RackView Dual-Rail

Sliding KVM Rack Drawer

ROSE.COM

Installation
and
Operation Manual

ROSE ELECTRONICS

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LIMITED WARRANTY

Rose Electronics® warrants the sliding RackView Dual Rail KVM 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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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 Dual Rail KVM Drawer, a unique 1U dual rail system for the independent operation of a keyboard, mouse and monitor.
The RackView is available in 17-inch and 19-inch display models, with video resolutions up to 1280 x 1024 (SXGA). This easy-glide KVM station contains a high-resolution TFT/LCD monitor, a tactile keyboard, and a touchpad mouse.

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 model with 17" and 19" Widescreen TFT/LCD monitor resolution up to 1280 x 1024, VGA or DVI
- Front panel controls provide access to the OSD for set-up and quick adjustments of color, brightness, contrast, position, auto-tune, and input source
- USB or PS/2 touchpad/keyboard interface
- Full size 106 key keyboard with a separate numeric keypad and a 2-button touchpad mouse
- Supports Windows, Linux, Unix, Sun, MAC OS
- Quick and easy "one-man" rack mounting installation, the RackView drawer can be mounted at any height in a standard 19" rack
- Fold and tilt the LCD Monitor for optimum viewing position
- 18 International keyboard versions available
- Mounting rails included

Package Contents

The RackView package contents consist of the following:

- 1 x RackView sliding dual rail KVM drawer
- 2 x Mounting bracket sets (sliding rails) and support brackets (2)
- 1 x Set of plates, screws, rings, and washers for assembly
- 2 x Locking keys
- 1 x Combo interface cable, 5ft (1.8m)
- 1 x DVI and 1 x USB-AN interface cable, 5ft (1.8m)
- 1 x Power supply unit
- 1 x Power cable
- 1 x Manual

The above package content is only for the single console model. The contents can vary with options such as a touchscreen, audio, and DC power.

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

RackView Options

- DVI/USB KVM Switch with 8 x CPU ports, USB2.0, 2-port hub and analog audio
- Trackball mouse
- Analog audio
- DC power, +/-12V, +/-48V

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.

MODELS

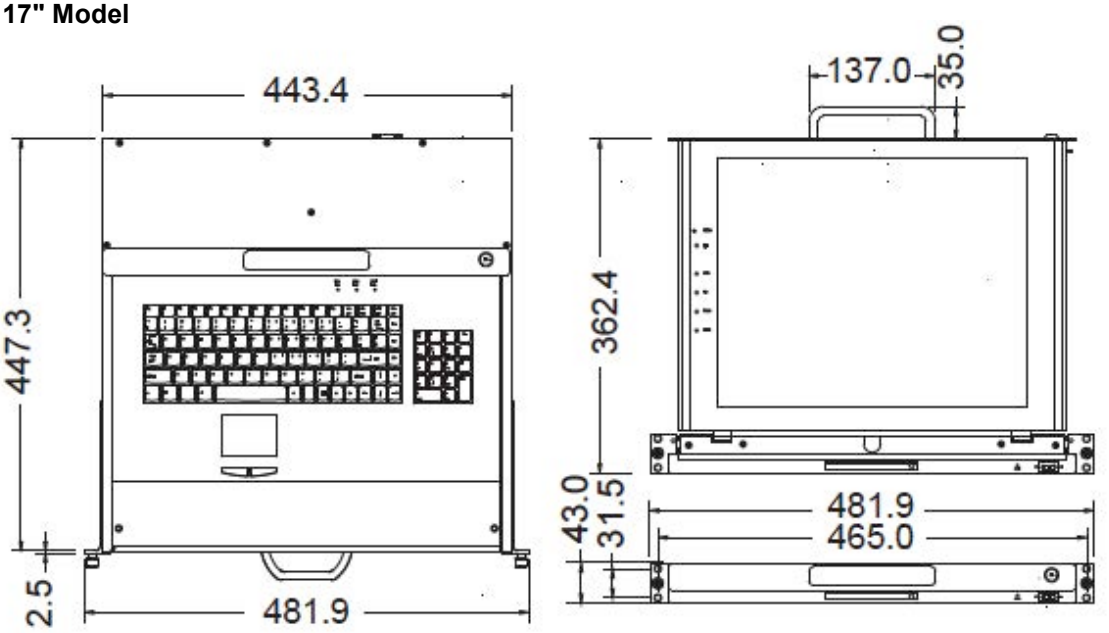
RackView Dual Rail Models

The RackView Dual Rail is available as described below.

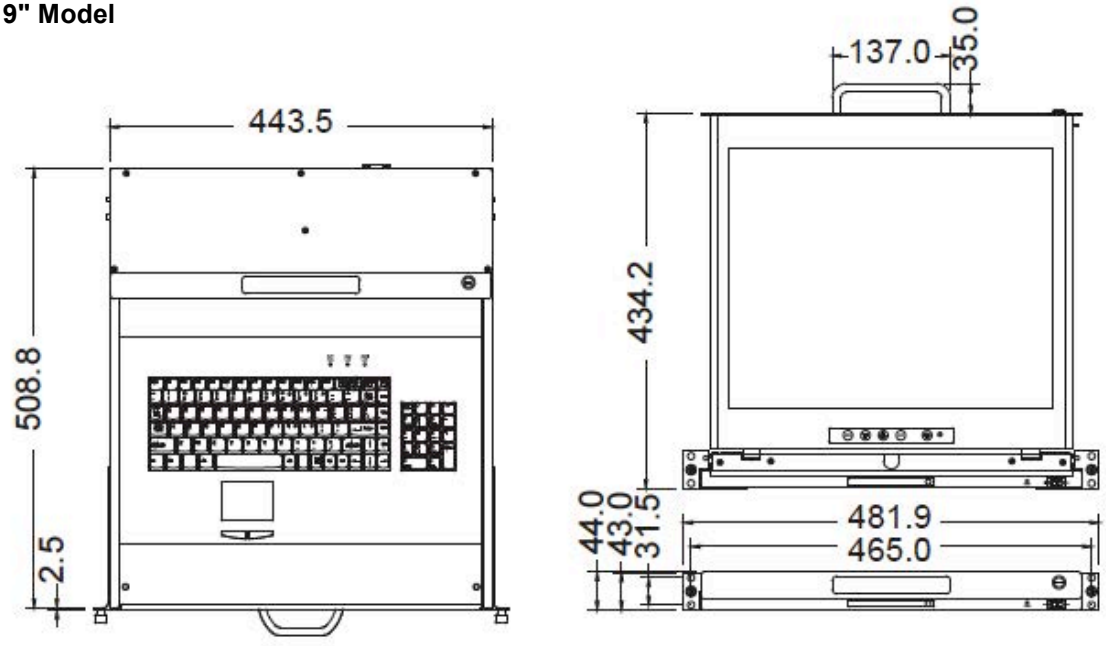
RackView Layout

RackView Layout and Dimensions

Dual Rail 17" Model



Dual Rail 19" Model



Measurements in mm

Figure 1. RackView product layout and dimensions

RackView Rear Panel Connector Layout

The RackView rear panel includes an HD15(KVM) and DVI-D connector as standard. The HD15(KVM) connector supports VGA video, and also the keyboard/mouse interface.
This diagram shows the approximate positioning of the DVI-D and KVM connectors on the rear panel.

1 2 3 4 5 6

1 = PS2 keyboard connector

2 = VGA connector

3 = PS2 mouse connector

4 = USB-HID connector

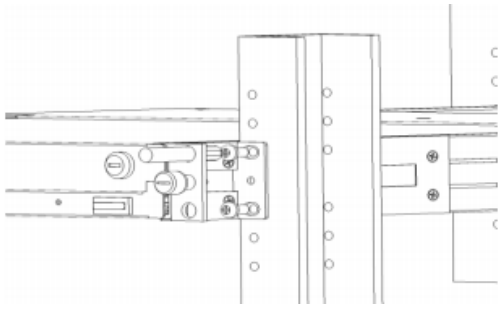
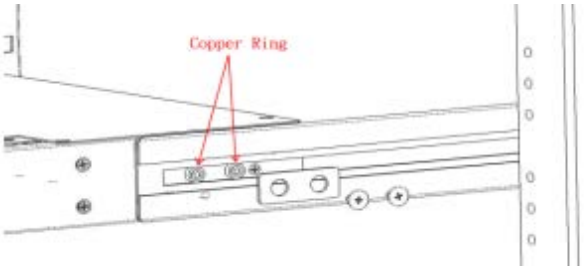
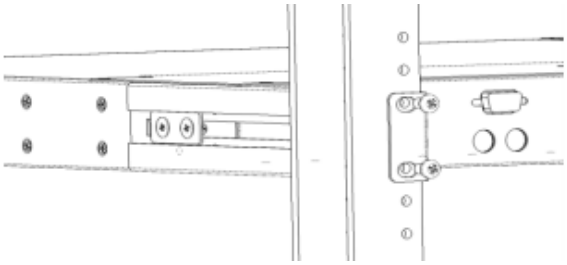
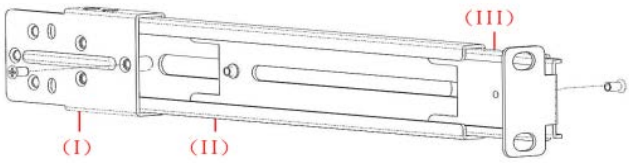
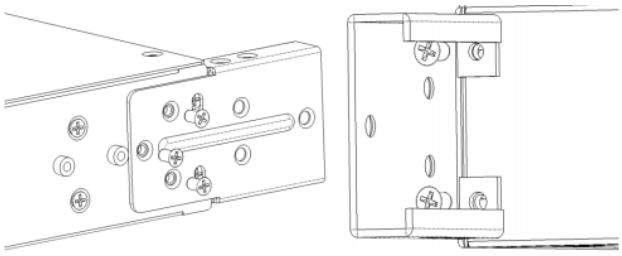
5 = DVI connector

6 = IEC power socket

Figure 2. RackView rear panel connector layout

Installation Procedure

Installation of the RackView Dual Rail

	**Step 1 (short rails)** 17" unit: For a rack depth 420 ~ 470 mm 19" unit: For a rack depth 480 ~ 530 mm Release the thumb screw on the front of the bracket (both sides) Install the front bracket from each side using cabinet screws
	**Step 2** Install the rear bracket from each side
	**Step 3** Use cabinet screws to install and fix the rear bracket
	**Step 1 (long rails)** 17" unit: For a rack depth greater than 535 mm 19" unit: For a rack depth greater than 595 mm Remove the screws of long rail bracket and safely locate these screws
	**Step 2** Combine (I) to each side of the rail using 5 cap screws

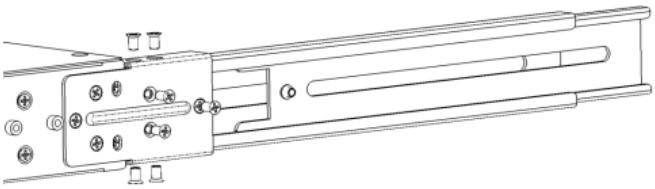
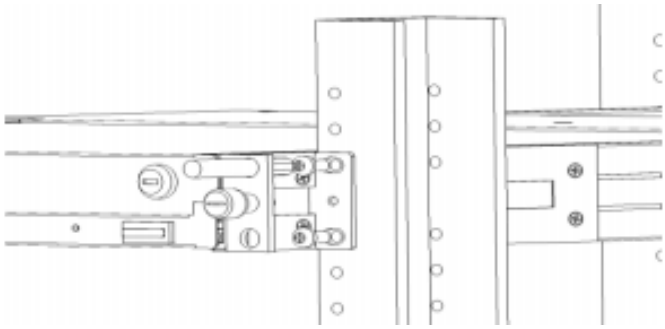
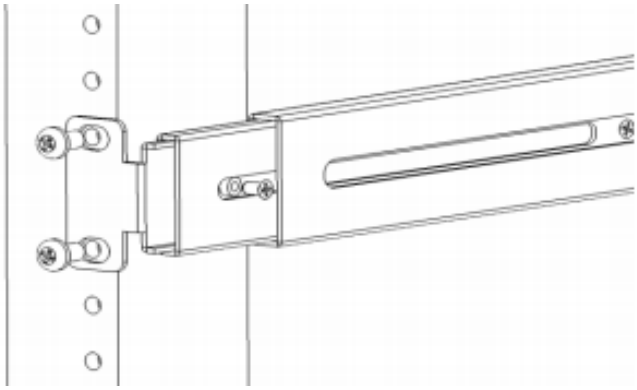
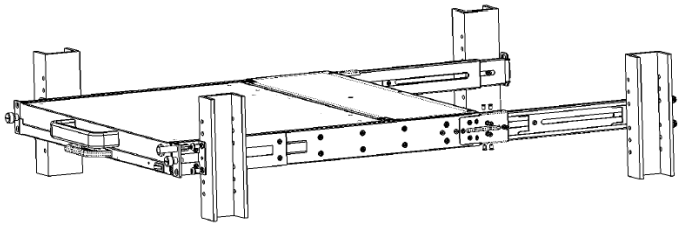
	**Step 3** Combine (I) and (II) to the RackView chassis using cap screws on each side
	**Step 4** Release the thumb screw on the front bracket and Install the front bracket from each side using cabinet screws
	**Step 5** Combine (I)+(II) and (III) using the original screws and install the rear bracket from each side using cabinet screws Use the support bracket to replace (III) when the rack depth is more than 680 mm (17" unit) or 745mm (19" unit)
	**Step 6** Finish the installation as shown below

Figure 3. RackView installation procedure

Front Panel Controls and OSD Function

The OSD control panel is mounted either horizontally or vertically, next to the LCD display.
To access the OSD, press the “Menu” button and the OSD will appear on the monitor

Controls	Description
⏻	Soft power on / off button. Adjacent LED is lit when on.
Auto	Auto-synchronize and scale down display to any valid factory preset timings.
▲	Press to scroll the function you want to adjust.
▼	Press to scroll the function you want to adjust.
Menu	To access the main menu. This button also acts as the “Enter” button.

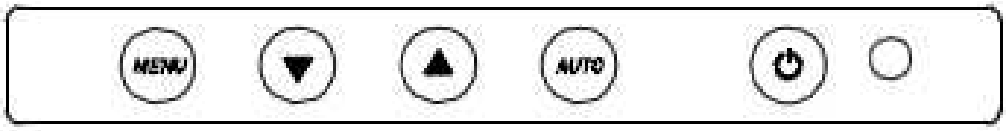


Figure 4. OSD control panel buttons and OSD display

Navigating the OSD Menu

There are eight different selectable menu items in the OSD.
To operate the OSD, press the “Menu” button
Use the “Down” and “Up” buttons to scroll through the Menu
Once the menu item has been selected, press the “Menu” button again to enter the sub-menu

- Auto tune.
- Input Source
- Brightness
- Contrast
- Color
- Position
- Language
- Recall
- Exit

Auto Tune

Press the “auto tune” button. The panel will adjust the display size automatically and also tune the panel to its optimum video resolution.

Input Source

Press the “menu” button to enter and you will see:

VGA / DVI

Use the “Down” and “Up” button to select the input source of signal.
Press the “menu” button to enter

Brightness

Press the “menu” button to enter.
Use the “Down” and “Up” button to adjust the brightness of the display.
Press the “menu” button to enter.

Contrast

Press the “menu” button to enter.
Use the “Down” and “Up” button to adjust the contrast of the display.
Press the “menu” button to enter.

Color

Press the “menu” button to enter, and you will see the image below.
Use the “Down” and “Up” button to adjust the color of the display.
Press “menu” to enter.

Icon	Description
9300°K	To set CIE coordinates at 9300°K color
7500°K	To set CIE coordinates at 7500°K color
6500°K	To set CIE coordinates at 6500°K color
User	To set user defined CIE
Auto color	To auto adjust color
Return	To exit and return to the previous page

Position

Press the “menu” button to enter and you will see the image below
Use the “Down” and “Up” button to scroll.
Press the “menu” button to enter.

Icon	Description
Image Pos	To adjust the position of the image.
OSD Pos	To adjust the position of the OSD.
Return	To exit and return to the previous page

Language

Press the “menu” button to enter and you will see:

- English
- German
- French
- Italian
- Spanish

Use the “Down” and “Up” button to scroll.
Press the “menu” button

Recall

Press the “menu” button to enter, and you will see:
Yes/ No
Select “Yes” button then ‘Menu” button to recall the factory setting.
Select “No“ button to return to the previous page.

Exit

Press the “exit” button to quit the OSD menu.
Power Indicator

GREEN	ON
RED	STANDBY
RED	SUSPEND
RED	OFF

Turning on the RackView Dual Rail

Make sure all cables and the power cord are connected properly. Be sure to tighten all connector screws. Pull the panel all the way out then lift the panel up. This will disengage the momentary on/off switch and the unit should power on. Check that the on/off switch in the front of keyboard plate is on and the green LED on the left side is on. Then pull the handle of keyboard tray to pull the keyboard all the way out.

Testing the RackView Dual Rail

To test that the RackView is working properly, perform the following steps:
1. Power up the console, and then turn on your computer.
2. Make sure the video image is centered within the screen area Use the OSD controls to adjust the image or press the Auto button on the left or underneath of the panel.

Configuring the Display Settings

After connecting the RackView Dual Rail console and turning on your computer, you may need to configure one or more of the following display settings:

- Display mode (also called desktop area or video resolution)
- Refresh rate (also called vertical scan rate or vertical sync)
- Color depth (also called color palette or number of colors)

Each video card has several controls for adjusting the display settings. However, the software and driver for each video card is unique. In most cases, you adjust these settings by using a program or utility provided by the manufacturer of the video card.
Most video cards use the Windows Display Properties control panel to configure the display. To open the Windows Display Properties, click the right mouse button in a blank area of the Windows desktop and then select Properties.
The Settings tab usually lets you change the Color Palette and the Desktop Area (x by y pixel resolution).

Some video cards integrate additional features into the Windows Display Properties control panel to give you an exceptional setup that is flexible and easy to use. For example, the control panel may include an Advanced Properties button, an Adjustment tab, or a Refresh tab for changing other settings. Other video cards have a separate utility for setting display properties.

Whenever you change the resolution, color, or refresh rate, the image size, position, or shape may change. This behaviour is normal. You can readjust the image using the panel on-screen controls.

For more information on configuring the display settings, refer to the manual that came with your video card. You can adjust the horizontal and vertical position, contrast, and brightness to better suit your video card and your personal preference.
Refer to the OSD section of this manual for more information on using the on-screen menu to adjust the video display

Before you begin, make sure that electrical power to all the devices you will be connecting up has been turned off. To prevent damage to your installation due to ground potential difference, make sure that all the devices on the installation are properly grounded. Consult your direct reseller for any technical issues if necessary

Safety

The RackView Dual Rail 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.

Appendix A — Specifications

Chassis Details	RackView 17" Model	RackView 19" Model
Display Monitor	17" active matrix TFT LCD	19" active matrix TFT LCD
Drawer Dimensions	17.6 x 19.0 x 1.7 inch 447 x 482 x 43 mm	20.0 x 19.0 x 1.7 inch 508.8 x 482 x 43 mm
Weight	26.5 lb (12.0Kg)	27.6 lb (12.5Kg)
Mounting Rail Distance	16.5 - 32.6-inch (472-830mm).	18.9 - 35.2-inch (480-895mm)
Video Specification	**RackView 17" Model**	**RackView 19" Model**
Maximum Resolution	1280 x 1024 @60Hz (SXGA)	1280 x 1024 @60Hz (SXGA)
Brightness and Backlight Type	250 cd/m², Dual lamp backlight	250 cd/m², Dual lamp backlight
Color Support	16.7 million	16.7 million
Contrast Ratio (typical.)	1000:1	1000:1
Viewing Angle (H/V)	Left/Right 170°, Up/Down 160°	Left/Right 170°, Up/Down 160°
Pixel Pitch	0.264 x 0.264mm	0.098 x 0.294mm
Response Time	Rising: 3.8ms, Decay: 1.2ms	Rising: 3.6ms, Decay: 1.4ms
Connectors and Controls		
Console Ports (standard model) (one cable included)	1 x DVI-D 1 x HD15 (VGA) 1 x USB-HID for USB keyboard and mouse 2 x PS2 for PS2 keyboard and mouse	
Power	1 x IEC power connector	
Keyboard and Mouse	106 key keyboard and 2-button touchpad mouse	
Power		
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz	
Power Consumption	17" model: 9.91W, 19" model 11.03W	
Environmental, Approvals, and Support		
Operating Temp	0° to 50°C Degree, 32° to 122°F Degree	
Storage Temp	-20° to 60 °C Degree, -4° to 140°F Degree	
Operating Humidity	Operating: 10~90%, non-condensing	
Regulation/Approvals	cUL, FCC, CE, C-Tick	
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs and DELLs. DOS, Unix, Linux, OSX, Windows	

Appendix B — Part Numbers

Part Number	Description
RV1-CDKVT17/DVI	1U, 17" RackView Dual Rail, Resolution to 1280*1024 (includes one of each, VGA/PS2, USB-AB and DVI cables (all 5ft, 1.8m)
RV1-CDKVT19/DVI	1U, 19" RackView Dual Rail, Resolution to 1280*1024 (includes one of each, VGA/PS2, USB-AB and DVI cables (all 5ft, 1.8m)
RackView Interface Cable: (optional DVI and USB interface cables)	
CAB-DVIDMM006	DVI-D extension cable, M/M, 6ft (2.0m)
CAB-DVIDMM010	DVI-D extension cable, M/M, 10ft (3.0m)
CAB-USBAB006	USB-AB extension cable, M/M, 6ft (2.0m)
CAB-USBAB010	USB-AB extension cable, M/M, 10ft (3.0m)
RackView + Integrated 8-Port DVI/USB/Audio KVM Switch	
RV1-CDKVT17/KVM-8TDVI/A1	1U, 17" RackView Dual Rail with an integrated 8-port DVI/USB/Audio KVM Switch
RV1-CDKVT17/KVM-8TDVI/A1-K6	1U, 17" RackView Dual Rail with an integrated 8-port DVI/USB/Audio KVM Switch (includes 8 x DVI and 8 x USB-AB cables (6ft, 2.0m)
RV1-CDKVT19/KVM-8TDVI/A1	1U, 19" RackView Dual Rail with an integrated 8-port DVI/USB/Audio KVM Switch
RV1-CDKVT19/KVM-8TDVI/A1-K6	1U, 19" RackView Dual Rail with an integrated 8-port DVI/USB/Audio KVM Switch (includes 8 x DVI and 8 x USB-AB cables (6ft, 2.0m)
RackView Options	
/KM	Trackball 2-button mouse option
/nnDC	12 or 48 DC power
/A1	Analog audio
/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
RackView Dual Rail 17"	17.6 x 19.0 x 1.7 inch 447 x 482 x 43 mm	23.8 x 22.0 x 8.0 inch 605 x 560 x 202 mm	26.5lbs 12.0 Kg	37.5lbs 17.0Kg
RackView Dual Rail 19"	20.0 x 19.0 x 1.7 inch 508.8 x 482 x 43 mm	26.1 x 22.2 x 7.3 inch 664 x 564 x 185 mm	27.6lbs 12.5 Kg	41.9lbs 19.0Kg

Table 1. RackView product and packaging dimensions

The above package content is only for the single RackView Dual Rail Drawer. The package size and weight varies with options such as KVM switch, and DC power, as below.

Package Size and Weight with Internal KVM Switch

Model-with KVM Switch	Product Dimension (W × D × H) approx	Packing Dimension (W × D × H) approx	Net Weight	Gross Weight
RackView Dual Rail 17"with an internal KVM Switch	22.3 x 19.0 x 1.7 inch 567.3 x 481.9 x 44.0 mm	28.7 x 21.8 x 8.1 inch 728 x 553 x 205 mm	28.7lb 13.0Kg	43.0lb 19.5Kg
RackView Dual Rail 19"with an internal KVM Switch	24.6 x 19.0 x 1.7 inch 628.8 x 481.9 x 44.0 mm	31.0 x 22.2 x 7.3 inch 788 x 564 x 185 mm	30.9lb 14.0Kg	47.4lb 21.5Kg

Table 2. RackView product and packaging dimensions (including a KVM switch)

Appendix D — RackView with Integrated KVM Switch

RackView Option with Integrated KVM Switch

The RackView Dual Rail series can be configured with an integrated 8-port DVI USB KVM switch with audio switching function. Using the KVM switch option, up to eight 8 DVI/USB-enabled multimedia computers with DVI video interfaces, USB2.0 devices and a set of speakers can be connected directly to the RackView Dual Rail drawer. With the included 2-port USB2.0 hub, you can share the data from the USB devices to all connected servers. This DVI USB KVM console supports 1280 x 1024 video resolution.

The integrated KVM switch is mounted at the rear of the RackView unit, in a compact 1U package
The available switch option is;

- KVM-8TDVI/A1 An 8-port single-user DVI/USB/Audio switch

When ordered as a complete kit (RackView + KVM Switch), the RackView and the Switch are connected internally. All that is required is to connect the CPU cables (DVI, USB, Audio) 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 Model – Rear Panel View

KVM-8TDVI/A1
8-port KVM Switch
DVI/USB/Audio

Figure 5 RackView integrated KVM switch model

8-Port KVM Switch Interface	
User Port	1 x DVI-D video interface 2 x USB-HID Type A for Keyboard and mouse 2 x USB2.0 Type A for USB2.0 device connection 2 x 3.5mm analog audio 1 x DC power jack
CPU Ports, 1-8	8 x DVI female 8 x USB type B 8 x 3.5mm analog audio

Table 3. 8-port digital KVM switch connector specification

Appendix E — RackView DC Power Options

RackView DC Power

The RackView Dual Rail Drawer can be ordered with optional DC power input for +/-12VDC and +/-48VDC. Select the DC voltage required, then add the voltage to the RackView part number as /nnDC
For example, adding 48VDC to a RackView 17" would result in RV1-CDKVT17/DVI/48DC part number.

The DC power option excludes the AC power adapter and power cord

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