

## User Manual



### RW119 – Series

- 1U widescreen 19" LCD keyboard drawer
- Combo interface PS/2 or USB input
- Keyboard available in 13 international languages
- Resolution up to 1440 x 900
- Full range of KVM options

### RWS119 – Series

- 1U widescreen 19" LCD keyboard drawer
- Direct support for SUN Micro 1152 x 900 native resolution
- Combo interface PS/2 or USB input
- SUN key support including Stop, Cut, Paste, Compose etc
- Full range of KVM options



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### Raloy Rack Console with Integrated Matrix CAT5/6 KVM 16 or 32 Ports

<b>RW119- Widescreen Series</b>	RW119- MU1602 / MU1603 / MU1604	RW119- MU3202 / MU3203 / MU3204
<b>RWS119- Sun Solaris Series</b>	RWS119- MU1602 / MU1603 / MU1604	RWS119- MU3202 / MU3203 / MU3204

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## Chapter 1 Getting Started

### 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.**



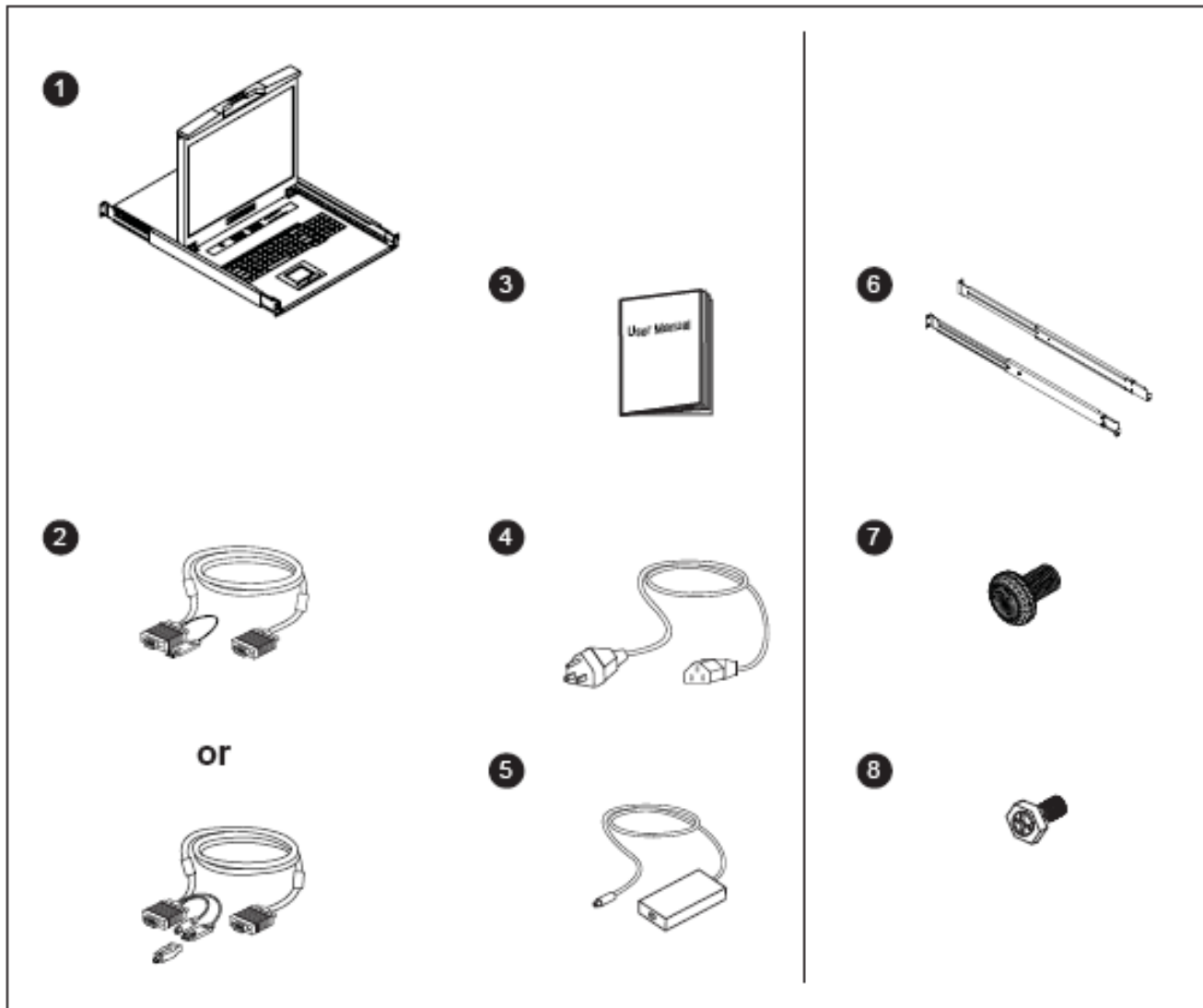
### Regulatory Notices Federal Communications Commission (FCC)

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.

### 1.3 Package Contents



- 1) LCD keyboard drawer w/ integrated KVM Switch x 1 pc
- 2) Screw M3.2 x 4 pcs
- 3) Screw M4 x 10mm x 8pcs
- 4) Bracket x 1 set
- 5) User Manual x 1 pc
- 6) 12V Power Adapter
- 7) Receiver x 1 set (MU1602 / MU3202)  
Receiver x 2 set (MU1603 / MU3203)  
Receiver x 3 set (MU1604 / MU3204)
- 8) **RDG-100S**- USB Dongle for CAT5/6 KVM x 8 pcs (MU1602 / MU1603 /MU1604)
- 9) **RDG-100S**- USB Dongle for CAT5/6 KVM x 16 pcs (MU3202 / MU3203 / MU3204)
- 10) **RCE-6** Combo 4-in-1 KVM cable x 1 pcs (MU1602 / MU3202)  
**RCE-6** Combo 4-in-1 KVM cable x 2 pcs (MU1603 / MU3203)  
**RCE-6** Combo 4-in-1 KVM cable x 3 pcs (MU1604 / MU3204)

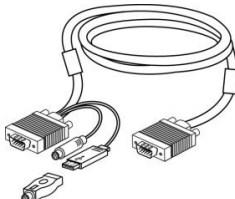
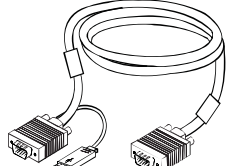

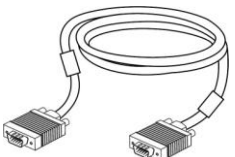
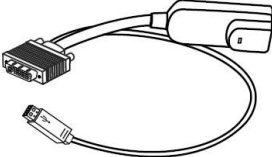
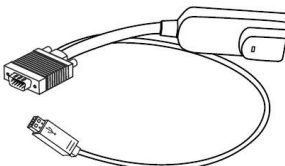
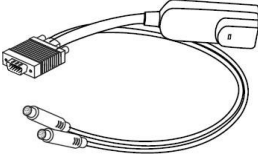
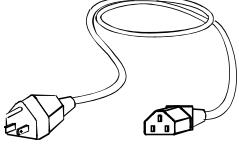
## 1.4 Before Installation

- 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.

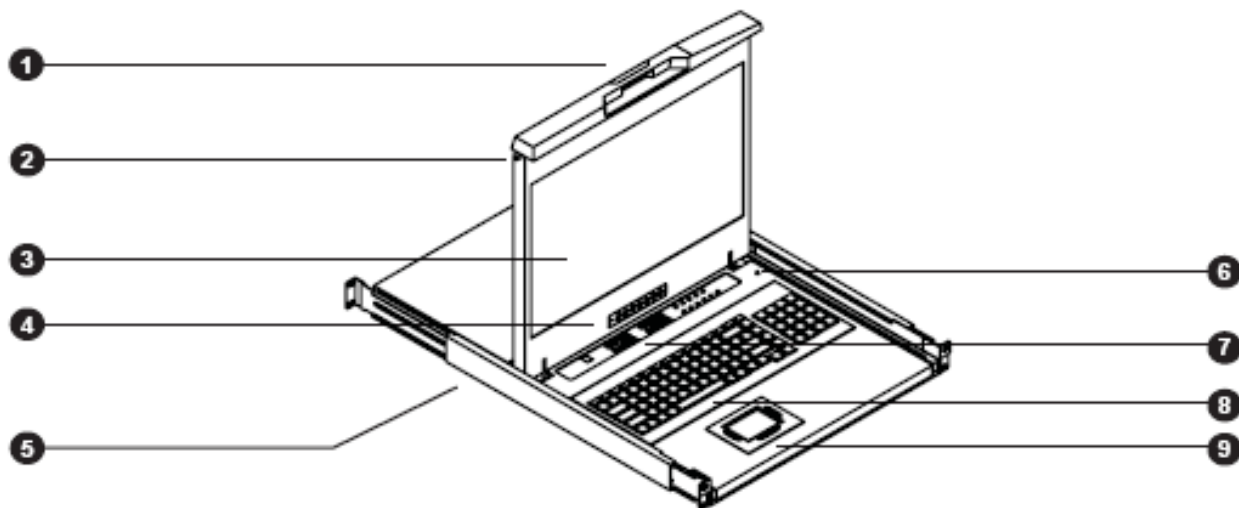
## 1.5 Unpacking

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

<p><b>1. Combo 4-in-1 KVM Cable (For RW-Series)</b></p> <ul style="list-style-type: none"> <li>1.1 RCE-6      6 feet</li> <li>1.2 RCE-10    10 feet</li> <li>1.3 RCE-15    15 feet</li> </ul>	
<p><b>2. USB 2-in-1 KVM cable (For RWS-Series)</b></p> <ul style="list-style-type: none"> <li>2.1 RCB-6      6 feet</li> <li>2.2 RCB-10    10 feet</li> <li>2.3 RCB-15    15 feet</li> </ul>	
<p><b>3. CAT5 cable</b></p> <ul style="list-style-type: none"> <li>3.1 RCU-3      3 feet</li> <li>3.2 RCU-6      6 feet</li> <li>3.3 RCU-10     10 feet</li> <li>3.4 RCU-15     15 feet</li> <li>3.5 RCU-33     33 feet</li> <li>3.6 RCU-66     66 feet</li> </ul>	
<p><b>4. Combo KVM cascade cable</b></p> <ul style="list-style-type: none"> <li>4.1 RCBC-6     6 feet</li> </ul>	
<p><b>5. DVI-USB dongle for CAT5/6 KVM</b></p> <ul style="list-style-type: none"> <li>5.1 RDG-100SD</li> </ul>	
<p><b>6. VGA-USB dongle for CAT5/6 KVM</b></p> <ul style="list-style-type: none"> <li>6.1RDG-100S</li> </ul>	
<p><b>7. VGA-PS/2 dongle for CAT5/6 KVM</b></p> <ul style="list-style-type: none"> <li>7.1 RDG-100</li> </ul>	
<p><b>8. Power cord</b></p> <ul style="list-style-type: none"> <li>8.1 IEC power cord</li> <li>8.2 NEMA5-15 power cord</li> </ul>	

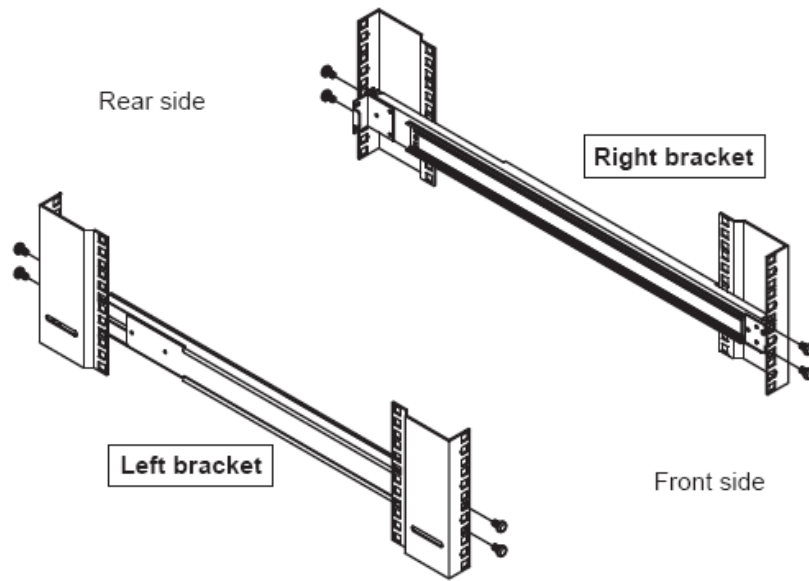
## 1.7 LCD Rackmount Structure Diagram



1. Carry handle to release the two-point lock
2. Two-point lock
3. LCD interchangeable module kit
4. LCD membrane
5. "One Man" Installation Slide
6. Micro switch for screen auto power off
7. Keyboard interchangeable module kit
8. Membrane switch (KVM option)
9. Mouse interchangeable module kit

## 1.8 Installation

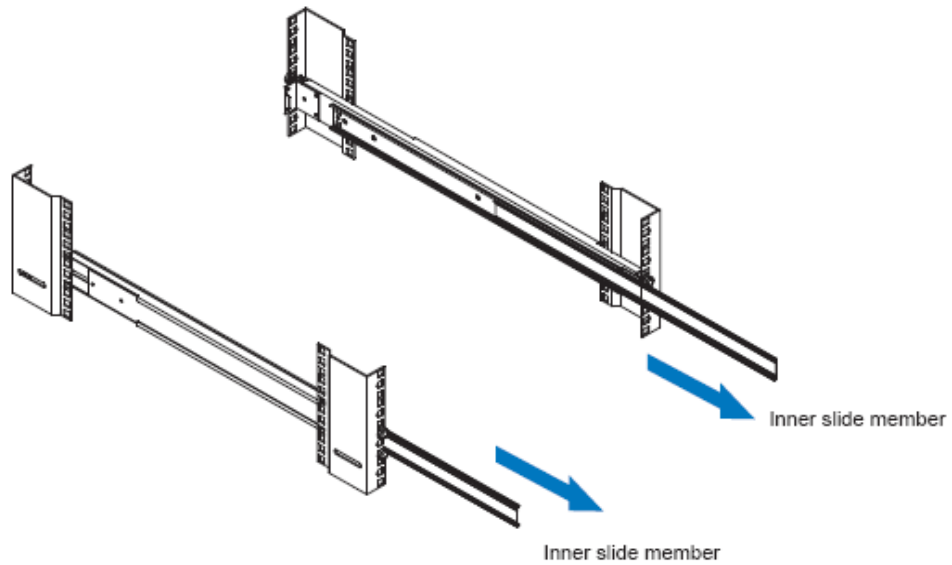
1



- 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

**!** **Caution:** Leaving all M6 screw slightly loose, until you complete the installation in step 5

2

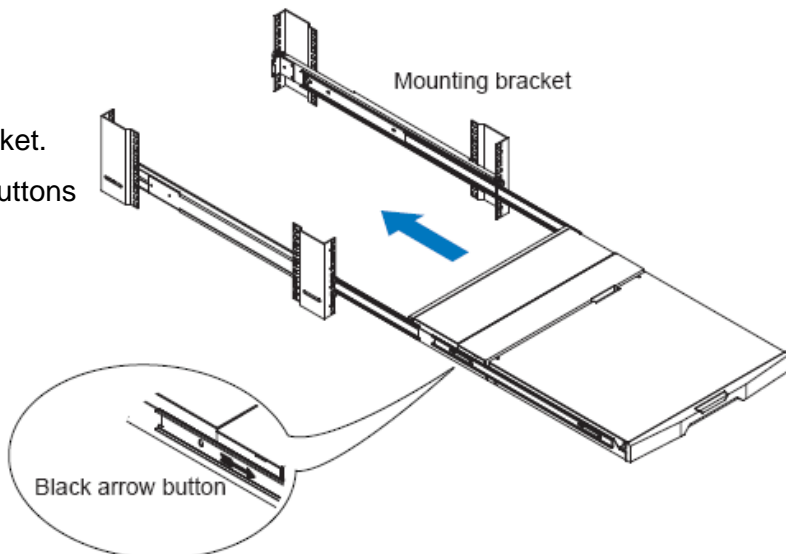


- Pull out left & right inner slide members

## 1.9 Installation (continued)

3

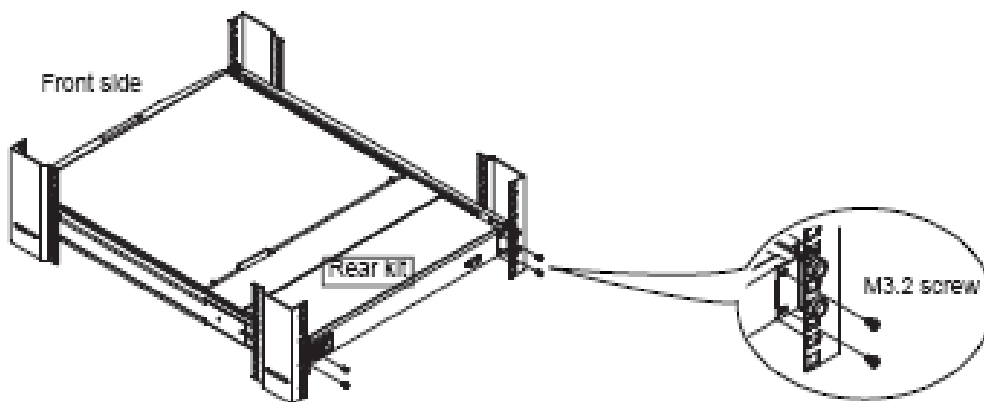
- Pick up the LCD tray.
- Insert the LCD tray into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD tray to park position.



4

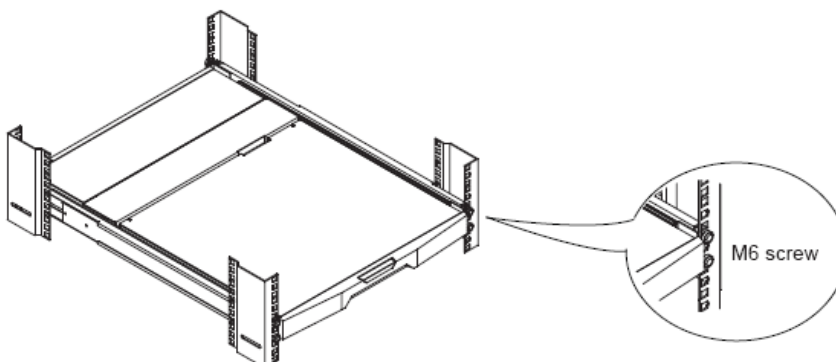
- Fix the **rear kit** to the mounting bracket by M3.2 screw x 4 pcs included.

**Caution:** This step is necessary. Failure to complete this will cause damage.



## 5 Complete the installation

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



### 1.10 How to use the slides

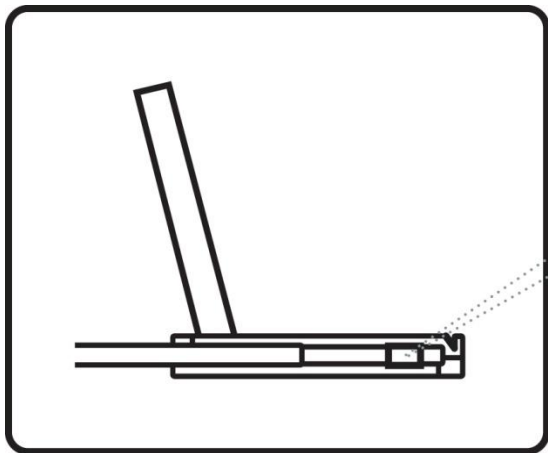


Figure 1.

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

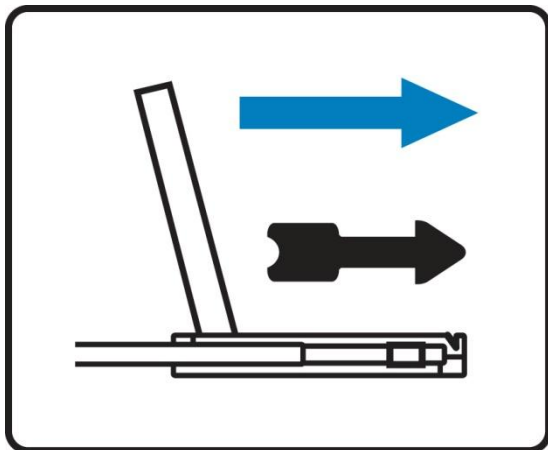


Figure 2.

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

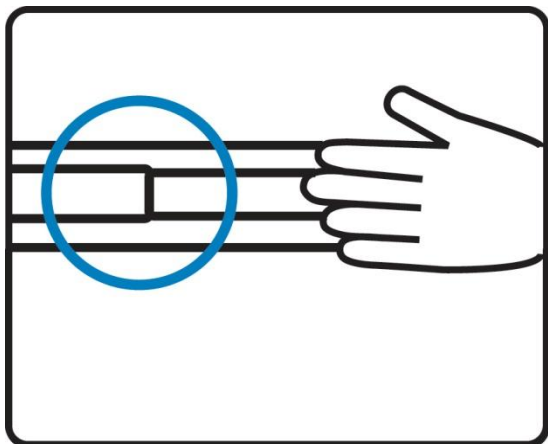



Figure 3.

- Push the LCD keyboard drawer into the rack. (Shown in **Figure 3**).
-  **Caution** : Keep your fingers away from the slide stop

## 1.11 How to use the LCD Keyboard Drawer



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

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



- Flip up the LCD to a suitable angle. (shown in **Figure5**)

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

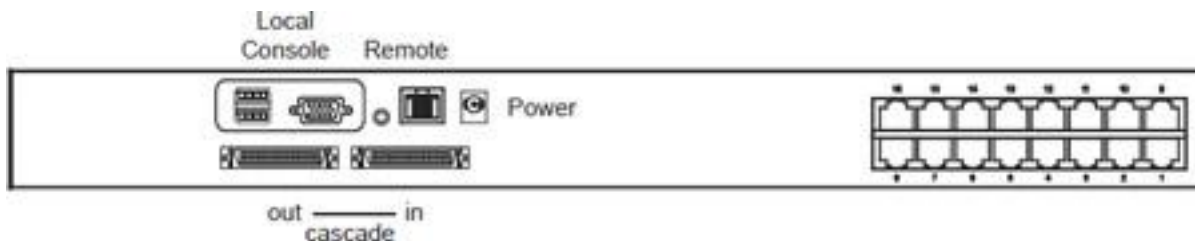


- Operate the LCD keyboard drawer. (shown in **Figure 6**)

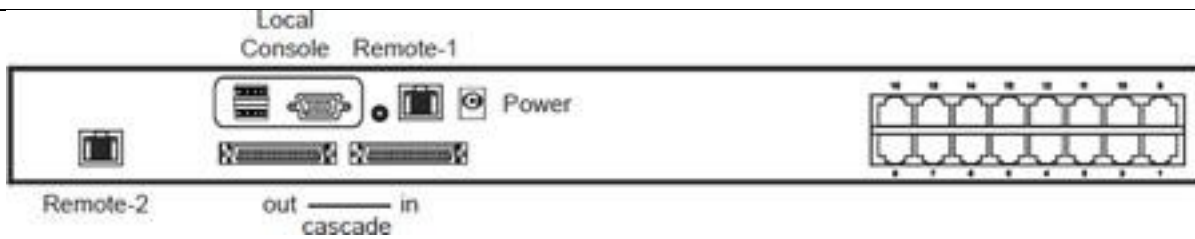
**Figure 6.** Operating the LCD keyboard drawer

### 1.12 KVM Model Connection Diagrams

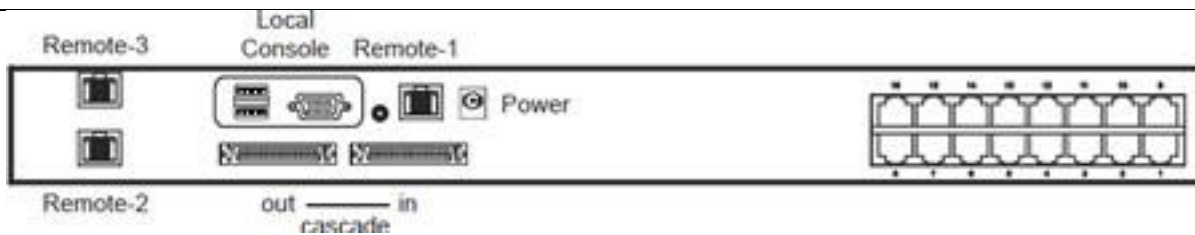
RW / RWS119-  
MU 1602  
16 – Port KVM  
(1 local +  
1 CAT5/6 remote)



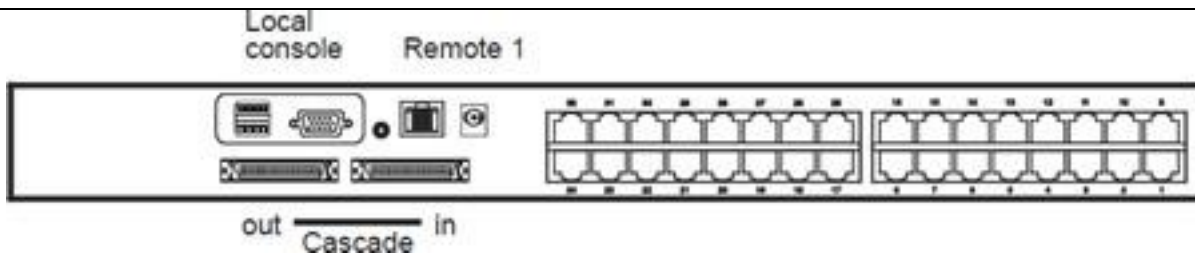
RW / RWS119-  
MU 1603  
16 – Port KVM  
(1 local +  
2 CAT5/6 remote)



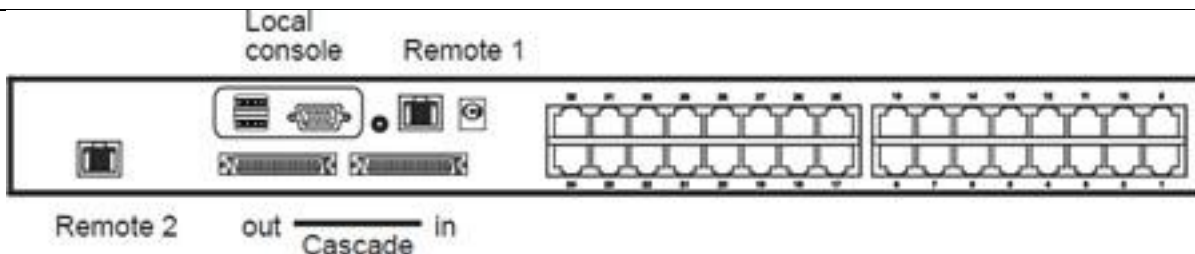
RW / RWS119-  
MU 1604  
16 – Port KVM  
(1 local +  
3CAT5/6 remote)



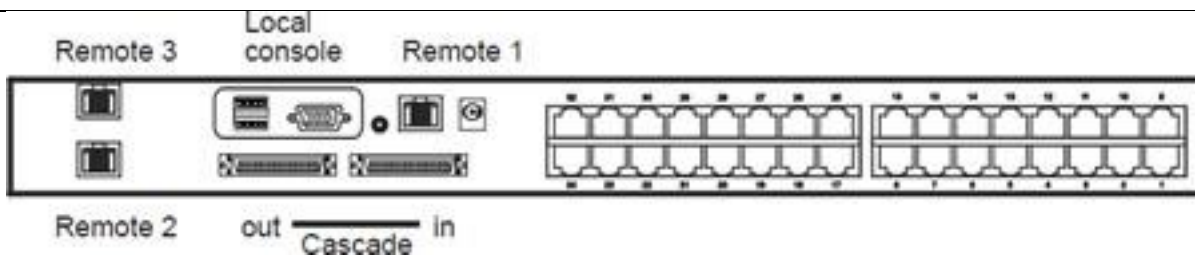
RW / RWS119-  
MU 3202  
32 – Port KVM  
(1 local +  
1 CAT5/6 remote)



RW / RWS119-  
MU 3203  
32 – Port KVM  
(1 local +  
2 CAT5/6 remote)



RW / RWS119-MU  
3204  
32 – Port KVM  
(1 local +  
3 CAT5/6 remote)





### 1.14 KVM Diagrams

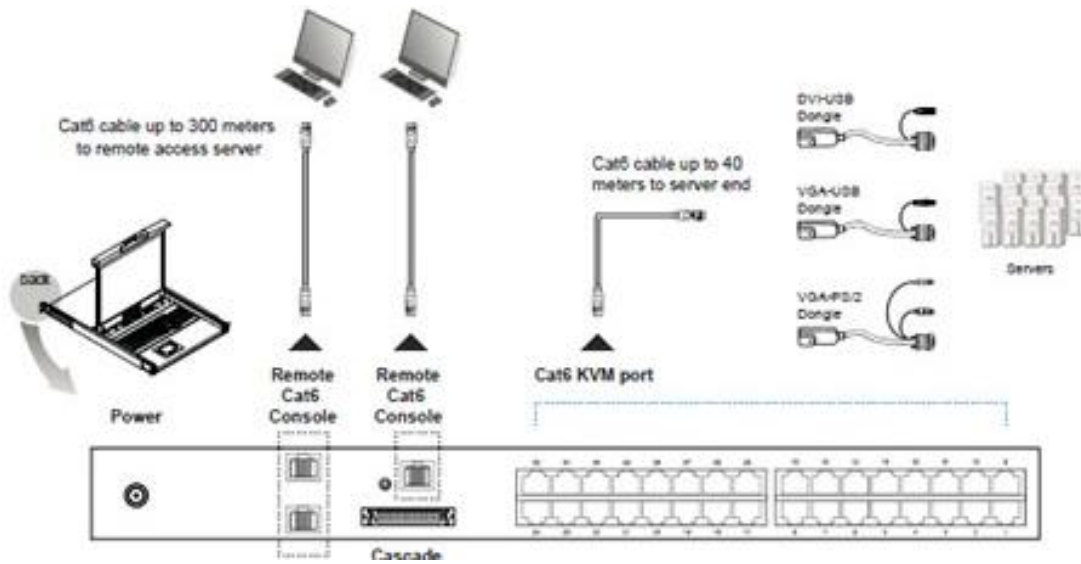
**Models:**

**RW119-MU3202**  
**RWS119-MU3202**

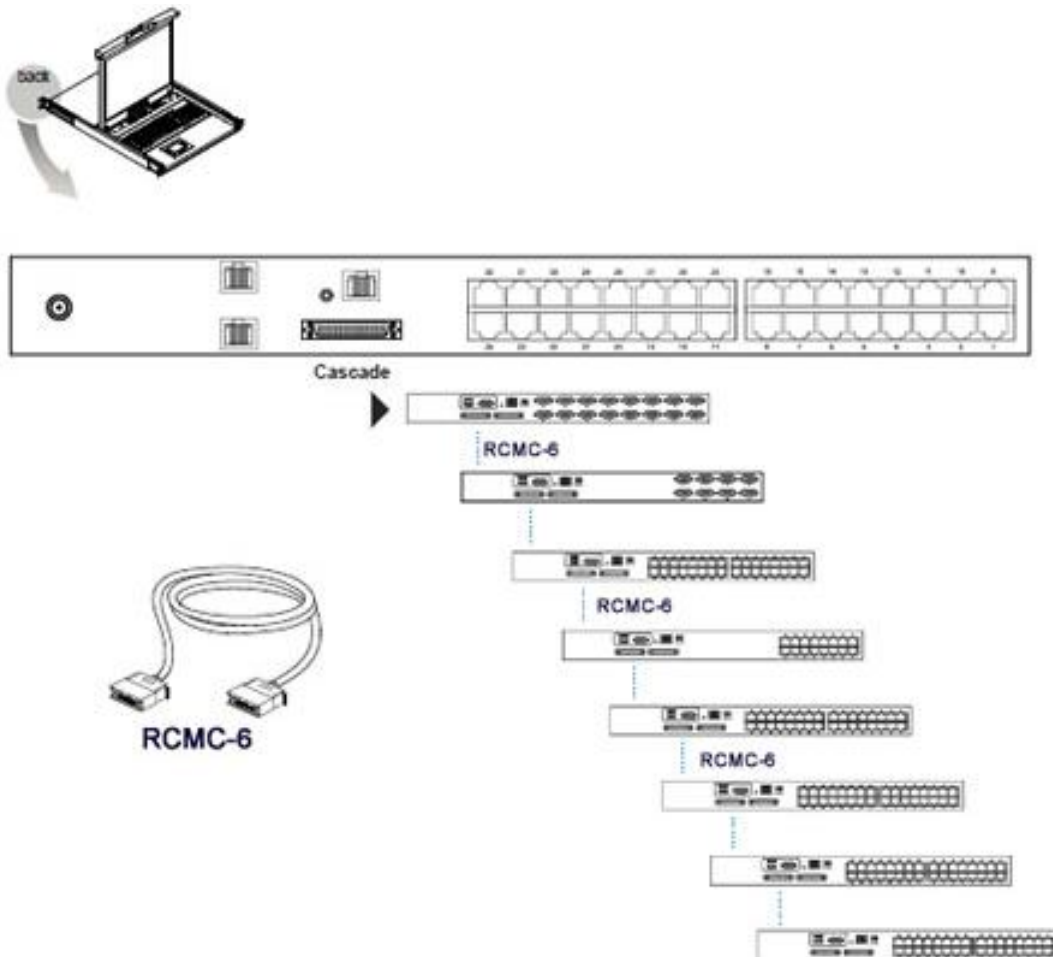
**RW119-MU3203**  
**RWS119-MU3203**

**RW119-MU3204**  
**RWS119-MU3204**

**KVM Server Connection**

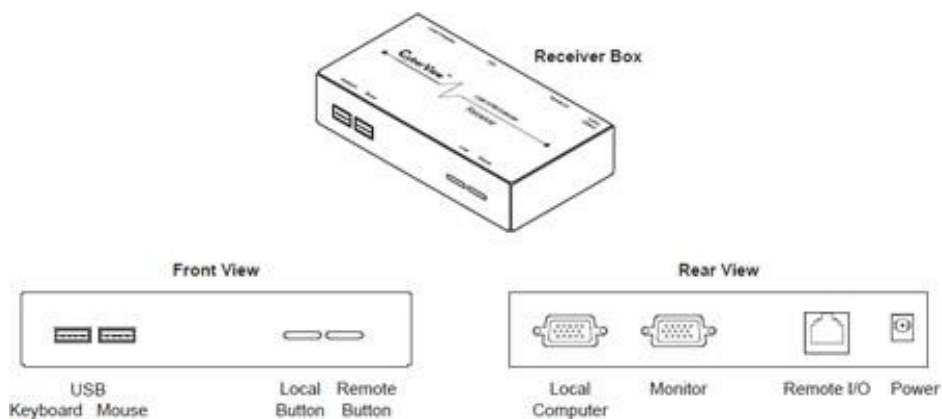


**KVM Cascade**

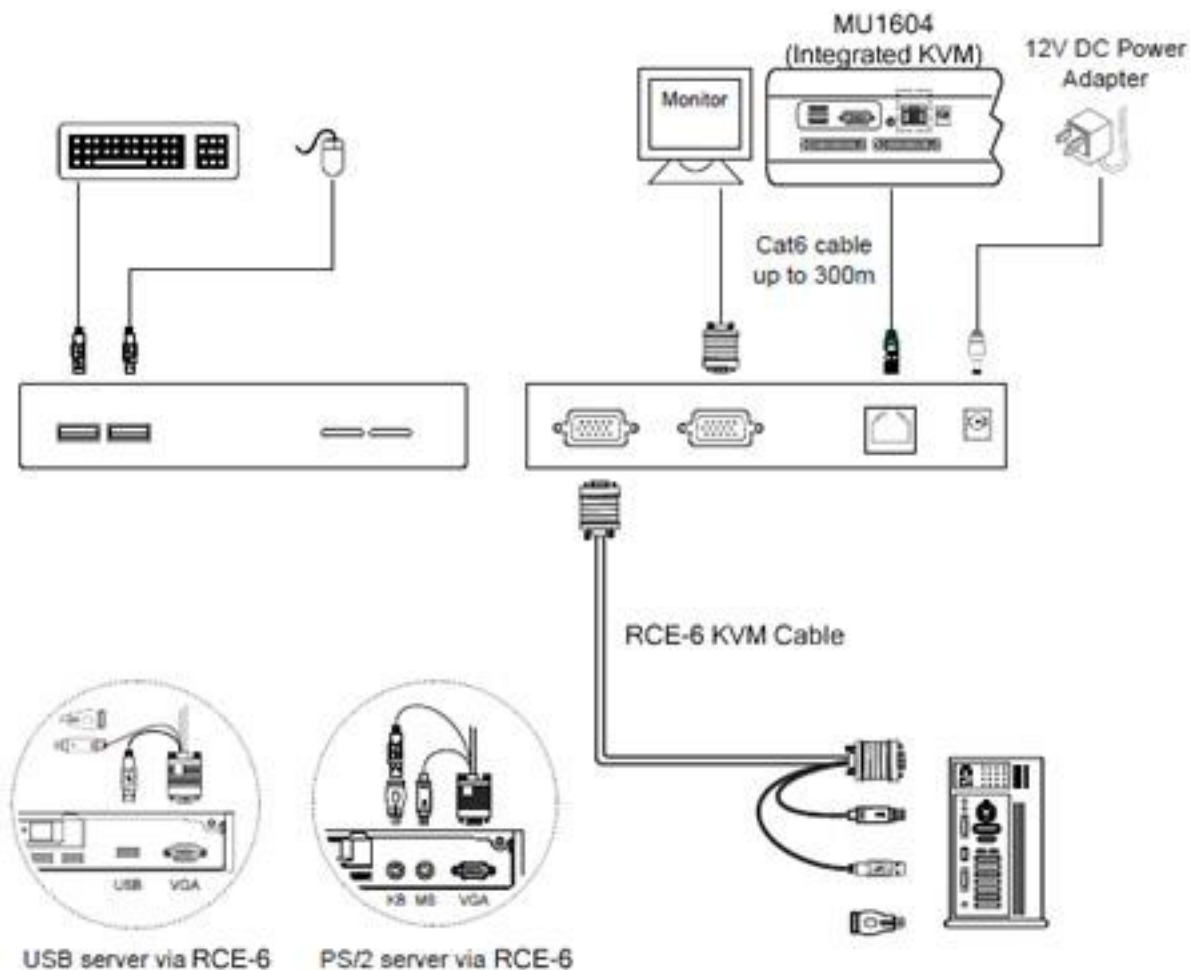


### 1.15 KVM Connection KVM Cable Connection & Receiver Diagrams (All Models)

#### Receiver



#### Receiver Connection

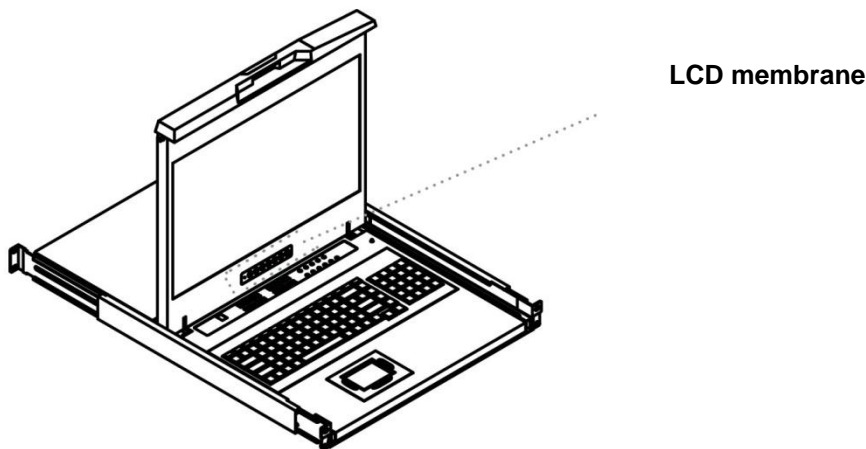




**Caution:** The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before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

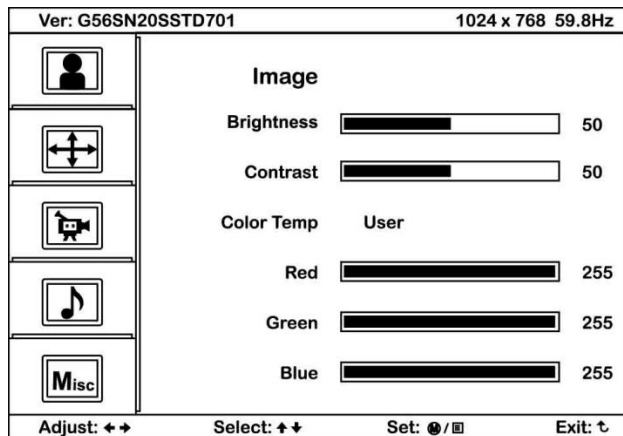
## Chapter 2 Operation

### 2.1 On-screen Display Operation



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

## 2.2 On-screen Menu

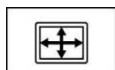


### OSD Configuration Page



**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:**

To enter into the language, OSD position, graphic mode, OSD time, ratio, reset and timer

## Chapter 3 LCD Specifications

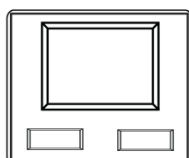
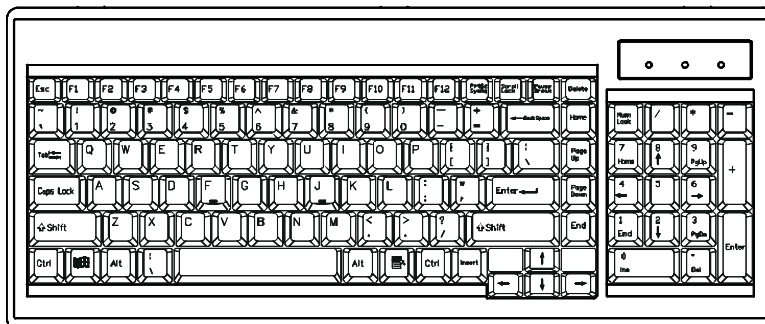
### 3.1 LCD Rackmount Widescreen Series Specifications

Item	Description	
Form Factor	1U rack mounting on slide-out rails	
LCD Manufacturer		-
Series	RW	RWS
Diagonal Size	Wide 19" TFT	Wide 19" TFT
Max. Resolution	1440 x 900	1152 x 900 (Direct)
		1440 x 900 (Native)
Brightness (cd/m <sup>2</sup> )	300	300
Color Support	16.7 M	16.7 M
Contrast Ratio (typ.)	1000:1	1000:1
Viewing Angle (H/V)	160° x 160°	160° x 160°
Display Area (mm)	408 x 255	408 x 255
Try Response Time (ms)	1.3	1.3
LCD Panel MTBF (hrs)	50,000	50,000
VGA Signal Input	Analog RGB, 0.7Vp-p	
Sync. Type	Separate H/V, Composite, SOG	
Resolution	720 x 400, 70 Hz	
	640 x 480, 60/ 70/ 72/ 75 Hz	
	800 x 600, 60/ 70/ 72/ 75 Hz	
	1024 x 768, 60/ 70/ 75 Hz	
	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 x 900, 60 Hz	
	--	1152 x 900, 66 Hz
Plug & Play DDC	EDID 1.3	
Console Port (Combo)	DB-15 connector for VGA / keyboard / mouse (Combo interface)	DB-15 connector for VGA / keyboard / mouse Support USB servers or Combo KVM switches
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz	
Power Consumption	Max. 48 Watt, Standby 5 Watt	
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs.	
Regulation Approval	FCC, CE, UL*	

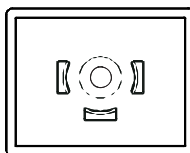
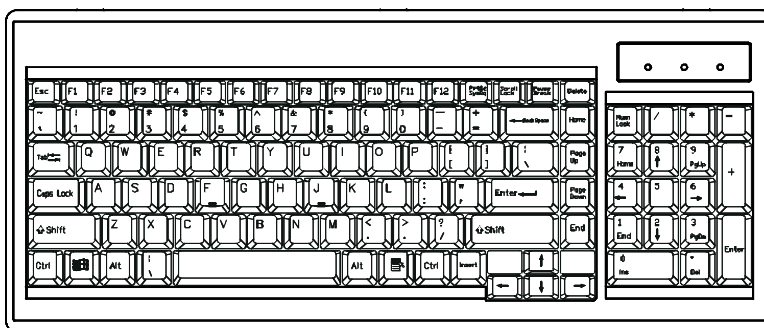
### 3.2 Keyboard & Mouse

For RW119 series

Supporting layouts



**Ne** N keyboard integrated with Touchpad

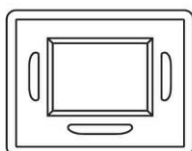
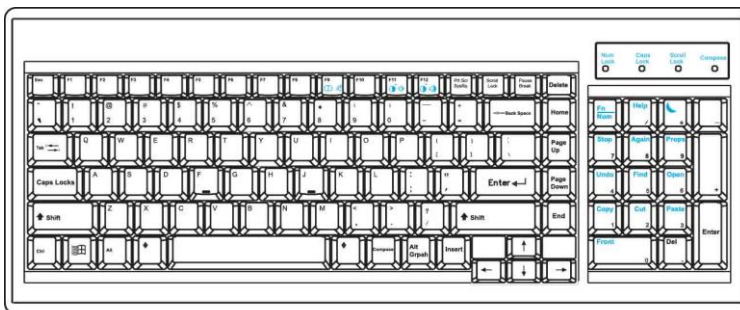


**Nb** N keyboard integrated with trackball

### 3.2 Keyboard & Mouse (Continued)

For RWS119 series

Supporting layouts

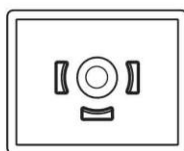
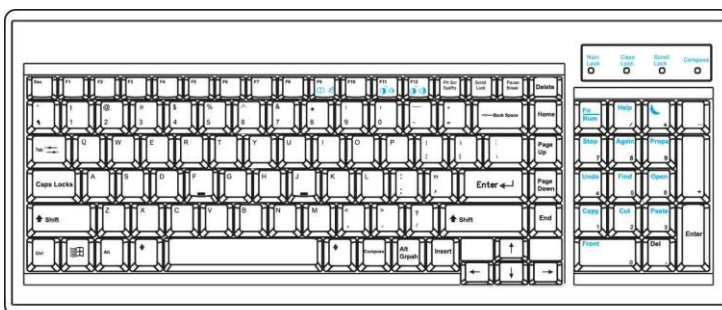


**NSe**

#### NS keyboard integrated with touchpad



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



**NSb**

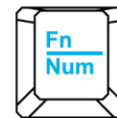
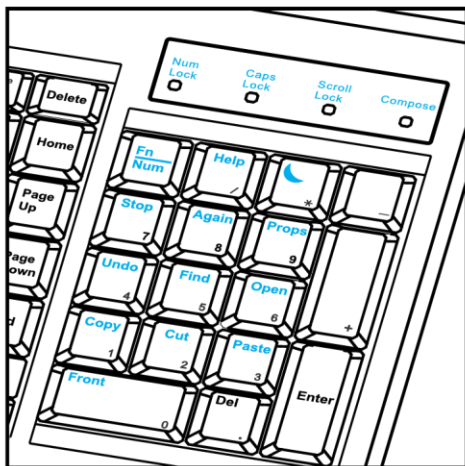
#### NS keyboard integrated with trackball



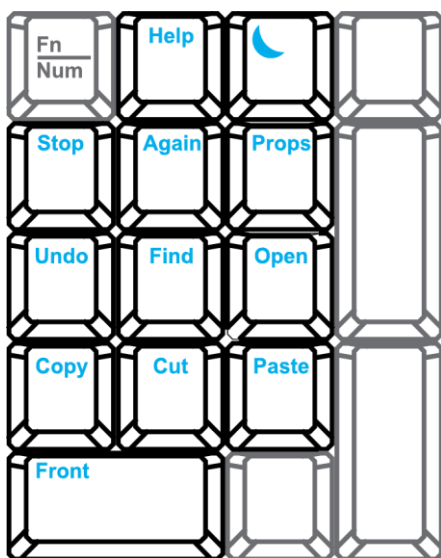
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface

### 3.3 How to use “NS” keyboard

- NS SUN-compatible keyboard incorporates SUN short-cut keys.

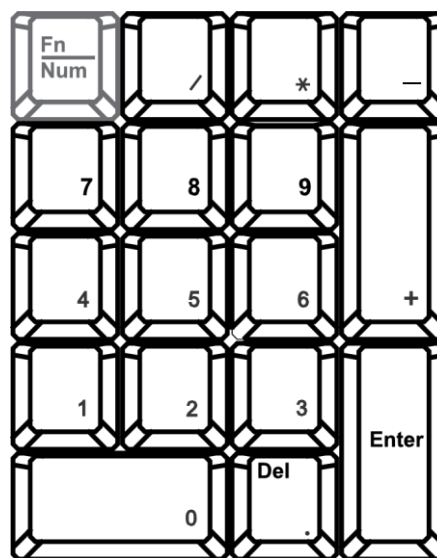


- Press the Fn/Num button to switch the color the Num LED.



#### Num LED in Off mode

Key pad acts as a SUN Solaris system administration command mode

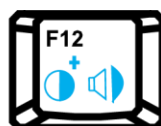
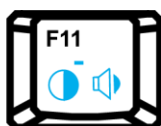
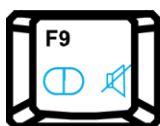


#### Num LED in Green color

Key pad acts as a normal key pad mode

Three Audio / Display keys are located in the upper-right corner of the NS keyboard:

- Audio: Mute, decrease in volume and increase in volume.
- Display: Degauss, decrease contrast and increase contrast.
- Please ask your supplier for full details



## Chapter 4 KVM Specifications

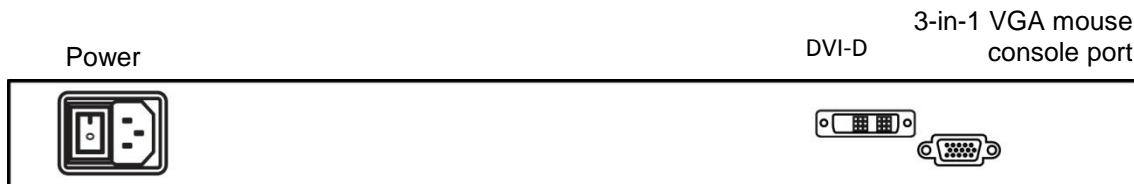
### 4.1 Matrix-Multi-User CAT5/6 KVM

	Matrix-Multi-User 16-port CAT5/6 KVM	Matrix-Multi-User 32-port CAT5/6 KVM
<b>KVM Model</b>	MU1602 / MU1603 / MU1604	MU3202 / MU 3203 / MU3204
<b>KVM Ports</b>		
Number of Ports	16	32
Connectors	RJ-45	
Connectivity	Combo 4-in-1 KVM cable, up to 6, 10, 15 ft & DVI-D / VGA connector dongle up to 40 meters (132 feet) CAT6 / CAT5 / CAT5e cable	
<b>Local Console</b>		
Graphical Connector	DB-15 VGA	
Resolution	1600 x 1200	
Input Device	2 x USB type A for keyboard & mouse	
<b>Remote Console</b>		
Graphical Connector	DB-15, VGA	
Resolution	1600 x 1200	
Input Device	2 x USB type A for keyboard & mouse	
Remote I/O	RJ45 via CAT5 / CAT5e / CAT6 cable up to 1,000 feet	
<b>Expansion</b>	Up to 128 servers by 8-level cascade	Up to 256 servers by 8-level cascade
<b>Compatibility</b>	Multi-platform: Mix various PC, SUN, MAC, IBM, HP & DELL servers. Support: Windows Vista / 2003 / XP / 2000, Linux, Netware, Unix, DOS	
<b>Power</b>		
Input	100 or 240 AC at 50 or 60 Hz via IEC type cord OR AC / DC power adapter 12V@3.3A (optional)	
Option DC	12V / 24V / 48V DC input	
Consumption	Max. 24 Watt, Standby 5 Watt	
<b>Regulatory Approval</b>	FCC, CE, UL	
<b>Environmental</b>		
Operating	32°-122°F (0° to 50°C)	
Storage	23°-140°F (-5° to 60°C)	
Relative Humidity	5~90%, non-condensing	
Shock	10G acceleration (11ms duration)	
Vibration	5~500Hz 1G RMS random vibration	

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

- USB Basic DB-15 KVM with either 8 or 16 ports 1U
- Cost efficient remote server management between user & equipment rooms within the building; access up to 300 meters
- Mix PS/2, USB & SUN with Multi-Platform switch capability

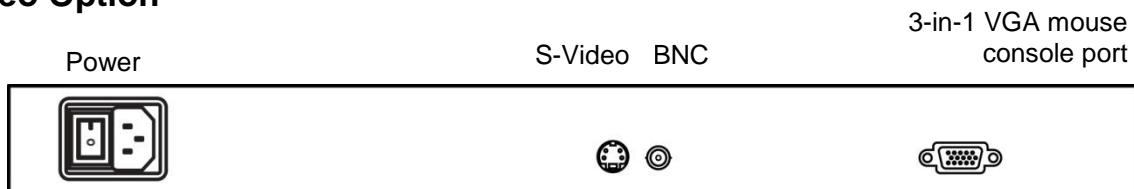
### 4.2 DVI-D Option



**Remarks:**

- Package includes 1 x 6ft DVI-D cable

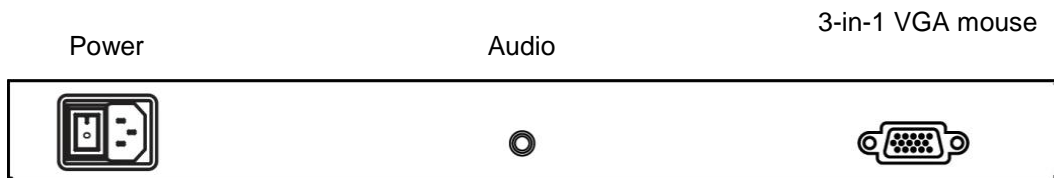
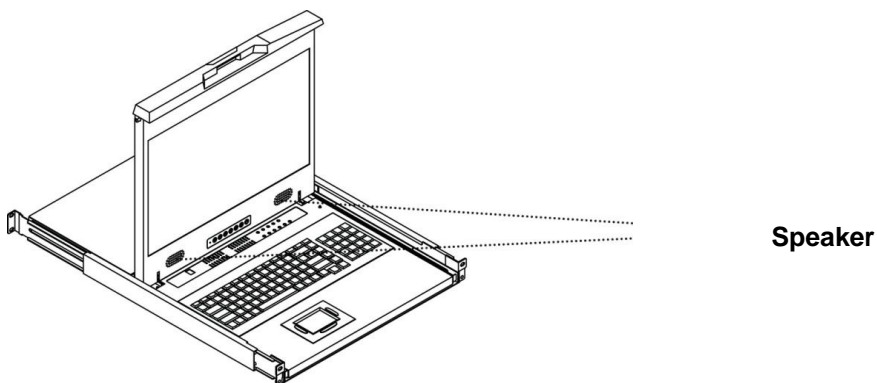
### 4.3 BNC + S-Video Option



**Remarks:**

- Package includes 1 x 6ft S-Video cable

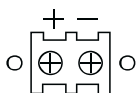
### 4.4 Audio Option



**Remarks:**

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

## 4.5 DC Power Options



Model	12V	24V	48V
<b>Input rating</b>			
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
<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%

**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  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.

## For RWS119 Series

### 1. How can I adjust the monitor resolution to 1152 x 900 for SUN Micro system?

The NS solution LCD keyboard drawer will automatically detect the 1152 x 900 resolution, so no user configuration should be necessary.

### 2. How do I adjust the resolution in MS Windows operation system?

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.

### 3. The Stop-A hot key is not work in Trusted Solaris

The keyboard combination Stop-A (L1-A) is not available in Trusted Solaris by default. The security administrator can change this.

### 4. 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

## Chapter 6 Dimensions

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
<b>RW / RWS119 – MU1613</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	24 kg 53 lb	33 kg 72 lb
<b>RW / RWS119 – MU1614</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	24 kg 53 lb	33 kg 77 lb
<b>RW / RWS119 – MU1624</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	24 kg 53 lb	33 kg 77 lb
<b>RW / RWS119 – MU3213</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	25 kg 53 lb	33 kg 77 lb
<b>RW / RWS119 – MU3214</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	25 kg 53 lb	33 kg 77 lb
<b>RW / RWS119 – MU3224</b>	442 x 600 x 44 mm 17.4 x 23.6 x 1.73"	581 x 755 x 172 mm 22.9 x 29.7 x 6.8"	24 kg 53 lb	33 kg 77 lb

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