

User Manual

RWX119 – Series



Features & Benefits:

- 1U short depth design console, server rack or relay rack mounted
- 19" Widescreen Samsung CCFL LCD w/ Hi-Resolution (1440 x 900)
- Modular scalability: KVM Switch, Peripherals & More
- Combo interface w/ PS/2 or USB input w/ front USB port access
- New easy maneuver front handle
- 6 foot Combo KVM cable included

Modular Scalability

- Multi-platform KVM switch capability: PS/2, USB or Sun
- Mouse: Touchpad(e) or Trackball(b)
- Keyboard available in 13 languages
- DC power options: 48V, 24V or 12V
- DVI-D + VGA Broadcast-grade input
 - or DVI-D + SDI
 - or DVI-D + Audio
 - or DVI-D + S-Video + Composite (BNC)
 - o or HDMI with speaker

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1.1 Important Safeguards

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 Regulatory Notice

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.

CAUTION: Slide/rail mounted equipment is not to be used as a shelf or a work space.



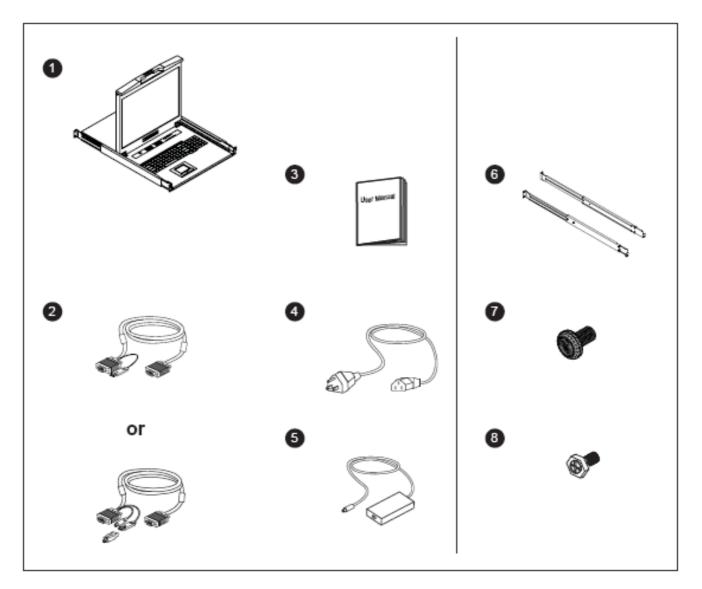
Regulatory Notices Federal Communications Commission (FCC)

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) LCD keyboard drawer x 1 pc
- 2) RCB-6 USB 2-in-1 KVM cable x 1 pc or RCE-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) M3.2*6mm screw x 4 pcs

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

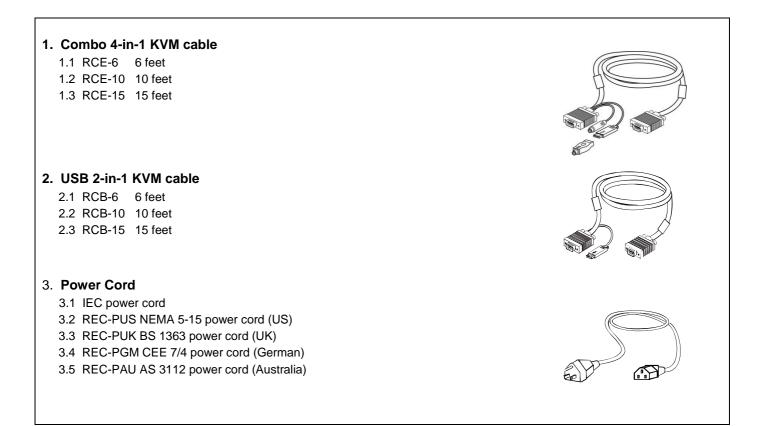
1.4 Before Installation

- It is very important to place the LCD Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the location is well ventilated, out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Position LCD Keyboard Drawer with respect to related facilities.

1.5 Unpacking

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

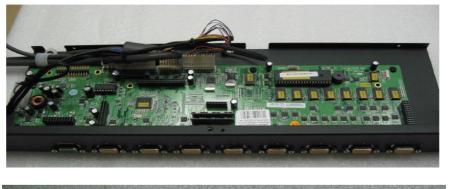
1.6 Optional Accessories

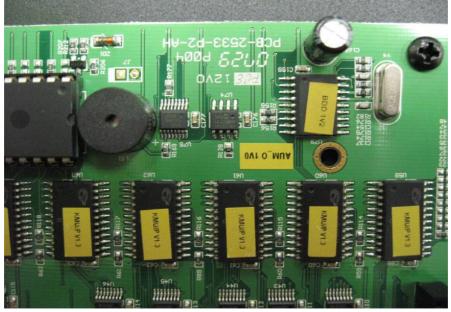


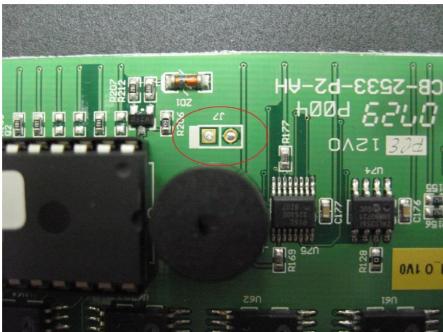
1.7 Default KVM Password & Reset Diagram

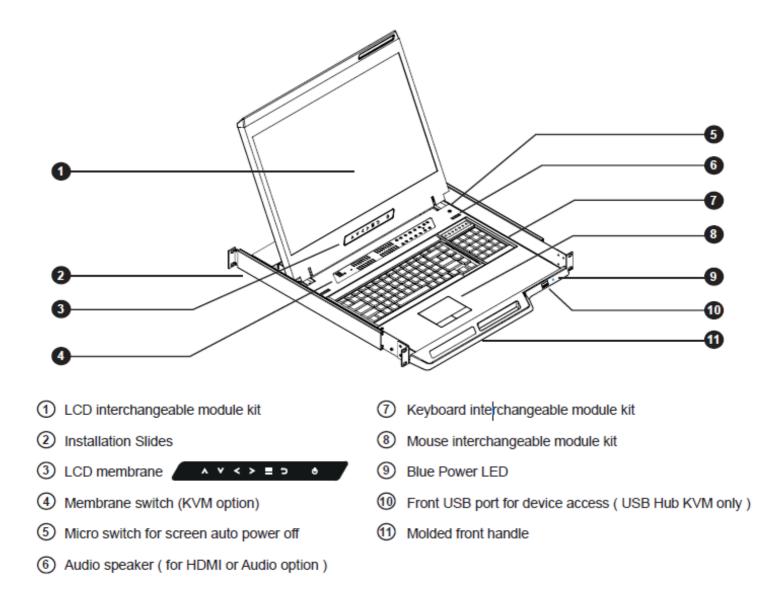
The user name & password can be reset to default "00000000" (8 digits of zero via keyboard not 10Key)

- 1) The KVM password can be reset on the KVM PCB board
- 2) Open the KVM top metal cover
- 3) Find the jumper J7, then use either paper clip or scissors to touch the two boxes of J7 in order to close/short the jumper 5 ~ 10 second

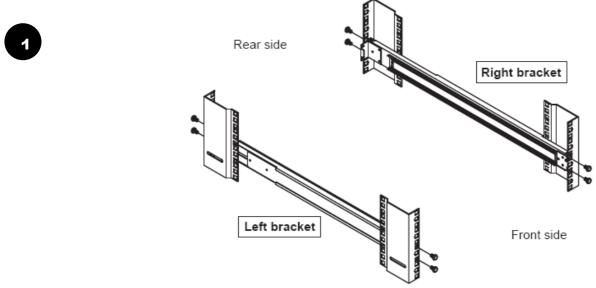








1.9 Installation

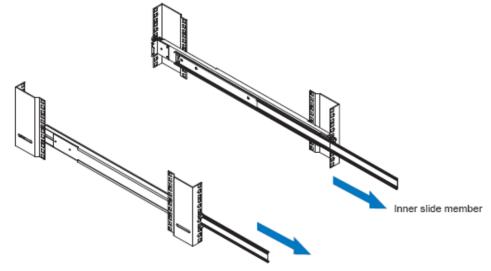


- Attach the *left and right mounting bracket* to rack 19" mounting rails
- Adjust the mounting bracket to fit your rack
- M6 screw x 8pcs included

2

Caution: Leaving all M6 screw slightly loose, until you complete the installation in step





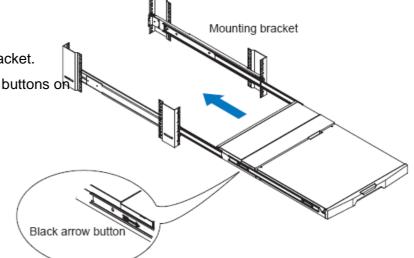
Pull out left & right inner slide members

Inner slide member

1.9 Installation (continued)

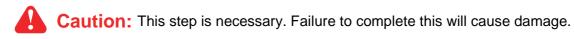
3

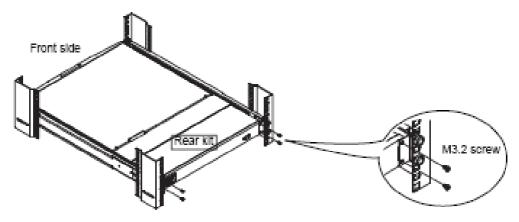
- Pick up the LCD tray.
- Insert the LCD tray into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD tray to park position.





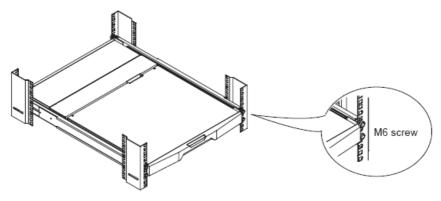
• Fix the *rear kit* to the mounting bracket by M3.2 screw x 4 pcs included.



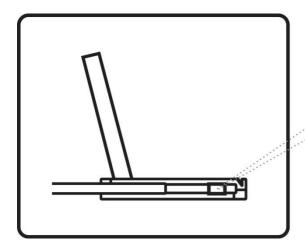


5 Complete the installation

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



1.10 How to use the slides





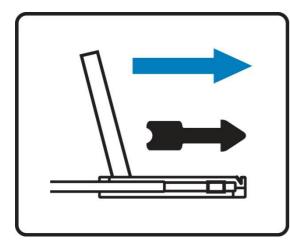
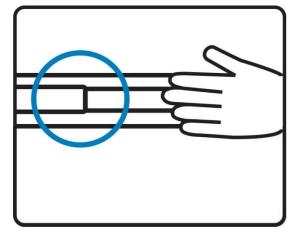


Figure 2.





 A black arrow release button is located on the outside of each slide. (shown in Figure 1).

 Pull and hold the black arrow button on either side of the LCD keyboard drawer to unlock. (shown in Figure 2).



1.11 How to use the LCD Keyboard Drawer



Figure 4. Sliding out the LCD keyboard drawer by pressing the carry handle button first.

 Press the carry handle button. Gently pull the carry handle toward the front of the LCD. (shown in Figure 4)



Figure 5. Flipping up the LCD to a suitable angle.

Flip up the LCD to a suitable angle. (shown in Figure 5)



Figure 6. Operating the LCD keyboard drawer

Operate the LCD keyboard drawer. (shown in Figure 6)

1.12 RWX119 (Single console) – PS/2 Server Connection

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

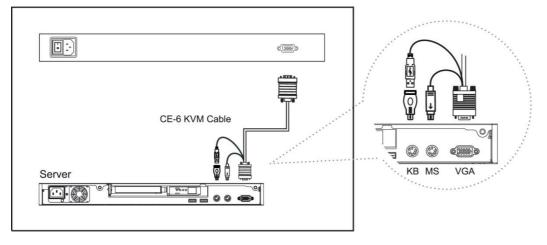


Figure 9. Example of connecting RCE-6 4-in-1 Combo KVM cable to server via PS/2 interface

1.13 RWX119 (Single console) – PS/2 KVM Connection

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

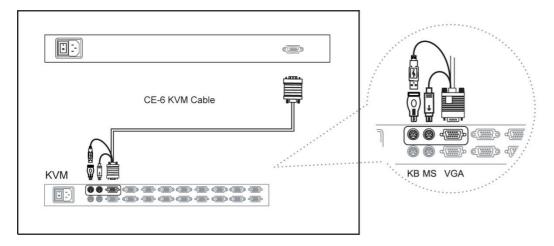


Figure 10. Example of connecting RCE-6 4-in-1 Combo KVM cable to KVM via PS/2 interface

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.

1.14 RWX119 (Single console) – USB Server Connection

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

*- Note: if you requested the RCB-6 it is a USB only connection

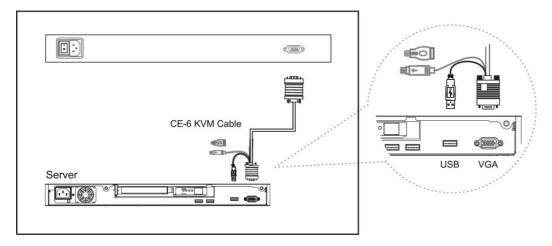


Figure 11. Example of connecting RCE-6 4-in-1 Combo KVM cable to server via USB interface

1.15 RWX119 (Single console) – USB KVM Connection

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

*- Note: if you requested the RCB-6 it is a USB only connection

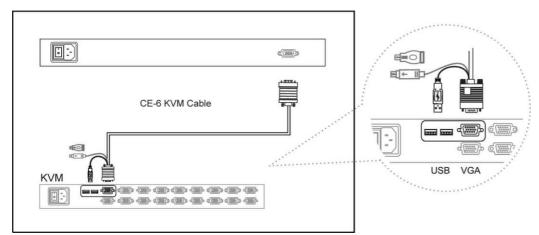


Figure 12. Example of connecting RCE-6 4-in-1 Combo KVM cable to KVM via USB interface

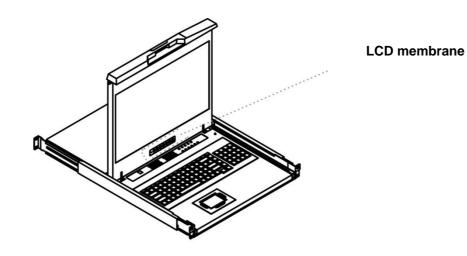
Remarks:

- 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.

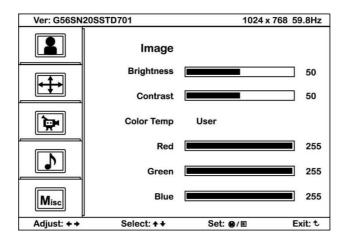
Caution: The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting 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.

Chapter 2 Operation

2.1 On-screen Display Operation



Membrane Switch	Function
0	Power light
•	Green = On
•	Orange = Power saving
Ç	Power on / off LCD
	Display the OSD menu
${\Bbb A}{\Bbb V}{\Bbb A}{\Bbb B}$	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button $\langle i \rangle$ for 5 seconds)
Ũ	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)



OSD Configuration Page

	Image: To enter into the brightness, contrast, colour temp, red, green, and blue
	Geometry: 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	Misc: To enter into the language, OSD position, graphic mode, OSD time, ratio, reset and timer

Chapter 3 Standard Specifications **3.1 Specifications**

5.1 Specifications							
Item	Description						
Form Factor	1U rack mounting on slide-out rails						
LCD Manufacturer	SAMSUNG						
Series	RWX						
Diagonal Size	Wide 19" TFT color LCD						
Max Resolution	1440 x 900						
Color Support	16.7 M						
Contrast Ratio (typ.)	1000:01:00						
Viewing Angle (H/V)	80/80/80						
Display Area (mm)	408H.24H x 255.15V						
Tr Response Time (ms)	5						
LCD Panel MTBF (hrs)	50,000						
VGA Signal Input	Analog RGB, 0.7Vp-p						
Sync. Type	Separate H/V, Composite, SOG						
Resolution	1440 x 900 x 60Hz						
	1280 x 1024 x 60 / 75Hz						
	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						
Plug & Play DDC	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						
	DVI/VGA VESA EDID 1.3 structure 1.3						
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz						
Power Consumption	Max. 25 Watt, Standby 4 Watt, Off 1 Watt						
Compatibility	Multi-platform – Mix PCs, SUNs, IBMs, HPs & DELLs.						
Regulation Approval	FCC, CE, cUL						
Environmental	RoHS2 & REACH compliant						

Video Connection

Digital	HDMI	HDMI 1.1, CEA-861-D		
	DVI	DVI DVI-D, TMDS single link		
Analog	Analog VGA Analog 0.7Vp-p	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		

Audio Connection

Audio Input	Connector	3.5mm stereo jack		
	Impedence/ Power level	30k Ω/ 750mV		
Audio Output	Connector	3.5mm stereo jack		
Resistance/ Power level		30k Ω/ 2.8V		
Speaker Output Power		2x2W		

3.2 Keyboard & Mouse

Supporting languages

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Supporting layouts

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Chapter 4 Optional Specifications

4.1 KVM Integration Options

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

Matrix	Local	Remote	IP	8-port	16-port	32-port
	1	1	1	-	RWX119 - CATx31116	RWX119 - CATx31132
Cat6 KVM	1	1	2	-	RWX119 - CATx41216	RWX119 - CATx41232
	1	1	0	-	RWX119 - CATx21016	RWX119 - CATx21032
	1	2	0	-	RWX119 - CATx32016	RWX119 - CATx32032
	1	3	0	-	RWX119 - CATx43016	RWX119 - CATx43032
		•			1	1
Combo	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	RWX119 - CATx10108	RWX119 - CATx10116	RWX119 - CATx10132
Cat6 KVM	1	1	0	RWX119 - CATx11008	RWX119 - CATx11016	RWX119 - CATx11032
	4	0	0	RWX119 - CATx10008	RWX119 - CATx10016	RWX119 - CATx10032

Cat6 KVM Dongle : RDG-100S (VGA-USB)/ RDG-100 (VGA-PS/2)/ RDG-100SD (DVI-USB)

Matrix C	Local	Remote	IP	8-port	16-port	32-port
DB-15 KVM	1	1	1	RWX119 - KVM31108	RWX119 - KVM31116	-
DB-15 KVW	1	1	2	RWX119 - KVM41208	RWX119 - KVM41216	-
	1	1	0	RWX119 - KVM21008	RWX119 - KVM21016	-
	1	2	0	RWX119 - KVM32008	RWX119 - KVM32016	-
	1	3	0	RWX119 - KVM43008	RWX119 - KVM43016	-

Combo <	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	RWX119 - KVM10108	RWX119 - KVM10116	-
DB-15 KVM	1	1	0	RWX119 - KVM11008	RWX119 - KVM11016	-
	1	0	0	RWX119 - KVM10008	RWX119 - KVM10016	-

Combo DB-15 KVM Cable : RCE-6/10/15 (6, 10 or 15 ft.)

DVI-D	∘ ∰∰∰#) ∘	Local	Remote	IP	12-port	-	-	
кум	a	1	0	0	RWX119 - DVIKVM112	-	-	

DVI-D KVM Cable : RCI-6/15 (6 or 15 ft.)

4.2 DVI-D Option

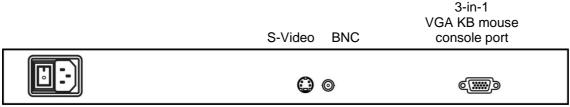
 3-in-1 VGA KB mouse DVI-D console port
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Remarks:

- Package includes 1 x 6ft DVI-D cable
- Either HDMI or DVI-D can be selected.
- For the above option casing depth will be extended from 460mm (18.1") to 530mm (20.9")

0 :-- 4

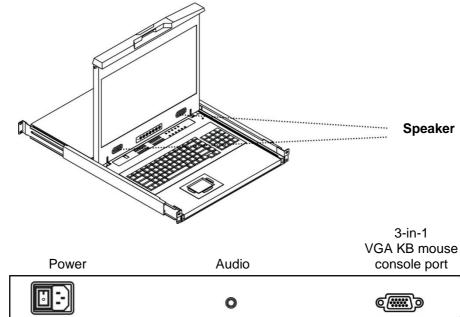
4.3 BNC + S-Video Option



Remarks:

Package includes 1 x 6ft S-Video cable

4.4 Audio Option



Remarks:

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

4.5 HDMI Option

		HDMI	3-in-1 VGA KB mouse console port
Power	Audio S-Video BNC		DVI-D (•◯ ⊞ ∎)•
	PC Video		

Remarks:

- Either HDMI or DVI-D can be selected.
- For the above option casing depth will be extended from 460mm (18.1") to 530mm (20.9")

4.6 DC Power Options

0	$\oplus \oplus$	0

Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

Remarks:

Package does not include power cord and AC power adapter

Chapter 5 Troubleshooting

1. 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.

2. 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 keyboard drawer and power outlet.

3. Screen image is not centered or sized properly

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

4. 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.

5. 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", "1440 x 900", are determined by the display card in your computer.

Chapter 6 Dimensions

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RWX119 Series	17.4W x 18.1D x 1.73H in.	23.2 x 30.2 x 5.5 in.	25 lbs	36 lbs
	(442 x 460 x 44 mm.)	(590 x 768 x 140 mm.)	(11.5kgs)	(16.3kgs)

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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