RackView Keyboard Drawer

Sliding Keyboard/Mouse Drawer

ROSE.COM

Installation and Operation Manual

ROSE ELECTRONICS

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LIMITED WARRANTY

Rose Electronics® warrants the RackView Keyboard Drawer to be in good working order for one year from the date of purchase from Rose Electronics or an authorized dealer. Should this product fail to be in good working order at any time during this one-year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

Limited Warranty service may be obtained by delivering this unit during the one-year warranty period to Rose Electronics or an authorized repair center providing a proof of purchase date. If this Unit is delivered by mail, you agree to insure the Unit or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or its equivalent. You must call for a return authorization number first. Under no circumstances will a unit be accepted without a return authorization number. Contact an authorized repair center or Rose Electronics for further information.

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IF THIS PRODUCT IS NOT IN GOOD WORKING ORDER AS WARRANTIED ABOVE, YOUR SOLE REMEDY SHALL BE REPLACEMENT OR REPAIR AS PROVIDED ABOVE. IN NO EVENT WILL ROSE ELECTRONICS BE LIABLE TO YOU FOR ANY DAMAGES INCLUDING ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR THE INABILITY TO USE SUCH PRODUCT, EVEN IF ROSE ELECTRONICS OR AN AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

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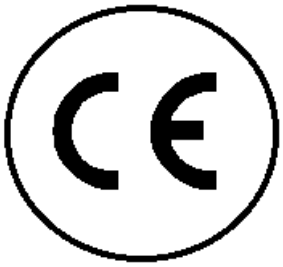
DECLARATIONS OF CONFORMITY

This is to certify that, when installed and used according to the instructions in this manual, the units listed and described here are shielded against the generation of radio interferences in accordance with the application of Council Directives 2014/30/EU and 2014/30/EU, as well as these standards:

- EN 55022: 2010/AC:2011 (Class B)
- EN 55024:2010 + A1:2015



This equipment has been found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

This equipment fully complies with the requirements of European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

These devices comply with Directive 2011/65/EU of the European Parliament and of the council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2, RoHS II). The device labels carry a respective marking.

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INTRODUCTION

Disclaimer

While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions. Neither does the manufacturer assume any liability for damages resulting from the use of the information contained herein. The manufacturer reserves the right to change the specifications, functions, circuitry of the product, and manual content at any time without notice.

The manufacturer cannot accept liability for damages due to misuse of the product or other circumstances outside the manufacturer's control. The manufacturer will not be responsible for any loss, damage, or injury arising directly or indirectly from the use of this product (See limited warranty).

System Introduction

Thank you for choosing the Rose Electronics RackView Keyboard Drawer. This product is the result of Rose Electronics' commitment to providing state-of-the-art solutions for today's demanding workplace. The RackView Keyboard Drawer is the ideal product for managing one or more PC's/Servers in a confined rack space.

The RackView Keyboard Drawer can be mounted at any height in a standard 19" rack and can be closed shut when it's not in use. Connect the Keyboard Drawer to a CPU/Server using either the PS2 or USB interface, or connect directly to the user port of a KVM Switch if you have a separate monitor already installed. The product is often paired with a RackView LCD Panel Mount display to make a complete KVM station. This gives the benefit of having the LCD display always present, and the keyboard can hide away when not needed.

The instructions in this manual assume a general knowledge of computer installation procedures, familiarity with cabling requirements, and some understanding video display device operation.

Features

- 1U - full size 104-key keyboard
- Separate numeric keypad
- Standard depth (21.7", 550mm) and short depth (15.7", 400mm) models available
- PS/2 or USB connectors
- Integrated touchpad mouse or optional trackball mouse
- Keyboard language options available
- Optional SUN/MAC keyboards available
- Rack depth extension brackets included

Package Contents

The RackView package contents consist of the following:

- 1 x RackView sliding keyboard/mouse drawer
- 1 x set of “L-Bracket” and fastener screws
- 1 x 6ft (2.0m) Keyboard/Mouse interface cable
- 1 x Manual

If the package contents are not correct, contact Rose Electronics or your reseller so the problem can be quickly resolved.

RackView Options

- Trackball mouse
- MAC or SUN keyboard layout
- 16 different keyboard language options

See Appendices for the RackView keyboard drawer options

Before Installation

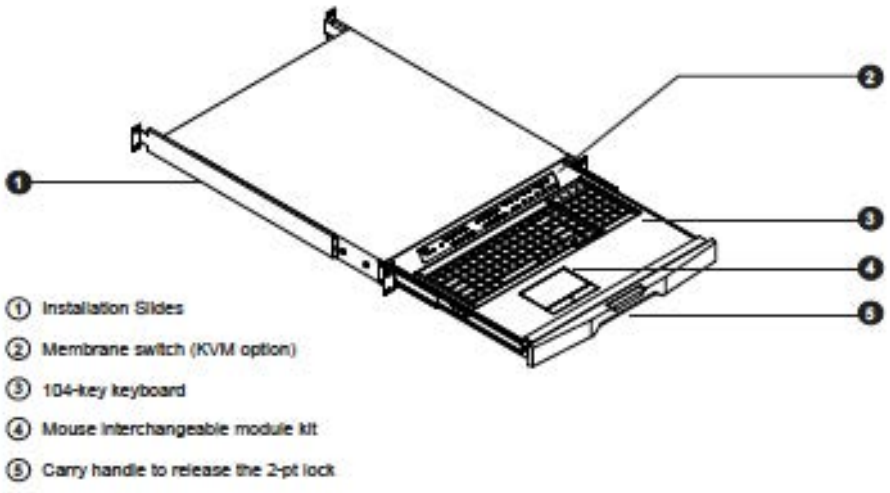
It is very important to mount the equipment in a suitable cabinet or on a stable surface.
Make sure the mounting location has good ventilation, is out of direct sunlight, and away from sources of excessive dust, dirt, heat, water, moisture, and vibration.

RackView Models

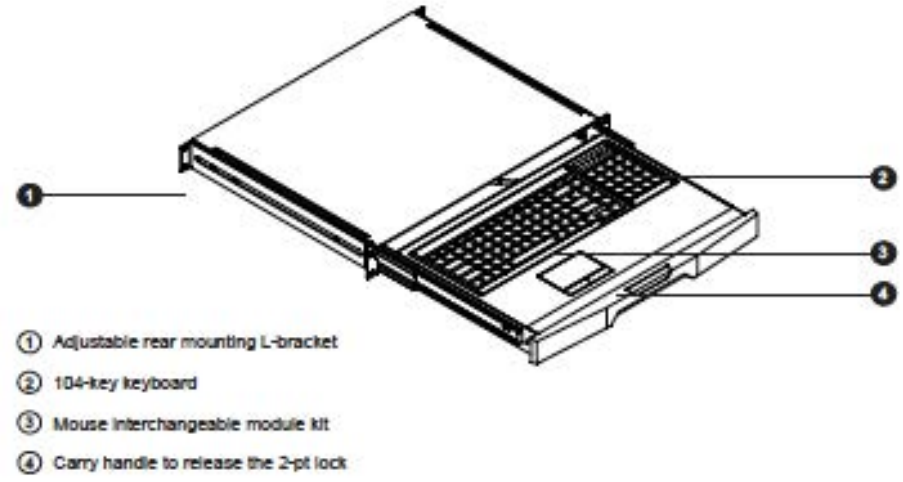
The RackView Keyboard Drawer is available as described below.

RackView Layout

RackView Keyboard Drawer



Standard Size Keyboard Drawer

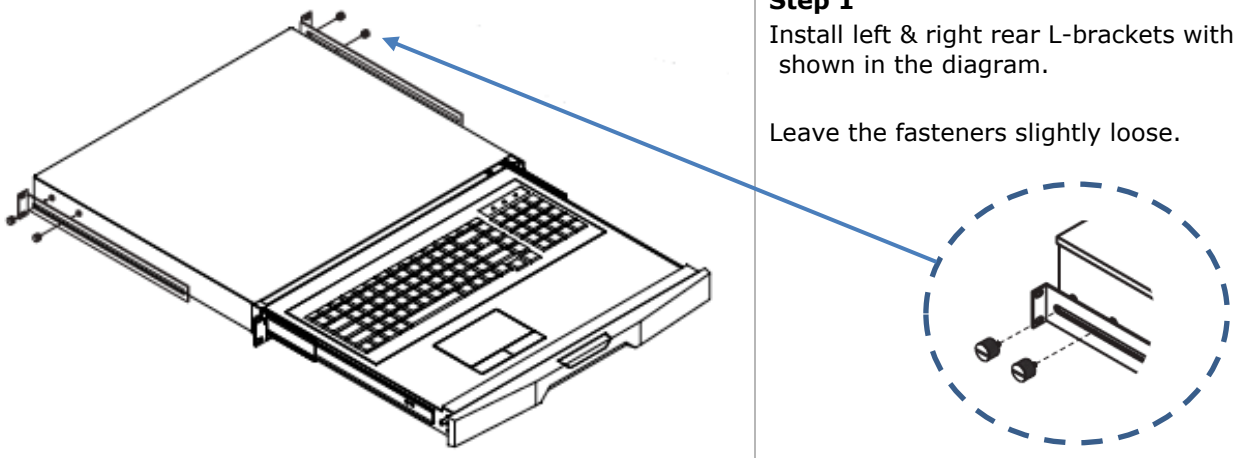


Short Size Keyboard Drawer

Figure 1. RackView product layout - key features

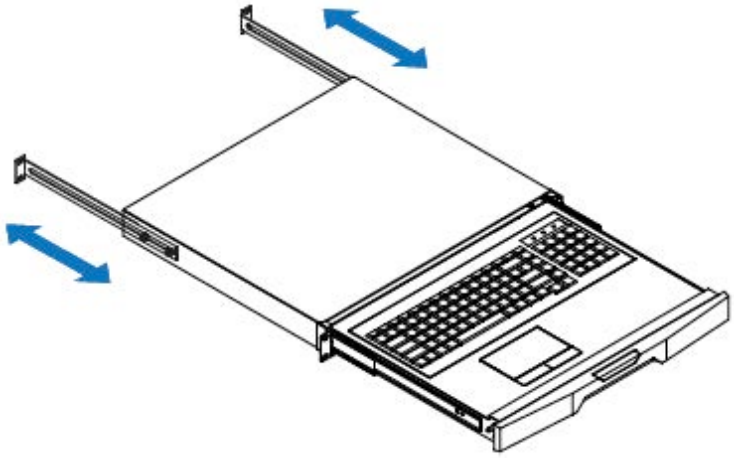
Installation Procedure

Installation of the RackView Keyboard Drawer



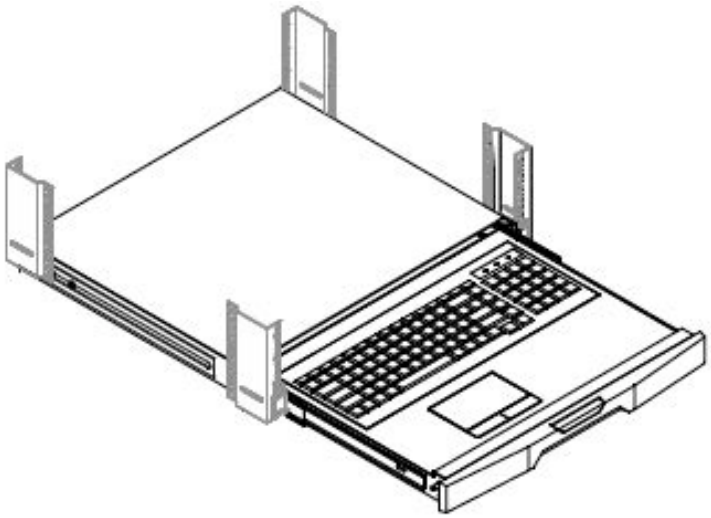
Step 1
Install left & right rear L-brackets with two fasteners shown in the diagram.

Leave the fasteners slightly loose.



Step 2
Measure the depth of the front and rear mounting rails.

Align each rear L-bracket to a suitable length and tighten the fasteners.



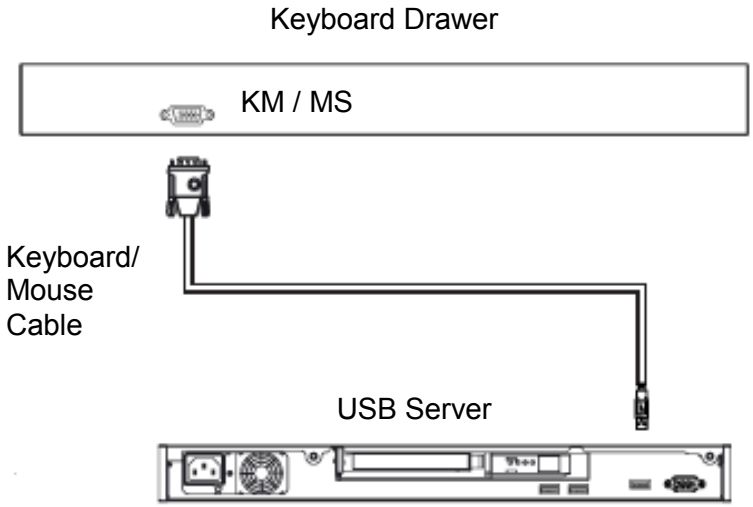
Step 3
Fix the keyboard drawer into the rack.

Note: M6 mounting screws & cage nuts are not provided.

Figure 2. RackView installation procedure

Cabling RackView to an External Device

Connection to a PC/Server



Connection to an External KVM Switch

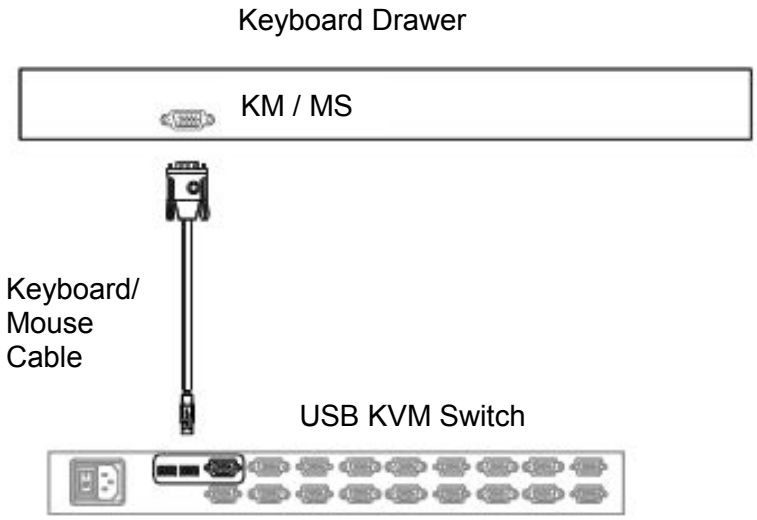


Figure 3. RackView cable connectivity

Caution: The RackView 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 switch are powered-on may cause irreversible damage to the servers and the keyboard drawer. Before attempting to connect anything to the RackView Keyboard Drawer, we suggest turning off the power to all devices. Apply power to connected devices only after the RackView has been powered-on. Rose Electronics is not responsible for any product damage or warranty claims caused in this way.

RackView Keyboard Cable

The standard RackView Keyboard cable has an HD15 connector at one end and a PS2 + USB combo connection at the other end.
The cable is 6ft (2.0m) in length. Longer cables are available on request from Rose Electronics.

Troubleshooting

If the RackView Keyboard Drawer fails to enumerate correctly with the attached product (PC, Switch, Extender) then re-connect the cable.
For PS2 devices, it is advisable to plug the PS2 connectors into the host device before powering on the device, otherwise the keyboard/mouse may not be recognized.

Safety

The RackView Keyboard Drawer, like all electronic equipment, should be used with care. To protect yourself from possible injury and to minimize the risk of damage to the Unit, read and follow these safety instructions.

- Follow all instructions and warnings marked on this Unit.
- Except where explained in this manual, do not attempt to service this Unit yourself.
- Do not use this Unit near water.
- Assure that the placement of this Unit is on a stable surface.
- Provide proper ventilation and air circulation.
- Keep connection cables clear of obstructions that might cause damage to them.
- Use only power cords, power adapter and connection cables designed for this Unit.
- Keep objects that might damage this Unit and liquids that may spill, clear from this Unit. Liquids and foreign objects might come in contact with voltage points that could create a risk of fire or electrical shock.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from the power source before cleaning.

Remove power from the unit and refer servicing to a qualified service center if any of the following conditions occur:

- The connection cables are damaged or frayed.
- The Unit has been exposed to any liquids.
- The Unit does not operate normally when all operating instructions have been followed.
- The Unit has been dropped or the case has been damaged.
- The Unit exhibits a distinct change in performance, indicating a need for service.

SERVICE AND MAINTENANCE

Maintenance and Repair

This Unit does not contain any internal user-serviceable parts. In the event a Unit needs repair or maintenance, you must first obtain a Return Authorization (RA) number from Rose Electronics or an authorized repair center. This Return Authorization number must appear on the outside of the shipping container.

See Limited Warranty for more information.

When returning a Unit, it should be double-packed in the original container or equivalent, insured and shipped to:

Rose Electronics

Attn: RA _____

10707 Stancliff Road

Houston, Texas 77099 USA

Technical Support

If you are experiencing problems, or need assistance installing your product, consult the appropriate section of this manual. If, however, you require additional information or assistance, please contact the Rose Electronics Technical Support Department at:

Phone: (281) 933-7673

E-mail: TechSupport@rose.com

Web: www.rose.com

Technical Support hours are from: 8:00 am to 6:00 pm CST (USA), Monday through Friday.

Please report any malfunctions in the operation of this Unit or any discrepancies in this manual to the Rose Electronics Technical Support Department.

APPENDICES

Appendix A — Specifications

Chassis Details	
Drawer Dimensions	Standard model: 17.4 x 21.7x 1.73 inch (441.6 x 550 x 44 mm) Short model: 17.4 x 15.7x 1.73 inch (441.6 x 400 x 44 mm)
Weight	Standard model: 22.9lb (10.4Kg) Short model: 18.9lb (8.6Kg)
Mounting Rail Distance	Standard model: 22.0 – 31.1-inch (560-790mm). (22.0 – 31.1-inch, 470-800mm, with KVM Switch) Short model: 16.1 – 25.2-inch (410-640mm) No KVM Switch
Keyboard	Full size tactile 104-Key keyboard with separate numeric keypad
Connectors and Controls	
Console Ports (standard model) (one cable included)	1 x HD15, KB/MS (for keyboard and mouse signals) Cable: HD15 male to USB type A male and PS/2 mini-din6 male PS/2 mouse adapter: USB type A female to mini-din6 male
Keyboard Details	
Keyboard	Full size tactile 104-Key keyboard with separate numeric keypad
Key force	55 ± 5g
Travelling distance	3 ± 0.3mm
Switch life	10 million life cycle time
OS support	Windows / Linux / Unix / Mac OS
Keyboard Interface Cable Length	6ft (2.0m)
Environmental, Approvals and Support	
Operating Temp	-20° to 65°C Degree
Storage Temp	-20° to 60 °C Degree
Operating Humidity	Operating: 20~90%, non-condensing
Shock	10G acceleration (11ms duration)
Vibration	10~300Hz 0.5G RMS random vibration
Regulation/Approvals	cUL, FCC, CE, RoHS2, REACH

Appendix B — Part Numbers

Part Number	Description
RackView + KVM Switch	
RV1-KT-R	RackView Keyboard w/ Touchpad, Short
RV1-KM-R	RackView Keyboard w/ Trackball, Short
RV1-KT-L	RackView Keyboard w/ Touchpad, Standard
RV1-KM-L	RackView Keyboard w/ Trackball, Standard
RackView Options	
/KM	Trackball 2-button mouse option
/nn	Keyboard Language Option: /UK, /FR, /IT, /DN, /BE, /NO, /DE, /ES, /PO, /SI, /SD, /DA, /JP, /TW. Add /nn to part

Appendix C — RackView Dimensions

RackView Dimensions: Package Size and Weight

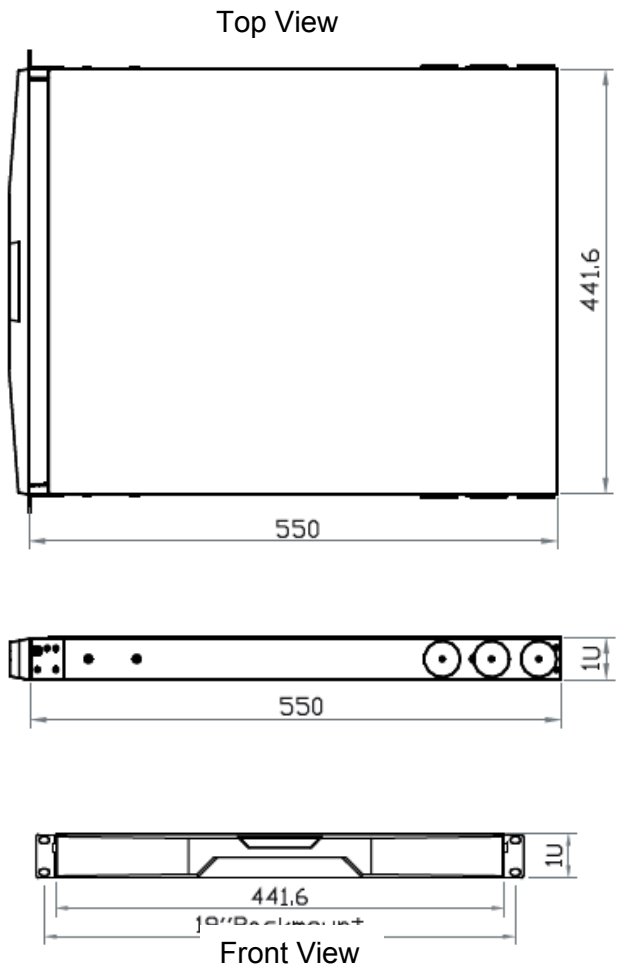
Model	Product Dimension (W × D × H) approx	Packing Dimension (W × D × H) approx	Net Weight	Gross Weight
Standard Depth	441.6 x 550 x 44 mm 17.4 x 21.7 x 1.73 inch	574 x 743 x 95 mm 22.6 x 29.3 x 3.7 inch	22.9lb 10.4Kg	28.8lb 13.1Kg
Short Depth	441.6 x 400 x 44 mm 17.4 x 15.7 x 1.73 inch	582 x 500 x 100 mm 22.9 x 19.7 x 3.9 inch	18.9lb 8.6Kg	22.2lb 10.1Kg

Table 1. RackView product and packaging dimensions

For added versatility and saving of rack space, an optional KVM switch can be mounted in the rear panel of the Standard Depth RackView Keyboard Drawer.
The KVM switch details are explained in Appendix D

RackView Chassis Dimensions

Standard Depth Chassis	Short Depth Chassis



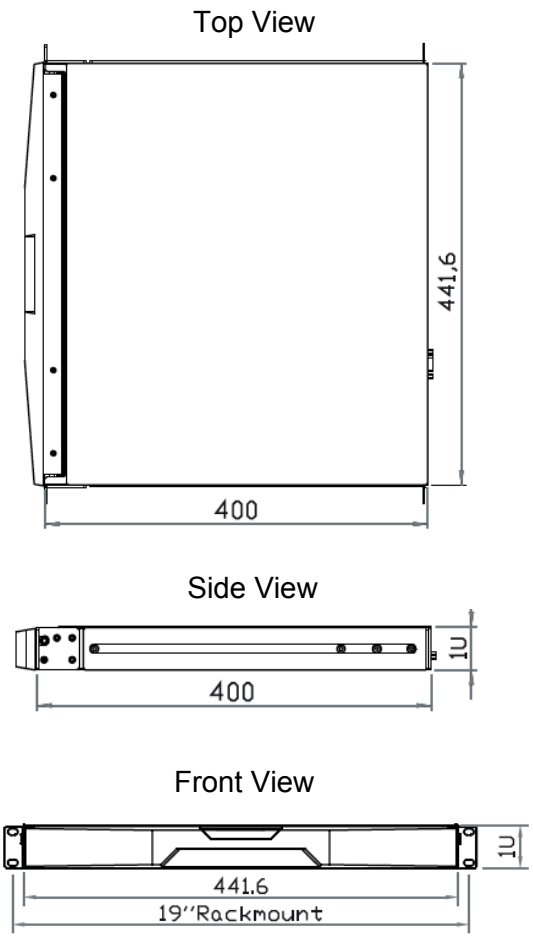


Figure 4. RackView Keyboard Drawer chassis dimensions

Side View

Appendix D — RackView with Optional Integrated KVM Switch

RackView Option with Integrated KVM Switch

The standard depth RackView Keyboard Drawer can be supplied with an integrated KVM switch mounted at the rear of the RackView unit, in a compact 1U package
The available switch options are;

- KVM-108CMB An 8-port single-user, VGA/USB switch with cascade port and CPU cables.
- KVM-116CMB A 16-port single-user, VGA/USB switch with cascade port and CPU cables
- KVM-12DVI A 12-port single-user DVI/USB switch and CPU cables
-

When ordered as a complete kit (RackView Drawer + KVM Switch), the RackView and the Switch are connected internally. All that is required is to connect the CPU combo cables (VGA/USB or DVI/USB) from the rear panel of the switch to the host PC/Servers.
The RackView can then be used to select and operate the attached PC's/Servers.

KVM Switch Models – Rear Panel View

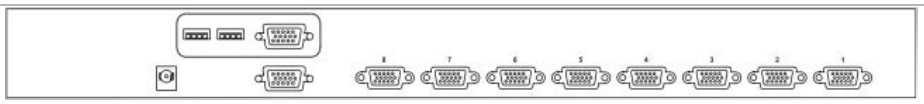
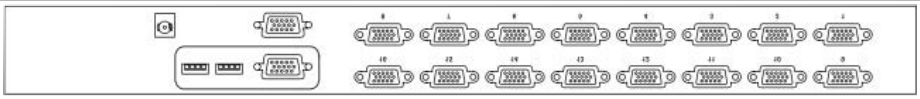
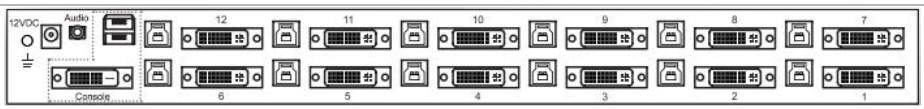
	**KVM-108CMB** 8-port KVM Switch VGA/USB + Cascade Port
	**KVM-116CMB** 16-port KVM Switch VGA/USB + Cascade Port
	**KVM-12TDVI** 12-port KVM Switch DVI/USB

Figure 5 RackView integrated KVM switch models

Appendix E — RackView Keyboard Layout

The two RackView Keyboard Drawer models, standard depth and short depth, come with slightly different keyboard and mouse layouts. Both keyboards support 104 keys and the mouse is a touchpad mouse with 2-buttons.

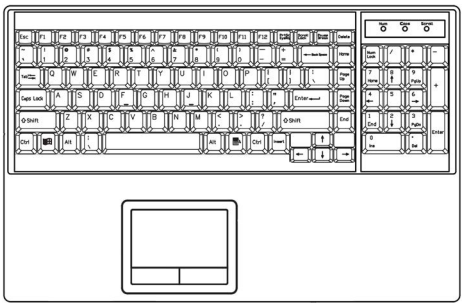
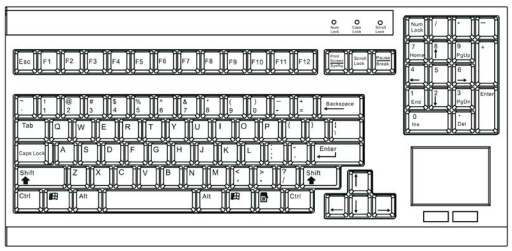
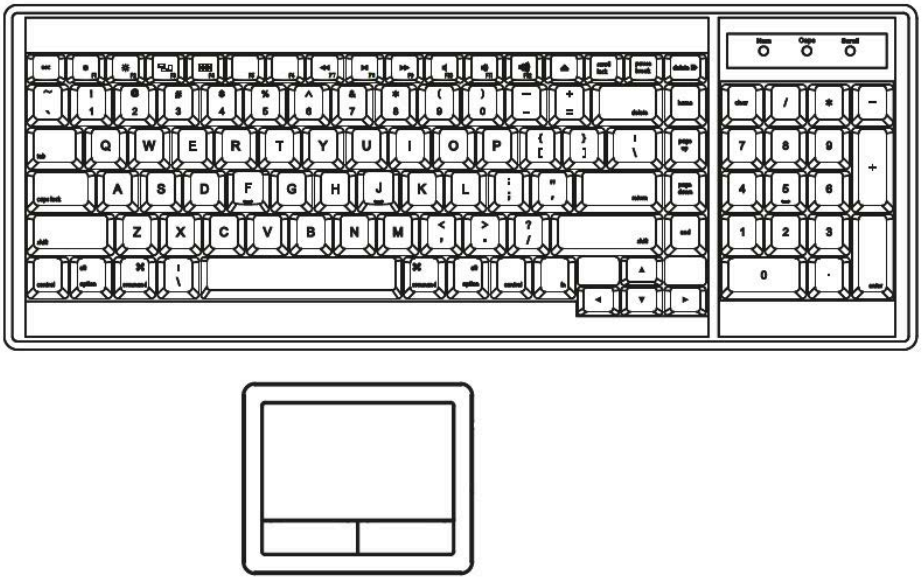
Layout view of standard depth keyboard with touchpad	Layout view of short depth keyboard with touchpad
	

Figure 6. RackView keyboard layout

Appendix F — RackView Special Keyboard Options

MAC and SUN Keyboard layouts are available in US language format only,
Please refer to the following for a description of the special function keys provided for MAC Keyboard and SUN Keyboard compatibility.

MAC Keyboard – special function keys

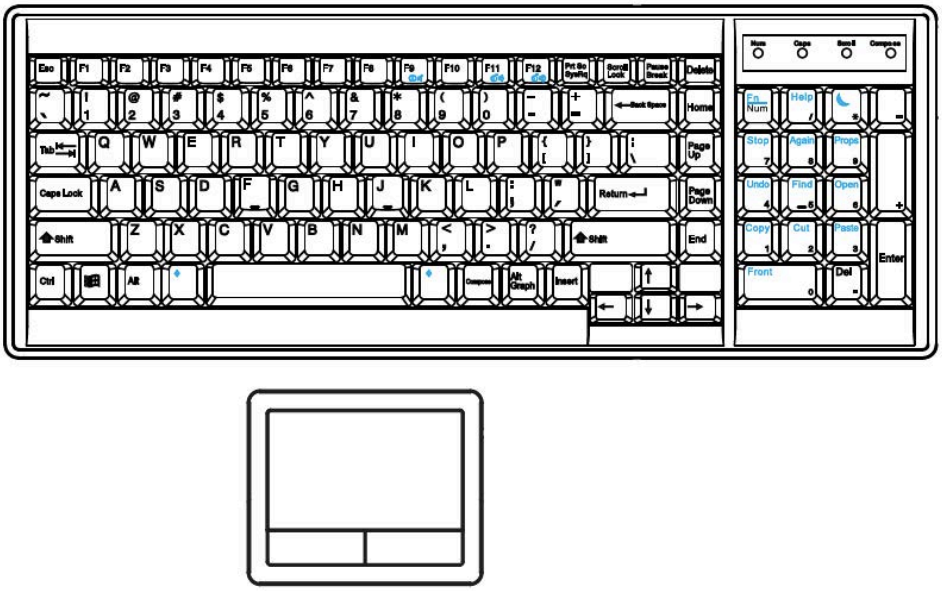


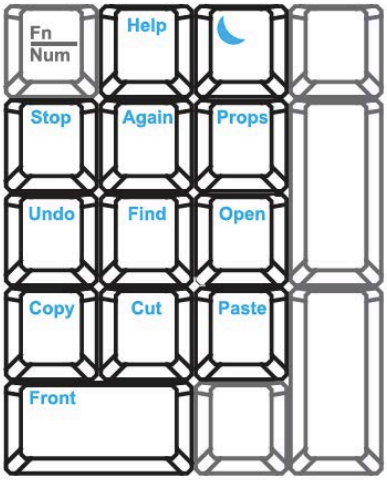
Keyboard Features

F1 Decrease display brightness	**F9** Fast-forward
F2 Increase display brightness	**F10** Mute sound
F3 Mission control * Only works with OS X Lion default Keyboard Shortcuts.	**F11** Decrease volume
F4 Dashboard	**F12** Increase volume
F7 Rewind	**Eject disc**
F8 Play / Pause	**Command**

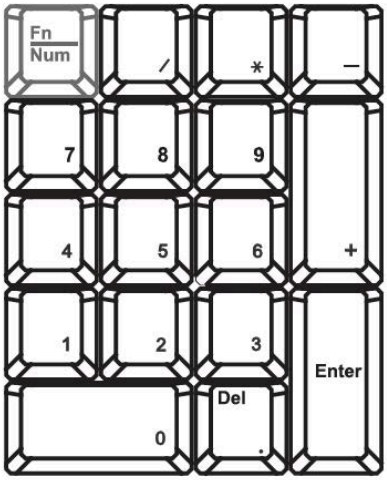
Figure 7. RackView MAC Keyboard – special function keys

SUN Keyboard – special function keys



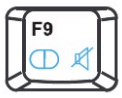


Num LED in Off mode
Key pad behaves as a SUN Solar system administration command mode

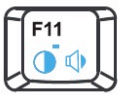


Num LED in Green mode
Key pad behaves as a normal key pad mode

Audio / Display Keys



F9
Audio : Mute
Display : Degauss



F11
Audio : Decrease volume
Display : Decrease contrast

F12
Audio : Increase volume
Display : Increase contrast

Figure 8. RackView SUN Keyboard – special function keys

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