 HRKD-KVM-17 / 19 (Single Console)

- Use KVMCE-6 to connect to KVM via USB interface

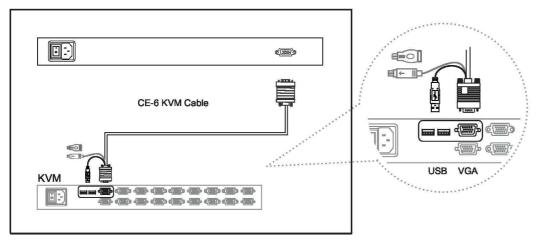


Figure 18. Example of connecting KVMCE-6 4-in-1 Combo KVM cable to KVM via USB interface

#### Remarks:

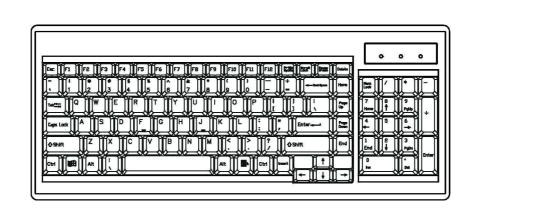
- The above connection is only for the LCD keyboard without KVM switch built-in.
- For the LCD keyboard drawer with KVM switch built-in, please refer to attached KVM switch user manual.

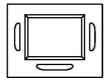


Caution: The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting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

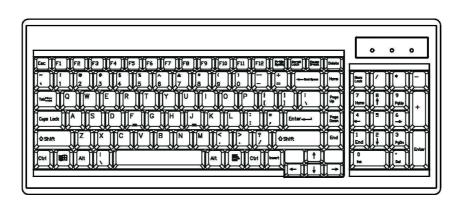
### HRKD-KVM-17 & HRKD-KVM-19

Supporting layouts





**Ne** N keyboard integrated with touchpad

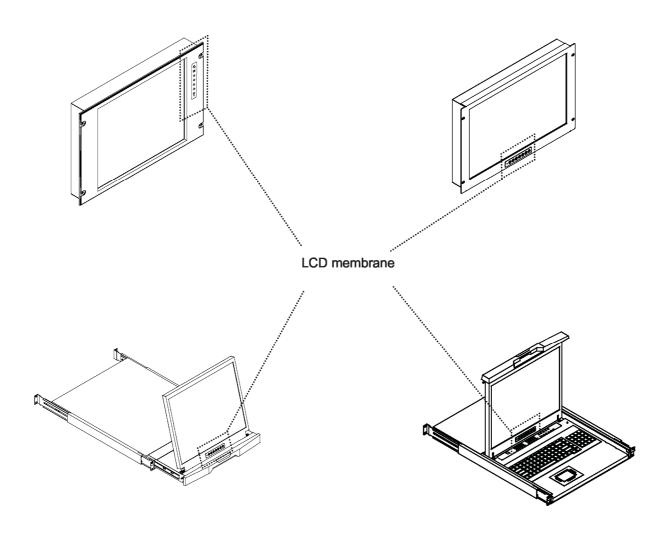




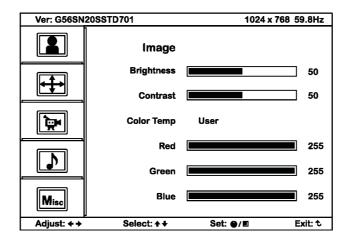
**Nb** N keyboard integrated with trackball

# **6.1 On-screen Display Operation**

RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB RKMTL-1U-17HB & RKMTL-1U-19HB HRKD-KVM-17 & HRKD-KVM-19



Membrane Switch	Function
0	Power light
•	Green = On
•	Orange = Power saving
	Power on / off LCD
M	Display the OSD menu
$\diamondsuit \diamondsuit \Leftrightarrow \diamondsuit$	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button for 5 seconds)
<u></u>	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)



# OSD Conbguration Page

	Image: To enter into the brightness, contrast, color temp, red, green, and blue
	<b>Geometry:</b> To enter into the auto adjust, H position, V position, phase and clock
	Video: To enter into the colour, tint, sharpness, noise reduction, DCDi and TV Setup
	Audio: To enter into volume, bass, treble, balance, AVL and mute
Misc	<b>Misc:</b> To enter into the language, OSD position, graphic mode, ratio, reset and timer

# 7.1 LCD Specifications

#### RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-1U-17HB & RKMTL-1U-19HB HRKD-KVM-17 & HRKD-KVM-19

Item	Description		
LCD Grade	Grade A industrial TFT LCD panel		
Diagonal Size	17"TFT	19"TFT	
Max. Resolution	1280 x 1024	1280 x 1024	
Brightness (cd/m²)	1000	1000	
Color Support	16.7M	16.7 M	
Contrast Ratio (typ.)	800:1	800:1	
Viewing Angle (H/V)	170 <sup>°</sup> x 160 <sup>°</sup>	160° x 160°	
Display Area (mm)	338 x 270	376 x 301	
Tr Response Time (ms)	3.5	1.3	
LCD Panel MTBF (hrs)	70,000	70,000 70,000	
VGA Signal Input	Analog RGB, 0.7Vp-p		
Sync. Type	Separate H/V, Composite, SOG		
	720 x 400, 70 Hz		
	640 x 480, 60/ 70/ 72/ 75 Hz		
	800 x 600, 60/ 70/ 72/ 75 Hz		
Resolution	1024 x 768, 60/ 70/ 75 Hz		
	1152 x 864, 60/ 70/ 75 Hz		
		1280 x 720, 60/ 70/ 75 Hz	
	1280 x 1024, 60/ 70/ 72/ 75 Hz		
Plug & Play DDC	EDID 1.3		
Connector	DB-15 connector		
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz		
Power Consumption	Max. 84 Watt, Standby 5 Watt		
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs.		

### **Options**

Graphic Input	DVI-D, BNC, S-Video & quad display input	
DC Power	DC power input with 12V, 24V, 48V selection	
Touchscreen Resistive & capacitive		

#### **Environmental**

Operation	-20° to 50°C Degree	
Storage	-5° to 60°C Degree	
Relative Humidity	5~90%, non-condensing	
Shock	10G acceleration (11ms duration)	
Vibration	5~500Hz 1G RMS random vibration	

# 7.1 LCD SpeciPcations

### **RKMTL-7U-19WHB & RKMTL-8U-22WHB**

Item	Description		
LCD Grade	Grade A industrial TFT LCD panel		
Diagonal Size	Wide 19" TFT	Wide 22" TFT	
Max. Resolution	1440 x 900	1680 x 1050	
Brightness (cd/m²)	800	800	
Color Support	16.7 M	16.7 M	
Contrast Ratio (typ.)	900:1	900:1	
Viewing Angle (H/V)	160°x 160°	160°x 160°	
Display Area (mm)	408 x 255	474 x 296	
Tr Response Time (ms)	1.3	3.6	
LCD Panel MTBF (hrs)	70,000	70,000	
VGA Signal Input	Analog RG	3, 0.7Vp-p	
Sync. Type	Separate H/V, Co	mposite, SOG	
	720 x 400, 70 Hz		
	640 x 480, 60/ 70/ 72/ 75 Hz		
	800 x 600, 60/ 70/ 72/ 75 Hz		
Resolution	1024 x 768, 60/ 70/ 75 Hz		
Resolution	1152 x 864, 60/ 70/ 75 Hz		
	1280 x 720, 60/ 70/ 75 Hz	1280 x 720, 60/ 75 Hz	
	1280 x 1024, 60/70/75 Hz	1280 x 1024, 60/ 75 Hz	
	1440 x900,60 Hz	1680 x 1050, 60 Hz	
Plug & Play DDC	EDID 1.3		
Connector	DB-15 connector		
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz		
Power Consumption	Max. 84 Watt, Standby 5 Watt		
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs.		

### Options

Graphic Input	DVI-D, BNC, S-Video & quad display input		
DC Power	DC power input with 12V, 24V, 48V selection		
Touchscreen	Resistive & capacitive		

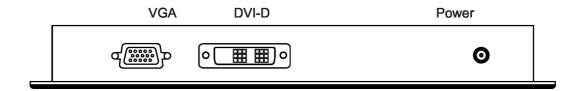
### Environmental

Operation	-20° to 50°C Degree			
Storage	-5° to 60°C Degree			
Relative Humidity	5~90%, non-condensing			
Shock	10G acceleration (11ms duration)			
Vibration	5~500Hz 1G RMS random vibration			

8.1 DVI-D Option

**Chapter 8** 

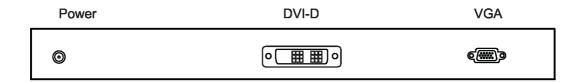
### RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB



#### Remarks

■ Package includes 1 x 6ft DVI-D cable

RKMTL-1U-17HB & RKMTL-1U-19HB HRKD-KVM-17 & HRKD-KVM-19

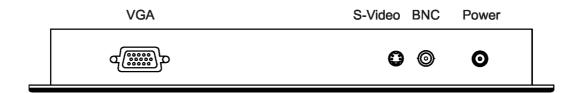


#### Remarks

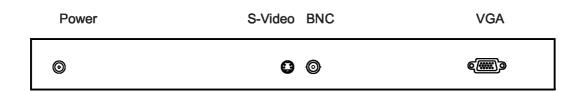
■ Package includes 1 x 6ft DVI-D cable

# 8.2 BNC + S-Video Option

### RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB



RKMTL-1U-17HB & RKMTL-1U-19HB HRKD-KVM-17 & HRKD-KVM-19



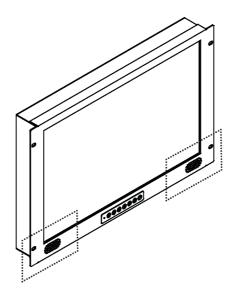
#### Remarks

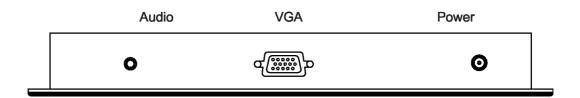
■ Package includes 1 x 6ft S-Video cable

# 8.3 Audio Option

# **Chapter 8**

### RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB





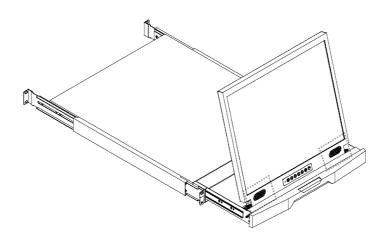
#### Remarks

- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

# 8.3 Audio Option

**Chapter 8** 

RKMTL-1U-17HB & RKMTL-1U-19HB



Power	Audio	VGA
<b>©</b>	0	<b>(****)</b>

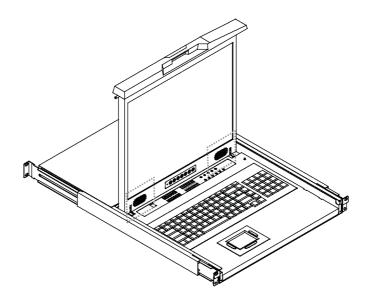
#### Remarks:

- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

# 8.3 Audio Option

# **Chapter 8**

# HRKD-KVM-17 & HRKD-KVM-19



Power	er Audio VGA	
<b>©</b>	•	<b>(</b> )

#### Remarks:

- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

# 9.1 Touchscreen Options

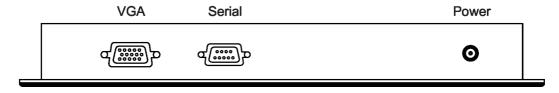


#### RP-H717 & RP-H819 RP-HW719 & RP-HW822

### **USB** interface

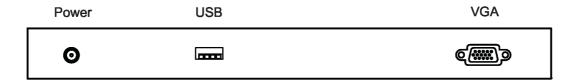


#### **Serial interface**

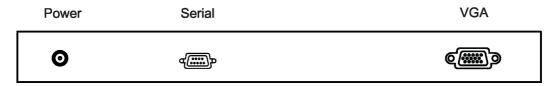


### **RKMTL-1U-17HB & RKMTL-1U-19HB**

### **USB** interface



#### **Serial interface**

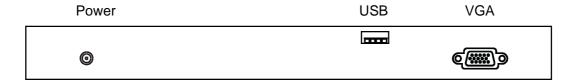


# 9.1 Touchscreen Options

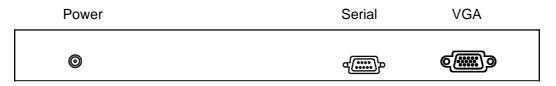


### HRKD-KVM-17 & HRKD-KVM-19 USB

#### interface



#### **Serial interface**



#### e-Resistive

Model	-17TRB / -17TRS	-19TRB / -19TRS	-19WTRB / -19WTRS	-22WTRB / -22WTRS		
Screen size	17"	19"	19" wide	22" wide		
Interface	USB / serial					
Optical transmittance	80% ± 3%					
Surface hardness	≥3H (JIS K5400)					
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux					

#### e-Capacitive

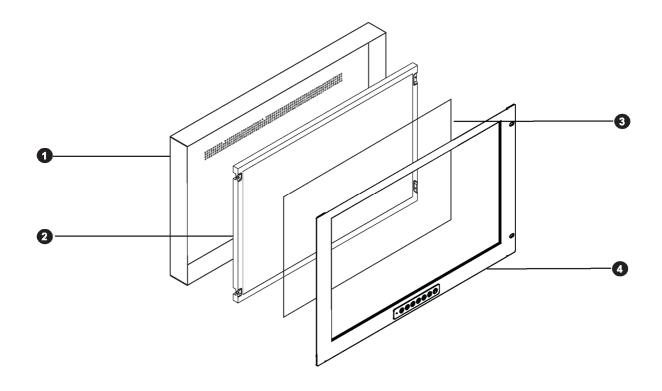
Model	-17TCB / -17TCS	-19TCB / 19TCS	-19WTCB / -19WTCS	-22WTCB / - 22WTCS		
Screen size	17"	19"	19" wide	22" wide		
Interface	USB / serial					
Optical transmittance	93% ± 2%					
Surface hardness	>9H Surface hardness, withstand over 300 million touches					
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux					

#### Remarks

- USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
- Serial touchscreen package includes 1 x 6ft serial cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully
- Touchscreen in other brands are available on request

# 10.1 Front NEMA 4 / IP65 Options

# RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB



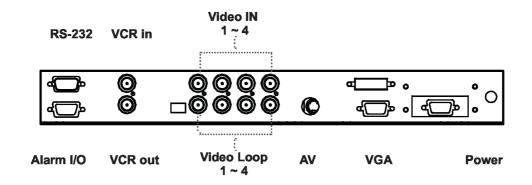
- 1 Rear case
- 2 LCD panel
- 3 4mm protective glass (Front NEMA 4 / IP65 protection)
- 4 Aluminum front panel

#### Remarks

■ 4mm thickness of protective glass is not toughened one, please handle it carefully.

# 11.1 Quad Display Option

# **Specifications**



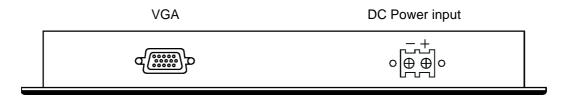
Item		Des	cription		
Model Number	odel Number QD (NTSC) QD (PAL)		QD (PAL)		
Number of Cole	Number of Color 16.7 M 16.7 M		16.7 M		
Imaging Syster	n	NTSC	PAL		
Resolution		1024 x 525	1024 x 625		
Refresh Rate		60	50		
Video Input	Camera Input	1.0 Vpp	, 75 Ohm x 4		
video iripat	VCR Input	1.0 Vpp	, 75 Ohm x 1		
	Live Monitor	1.0 Vpp	, 75 Ohm x 1		
Video Output	Loop Through Out	1.0 Vpp, 75 Ohm x 4			
	VCR Output	1.0 Vpp, 75 Ohm x 1			
Auto Gain Con	trol	Yes			
Time / Date		Yes			
On Screen Display Yes		Yes			
Camera Title 8 Character Title		racter Title			
	2 x Zoom On Playback	Yes			
Display Format	QUAD	Yes			
	FULL	Yes			
	SEQUENCY	Yes			
Dwell Time		0 to 99 Sec Adjustable			
Built-in Buzzer Yes		Yes			
Key Lock Yes		Yes			

#### Remarks

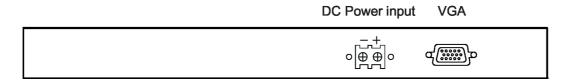
- For more details, please refer to Quad Display User Manual.
- Quad display input is not applicable for HRKD-KVM-17 / 119 series.

# 12.1 DC Power Options

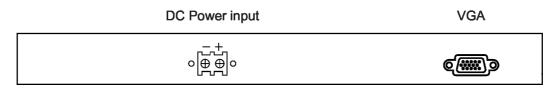
### RKMTL-7U-17HB & RKMTL-8U-19HB RKMTL-7U-19WHB & RKMTL-8U-22WHB



### **RKMTL-1U-17HB & RKMTL-1U-19HB**



#### HRKD-KVM-17 & HRKD-KVM-19



Model	24V	48V	
Input rating			
Input voltage:	24-Volt	48-Volt	
Input range:	18 — 36V	36 — 75V	
Input current			
- No load	50 mA	50 mA	
- Full load	4880 mA	2442 mA	
Output rating			
Output voltage:	12-Volt	12-Volt	
Output current:	8.3A	8.3A	
Efficiency	85%	86%	

#### Remarks

■ Package does not include power cord and AC power adapter

# 13.1 Dimensions RKMTL-7U-17HB & RKMTL-8U-19HB

### **RKMTL-7U-19WHB & RKMTL-8U-22WHB**

### **RKMTL-1U-17HB & RKMTL-1U-19HB**

### HRKD-KVM-17 & HRKD-KVM-19

Model	Product Dimension (W x D x H)		Packing Dimension (W x D x H)	Net Weight	Gross Weight
RKMTL-7U-17HB series	480 x 57 mm 18.9 x 2.2"	7U	565 x 450 x 156 mm 22.2 x 17.7 x 6.1"	7 kg 15 lb	8.5 kg 19 lb
RKMTL-8U-19HB series	480 x 57 mm 18.9 x 2.2"	8U	565 x 495 x 156 mm 22.2 x 19.5 x 6.1"	8 kg 18 lb	10 kg 22 lb
RKMTL-7U-	480 x 57.5	7U	565 x 450 x 156 mm	8 kg	10 kg
19WHB series	18.9 x 2.3"		22.2 x 17.7 x 6.1"	18 lbs	22 lb
RKMTL-8U-	500.4 x 59.1	8U	565 x 539 x 156 mm	12 kg	15 kg
22WHB series	19.7 x 2.3"		22.2 x 21.2 x 6.1"	26 lbs	33 lb
RKMTL-1U-17HB series	442 x 600 x 44.2 mm		581 x 755 x 172 mm	12 kg	17 kg
	17.4 x 23.6 x 1.74"		22.9 x 29.7 x 6.8"	26 lb	37 lb
RKMTL-1U-19HB series	442 x 600 x 44 mm		581 x 755 x 172 mm	13 kg	18 kg
	17.4 x 23.6 x 1.73"		22.9 x 29.7 x 6.8"	29 lb	40 lb
HRKD-KVM-17 series	442 x 650 x 44 mm		589 x 856 x 168 mm	16 kg	22 kg
	17.4 x 25.6 x 1.73"		23.2 x 33.7 x 6.6"	35 lb	48 lb
HRKD-KVM-19	442 x 650 x 44 mm		589 x 856 x 168 mm	16 kg	22 kg
series	17.4 x 25.6 x 1.73"		23.2 x 33.7 x 6.6"	35 lb	48 lb

### 14.1 Troubleshooting

# **Chapter 14**

#### 1. How do I adjust the resolution?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

#### 2. Is interference signal appeared on LCD normal when shutting down the computer?

In rare cases, interference 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 manually.

#### 3. The membrane power light is not ON

Press the power On / Off on LCD membrane to check if the monitor is in the ON mode. Check the power cord is properly connected to the LCD drawer and power outlet.

#### 4. 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.

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