CyberView™ dedicated KVM switch and rackmount screen technology

User Manual

2U Dual Slide Short Depth LCD Console Drawer

RKP2417 / RKP2419

17" / 19" 1280 x 1024 LCD

Options :

- **AV / DVI-D / HDMI**
- **SDI**
- **Touchscreen**
- **DC power**

751

Legal Information

First English printing, March 2023

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

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- 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 40º Celsius (104º 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 equipment 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.

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.

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.

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Before Installation

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

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor

Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps :

① Disconnect the power cord.

② Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps :

① Disconnect the power cord.

② Spray a small amount of non-abrasive cleanser on a microfiber cloth.

Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

③ Gently wipe the surface. Use as little pressure as possible.

④ Wait until your monitor is completely dry before plugging it in and powering it up.

Intentionally
Left
Blank

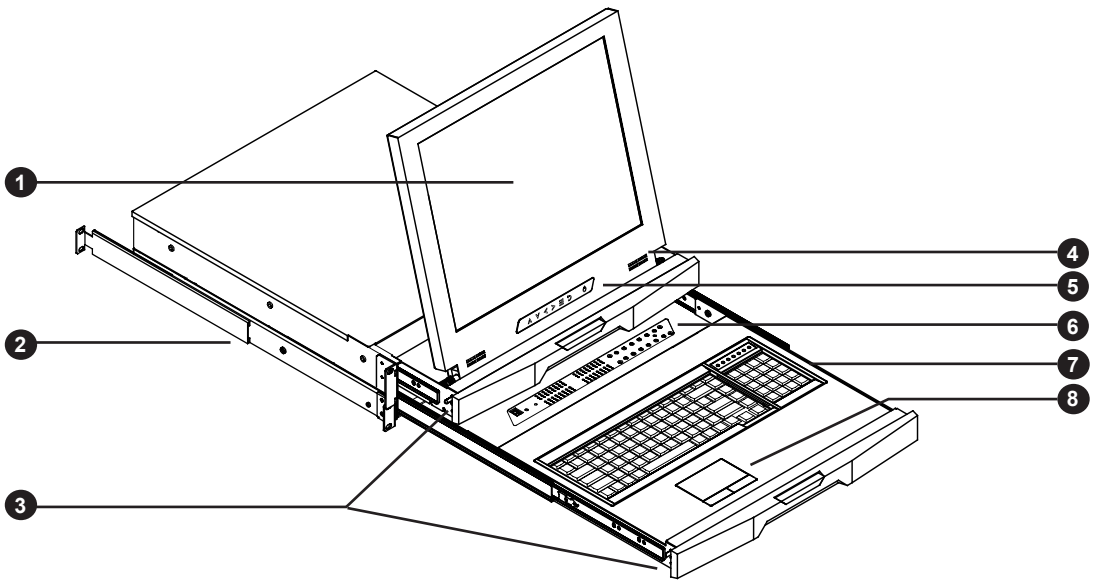
< Part 1 > RKP2417 / RKP2419 Package Content

RKP2417 or RKP2419 unit X 1

- CB-6A 6ft VGA console cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

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

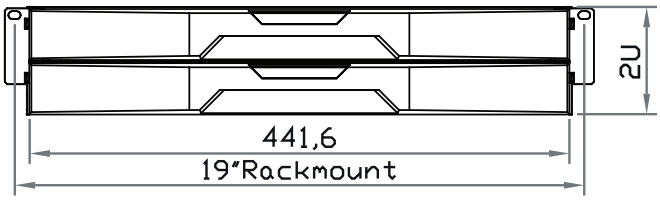
< 1.1 > Structure Diagram



① LCD interchangeable module kit
② Installation Slides
③ Carry handle to release the 2-pt lock
④ Audio speaker (for SDI or HDMI option)
⑤ LCD membrane
⑥ Membrane switch (KVM option)
⑦ Keyboard interchangeable module kit
⑧ Mouse interchangeable module kit

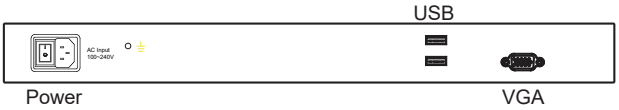
< 1.1 > Dimension

Front View

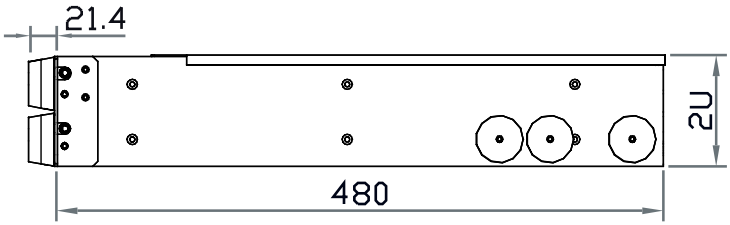


Rear View

RKP2417 / RKP2419

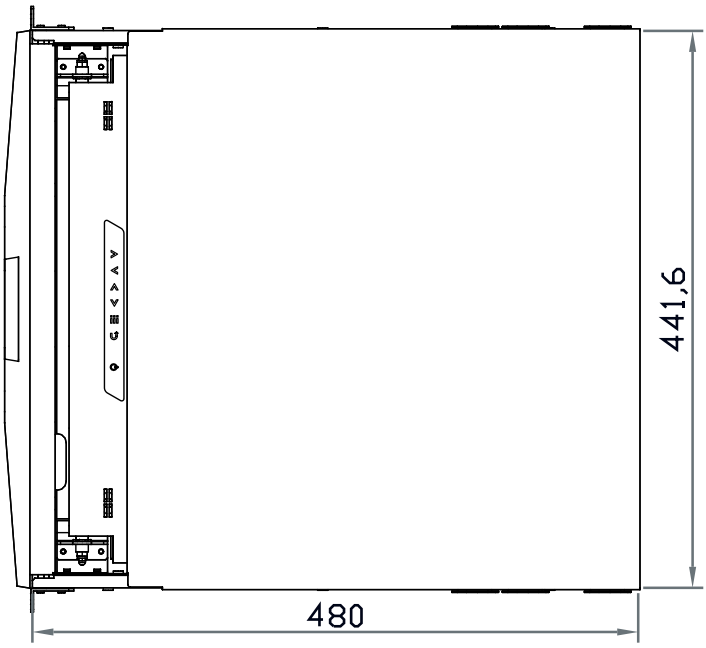


Side View



UNIT : mm
1mm = 0.03937 inch

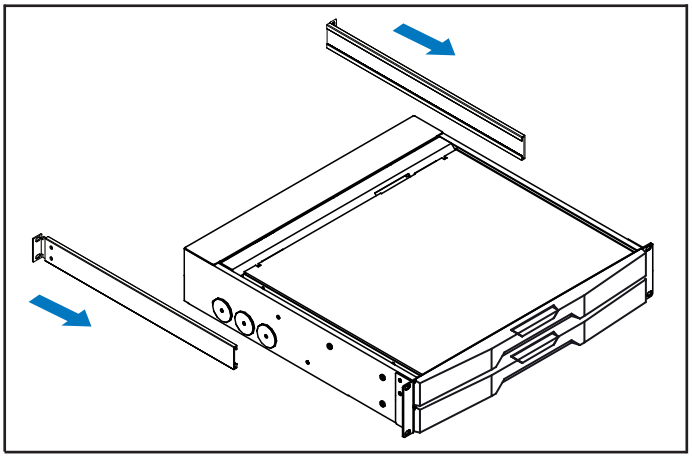
Top View



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RKP2417	441.6 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch	585 x 620 x 190 mm 23 x 24.4 x 7.5 inch	20.4 kg 44.9 lb	24.8 kg 54.6 lb
RKP2419			20.5 kg 45.1 lb	24.8 kg 54.6 lb

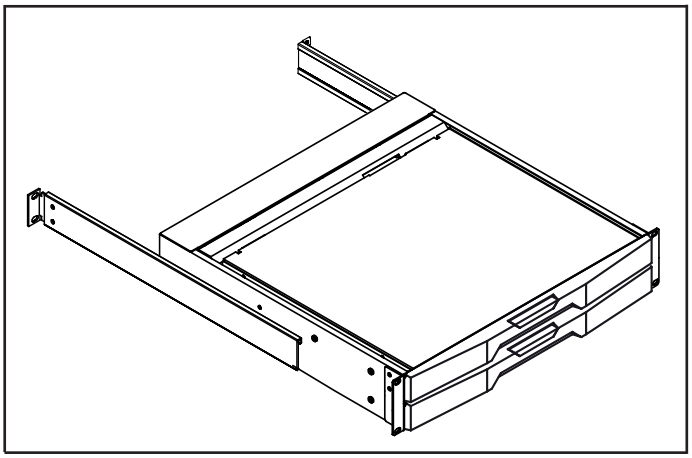
The weight is only for the single console models. It varies with accessories & options .

< 1.2 > Installation - How to install Installation Slides



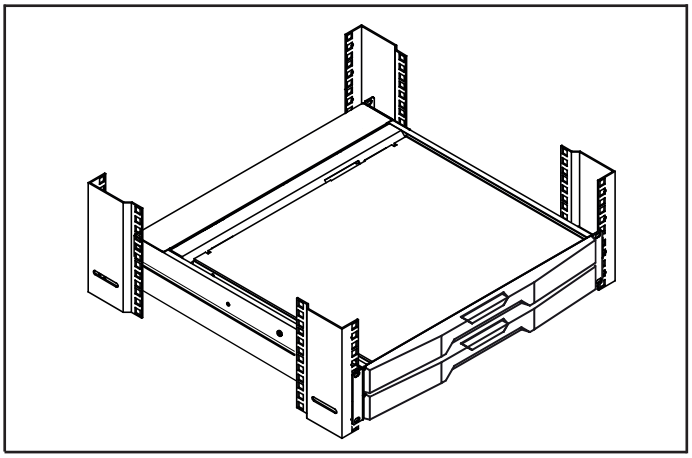
Step 1

- Insert the left and right rear mounting brackets into the LCD console drawer.



Step 2

- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.

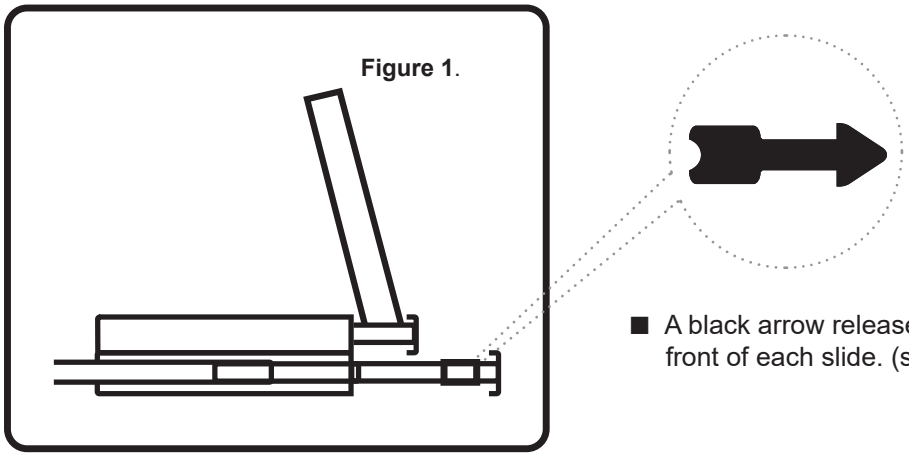


Step 3

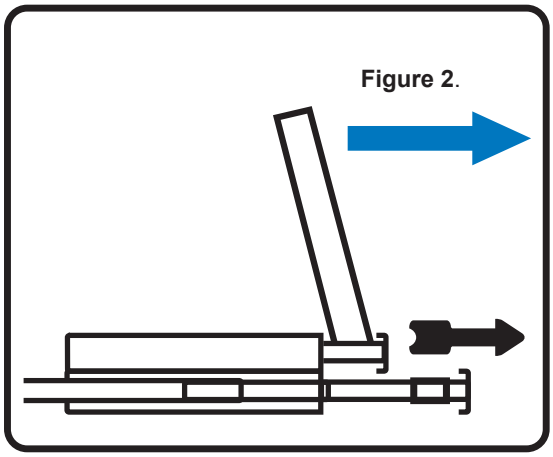
Complete the installation

- Fix the LCD console drawer into the rack.

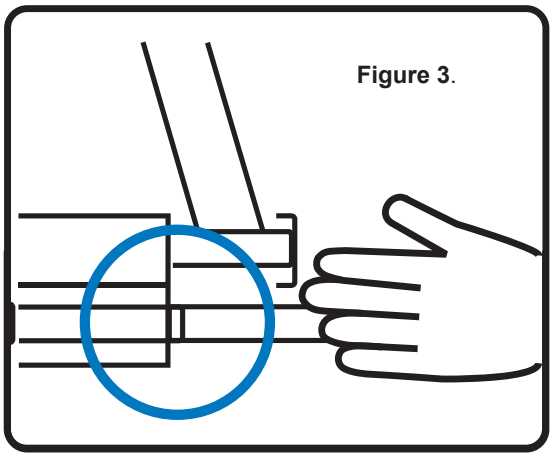
M6 screw, cage nut & cup washer x 8 are provided.



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



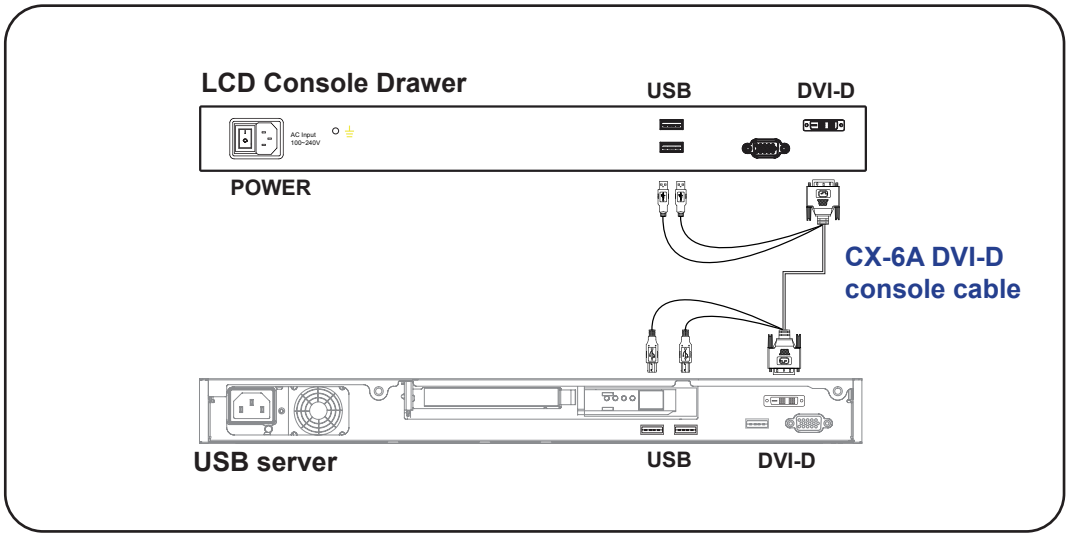
■ Pull and hold the black arrow button on either side of the LCD console drawer to unlock. (shown in **Figure 2)**.



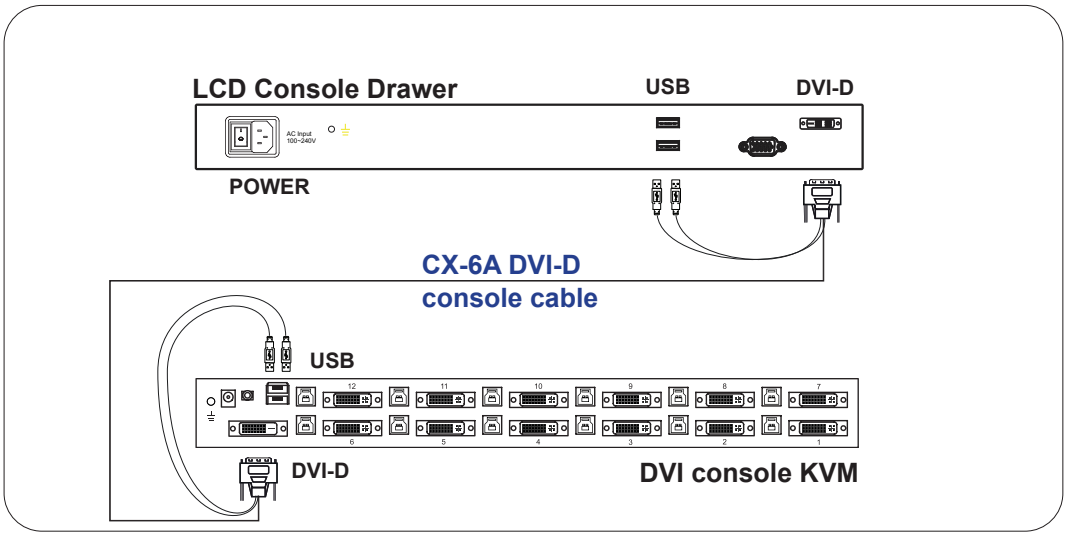
■ Push the LCD console drawer into the rack. (shown in **Figure 3)**.

Caution : Keep your fingers away from the slide stop

< 1.3 > Connection to USB Server via CX-6A cable

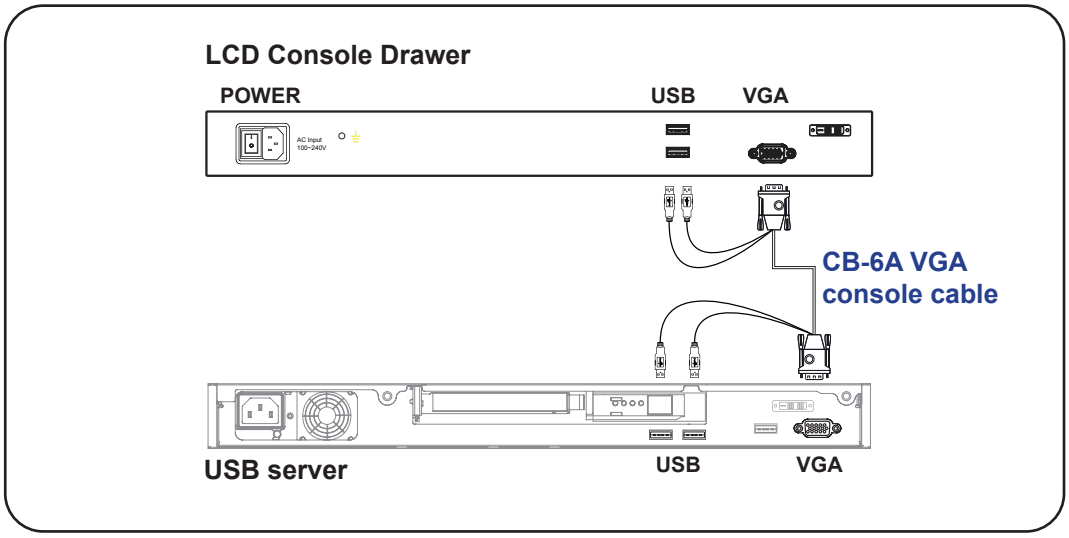


< 1.3 > Connection to external KVM via CX-6A cable

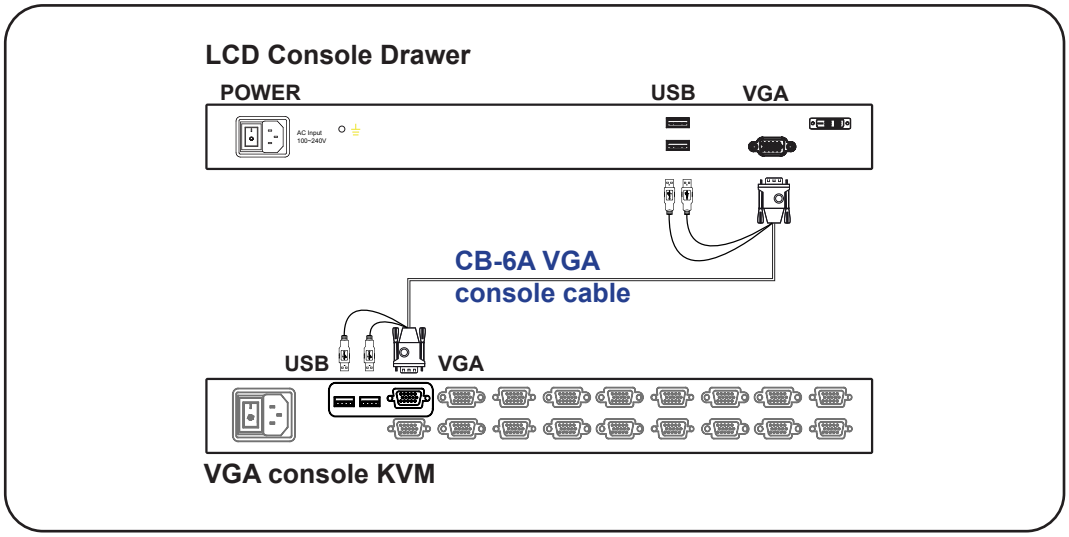


Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting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

< 1.3 > Connection to USB Server via CB-6A cable



< 1.3 > Connection to external KVM via CB-6A cable



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

< Part 2 > Specifications / OSD

< 2.1 > Product Specifications - RKP2417 / 2419

		RKP2417	RKP2419
LCD Panel	Manufacturer	AUO	AUO
	Panel Size (diagonal)	17-inch TFT color LCD	19-inch TFT color LCD
	Display pixel (dots x lines)	1280 x 1024	1280 x 1024
	Brightness (typ.)	250	250
	Contrast Ratio (typ.)	1000:1	1000:1
	Color	16.7 M	16.7 M
	Viewing Angle (L/R/U/D)	85/85/80/80	85/85/80/80
	Response Time (ms)	5	5
	Dot pitch (mm)	0.264	0.294
	Display Area (mm)	337.92H x 270.33V	376.32H x 301.06V
	Surface treatment	Haze 25%, Hard-coating	
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF (hrs)	30,000	30,000

Video Connectivity	Digital	HDMI	HDMI 1.4, HDCP 1.4
		DVI	DVI-D, TMDS single link
	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

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption for Single Console	Screen ON	Max. 22W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W
	Power Consumption with KVM integration	Screen ON	Max. 55W
		Power saving mode	Max. 34W

* For details, please refer to our KVM rear kit user manuals

Compliance	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

< 2.1 > Product Specifications - RKP2417 / 2419

Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	10~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G RMS random

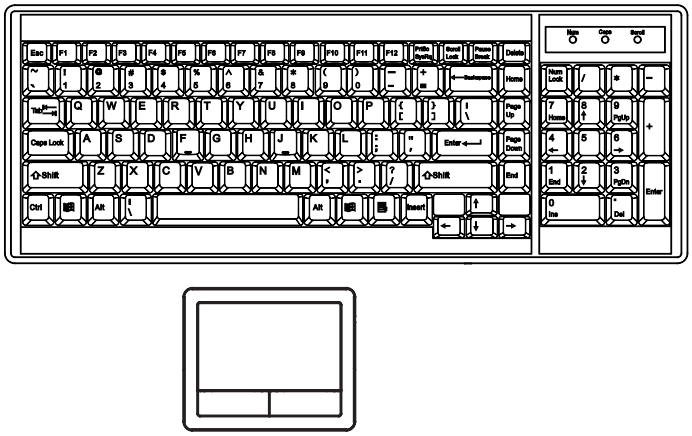
		RKP2417	RKP2419
Physical Specification	Product (W x D x H)	441.6 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch	441.6 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch
	Packing (W x D x H)	585 x 620 x 190 mm 23 x 24.4 x 7.5 inch	585 x 620 x 190 mm 23 x 24.4 x 7.5 inch
	Net Weight	20.4 kg / 44.9 lb	20.5 kg / 45.1 lb
	Gross Weight	24.8 kg / 54.6 lb	24.8 kg / 54.6 lb

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

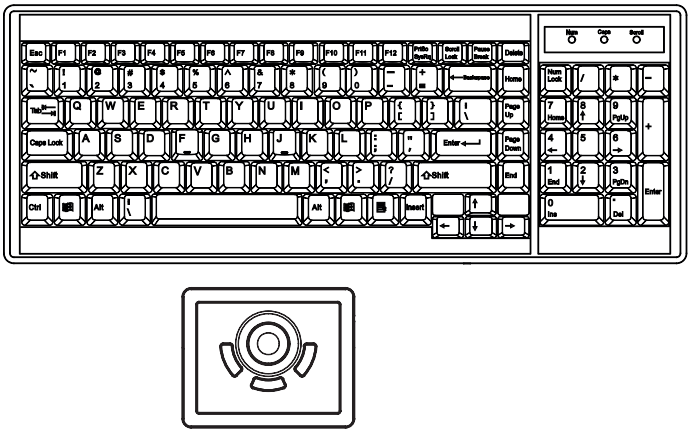
Applicable Format	DVI-D / VGA Input	PC Signal	1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz
	HDMI Input	PC Signal	Same as VGA
		Video Signal	720p : 50 / 60Hz
			480p : 60Hz
			576p : 50Hz
		Audio Signal	2ch Linear PCM (32 / 44.1 / 48 KHz)
		Speaker	Dual Stereo Speaker, 2 x 2W

< 2.2 > Standard Keyboard / Mouse Specifications

Ge G keyboard integrated with touchpad



Gb G keyboard integrated with trackball



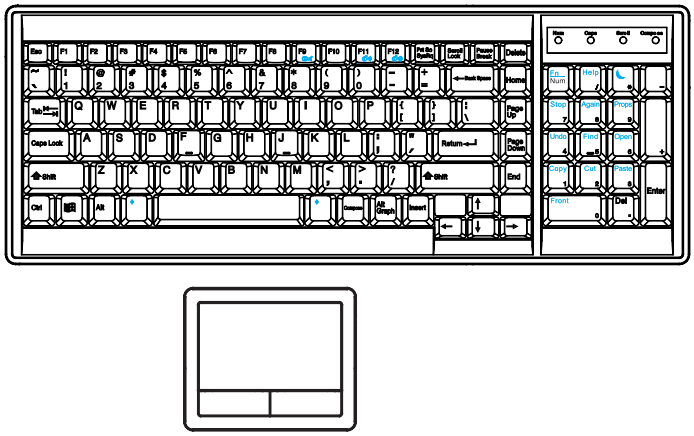
Key force	55 ± 5g
Travelling distance	3 ± 0.3mm
Switch life	> 10 million life cycle time
OS support	Windows / Linux / Unix / Mac OS

Supporting layouts

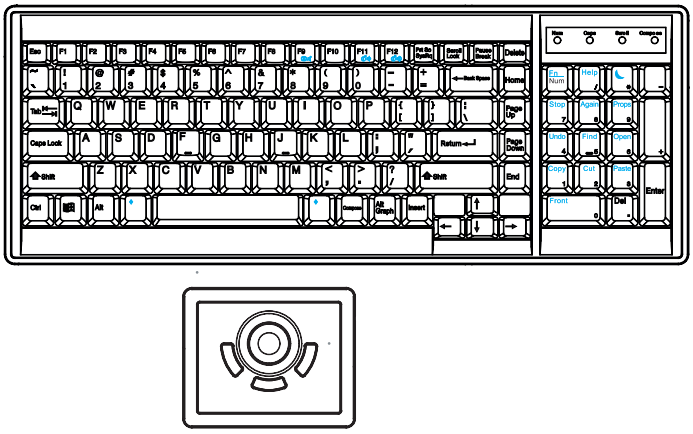
America	United States						
EMEA	United Kingdom	Germany	France	Russia	Spain	Italy	
Asia	Japan	Korea					

< 2.2 > SUN Keyboard / Mouse Options

Se S keyboard integrated with touchpad



Sb S keyboard integrated with trackball

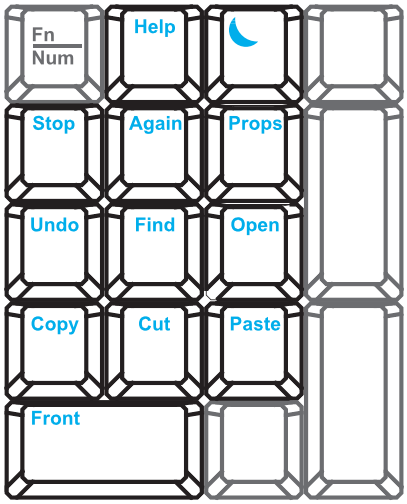


S keyboard integrated with touchpad / trackball

SOLARIS®

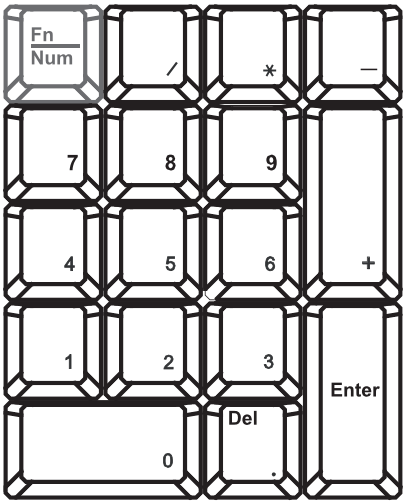
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use "S" Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

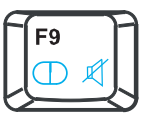


Num LED in Green mode

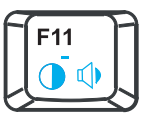
Key pad behaves as a normal key pad mode

Audio / Display Keys

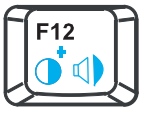
*** Please ask your supplier for full details**



F9
Audio : Mute
Display : Degauss

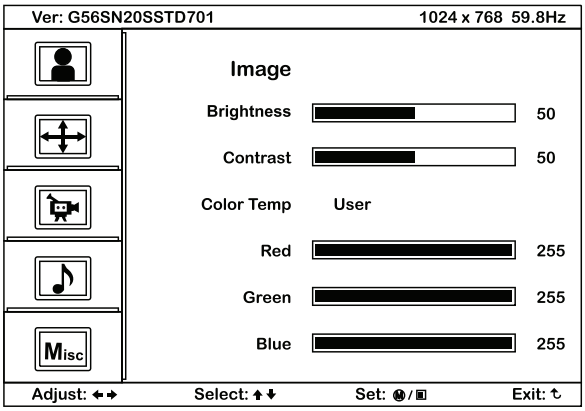


F11
Audio : Decrease volume
Display : Decrease contrast



F12
Audio : Increase volume
Display : Increase contrast

< 2.3 > On-screen Display Operation (OSD)



OSD Configuration Page

Image:
for the brightness, contrast, color temp, red, green, and blue

Geometry:
for the auto adjust, H position, V position, phase and clock

Video:
for the colour, tint, sharpness, noise reduction, DCDi and TV Setup

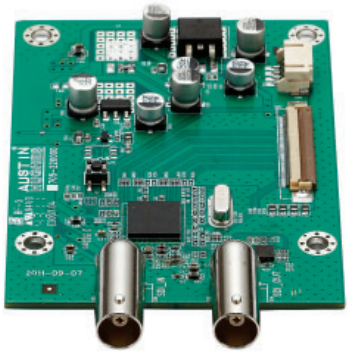
Audio:
for volume, bass, treble, balance, AVL and mute

Misc:
for the language, OSD position, graphic mode, ratio, reset and timer

Intentionally
Left
Blank

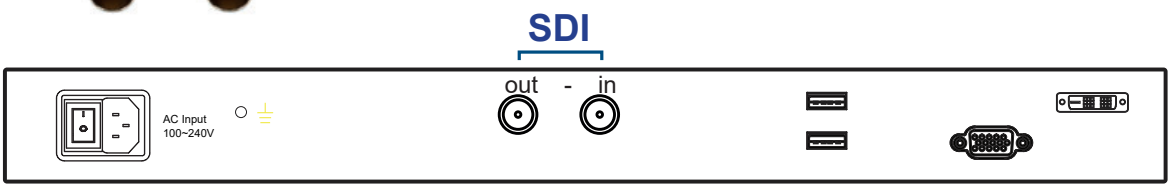
< Part 3 > Options

< 3.1 > Options : 3G / HD / SD-SDI input



Austin Hughes' SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with CyberView displays, a SDI input module can support up to 1080p @60Hz resolution without using additional space or power and it comes standard with a 2-year warranty.



INPUT	3G-SDI IN	BNC x 1 / 0.8Vp-p (75 ohm)
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked

Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

Compatible Video Format	3G-SDI	1080p 1080p 1080i 720p	@60 / 50Hz, 4:2:2 @30 / 25 / 24Hz, 4:4:4 @60 / 50Hz, 4:4:4 @60 / 50Hz, 4:4:4
	HD-SDI	1080p 1080i 720p	@30 / 25 / 24Hz, 4:2:2 @60 / 50Hz, 4:2:2 @60 / 50Hz, 4:2:2
	SD-SDI	480i	@60Hz, 4:2:2
	ITU-R BT.656	576i	@50Hz, 4:2:2

Compatible Audio Format	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video

Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options : Touchscreen & driver

Projected Capacitive 10-pt Touch screen Specification

	RKP2417
Model	**TPC-10** Multi-touch
Technology	Projected Capacitive
Touch Point	10
Input Type	Finger or Capacitive Stylus
Resolution	4096 x 4096
Touch Point Accuracy	± 2 mm
Response Speed	< 5 ms
Activation Force	< 5 g
Surface Hardness	6H
Light Transmission	> 85%
Haze	3% ↓
Durability	50 million touches
Top Layer	1.8 mm Glass
Bottom Layer	0.7 mm Sensor Glass
Thickness	2.7 ± 0.1 mm
Connector	USB
Compatibility	Linux / Android / Windows / Mac

Resistive 1-pt / Capacitive 1-pt Touch screen Specification

Model	**RKP2417**	**RKP2419**	**RKP2417**
	TRB e-Resistive		**TCB** e-Capacitive
Technology	5-Wire Resistive		Capacitive
Touch Point	Single		Single
Method	Stylus or Finger		Finger
Activation Force	≤ 50g / Stylus=R0.8		≤ 50g
Durability	35 million touches		300 million touches
Response Time	15 ms		20 ms
Optical Transmittance	80% ± 3%		93% ±2%
Surface Hardness	3H		9H
Haze	8% ± 3%		7%
Glass	1.4 ±0.2 mm	3.2 ±0.2 mm	2.8 mm ±10%
Connector	USB Type A		USB Type A
Compatibility	Windows 7 / XP / Vista, Linux		

- USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully

< 3.2 > Options : Touchscreen & driver

USB Touchscreen

RKP2417 / RKP2419

TPC-10 Driver

Connect the USB cable from the USB port on the LCD to a computer. The touch screen supports easy Plug-and-Play operations. There is no need to install additional drivers on the computer.

TRB & TCB Driver

Please follow the below steps to setup the touch screen:-

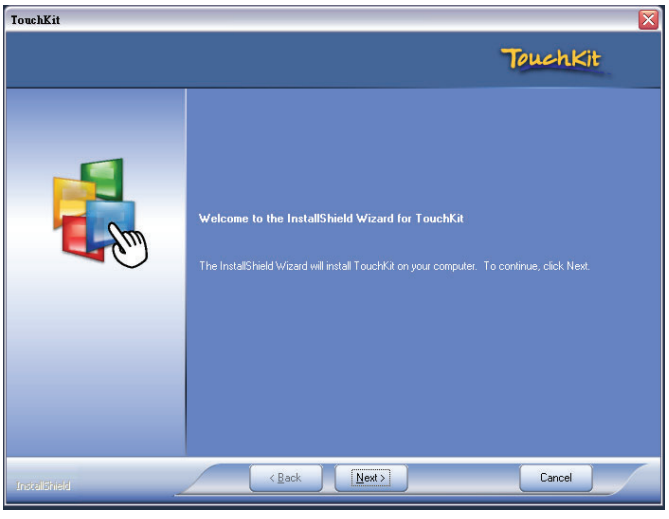
Step 1. Run the bundled CD disc or download the driver from the link below :
http://www.austin-hughes.com/resources/driver/ultraview

Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup

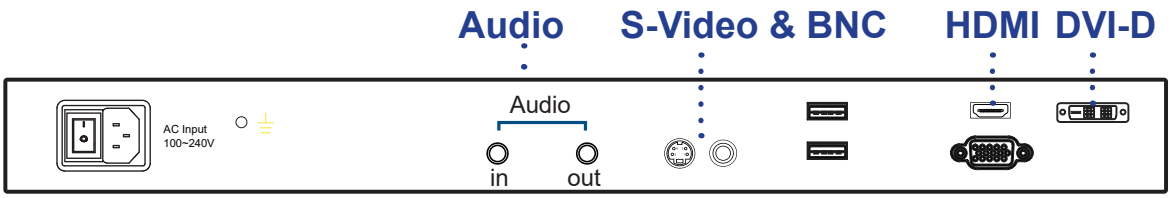
Step 4. After installation, run the TouchKit program & the “4 point calibration”

Please do the initial calibration after the first setup



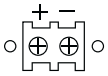
< 3.3 > Options : AV4.4 / HDMI / BNC

- **AV4.4** (HDMI 1.4, HDCP 1.4 + DVI-D)
- **HDMI** (HDMI 1.4, HDCP 1.4)
- **BNC** (S-Video + Composite)



For dual slide 1U / 2U LCD console drawer, the user can only select one of the above three options.

< 3.4 > Options : DC Power



Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
Efficiency	84%	85%	85%	91%	86%

DC power

*** **For DC power option :**

(1) If the unit with LCD, earthing may be required

(2) DC option excludes AC power adapter and power cord.

< Part 4 > KVM Integration
< 4.1 > RKP2417 / RKP2419

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-2KKVM-KIT.pdf

2K KVM	Local	Remote	IP	8-port	-	-
	0	0	0	-801D	-	-

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-DVIKVM-KIT.pdf

DVI-D KVM	Local	Remote	IP	12-port	-	-
	1	0	0	-1201D	-	-

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MUKVM-KIT.pdf

Cat6 Matrix KVM	Local	Remote	IP	8-port	16-port	32-port
	1	1	1	-	-MUIP1613	-MUIP3213
	1	1	2	-	-MUIP1624	-MUIP3224
	1	1	0	-	-MU1602	-MU3202
	1	2	0	-	-MU1603	-MU3203
	1	3	0	-	-MU1604	-MU3204

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-UKVM-KIT.pdf

Cat6 Combo KVM	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	-UIP802	-UIP1602	-UIP3202
	1	1	0	-U802	-U1602	-U3202
	1	0	0	-U801	-U1601	-U3201

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MKVM-KIT.pdf

DB-15 Matrix KVM	Local	Remote	IP	8-port	16-port	32-port
	1	1	1	-MIP813	-MIP1613	-
	1	1	2	-MIP824	-MIP1624	-
	1	1	0	-M802	-M1602	-
	1	2	0	-M803	-M1603	-
	1	3	0	-M804	-M1604	-

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-SKVM-KIT.pdf

DB-15 Combo KVM	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	-IP802	-IP1602	-
	1	1	0	-802	-1602	-
	1	0	0	-S801	-S1601	-

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RKP2417 with KVM	441.6 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch	585 x 620 x 190 mm 23 x 24.4 x 7.5 inch	21.1 kg 46.4 lb	27 kg 59.4 lb
RKP2419 with KVM	441.6 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch	585 x 620 x 190 mm 23 x 24.4 x 7.5 inch	21.5 kg 47.3 lb	27.4 kg 60.3 lb

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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