

User Manual 2U 17" 4K Dual Slide LCD Console Drawer



Designed and manufactured by Austin Hughes

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 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 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.
 - $\hfill\square$ Repair or attempted repair by anyone not authorized by us.
 - □ Any damage of the product due to shipment.
 - □ Removal or installation of the product.
 - $\hfill\square$ Causes external to the product, such as electric power fluctuation or failure.
 - $\hfill\square$ Use of supplies or parts not meeting our specifications.
 - \Box Normal wear and tear.
 - $\hfill\square$ 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.

Contents

< Part. 1 > RKP2417K

1.1	Package Content	P.1
1.2	Structure Diagram & Dimension	P.1
1.3	Installation	P.3
1.4	Connection	P.5

< Part. 2 > Specifications / OSD

2.1	Product Specifications	P.6
2.2	Keyboard / Mouse Specifications	P.8
2.3	On-screen Display Operation(OSD)	P.11

< Part. 3 > Options

3.1	3G / HD / SD-SDI Broadcast-grade input	P.14
3.2	HDMI 2.0 video input	P.15
3.3	Touchscreen : Projected Capacitive (10-point touch)	P.16
	Resistive 1-point touch	P.10
3.4	DC Power : 12V / 24V / 48V / 125V / 250V	P.18

< Part. 4 > RKP2417K

4.1	KVM Integration	P.19
-----	-----------------	------

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

A 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.

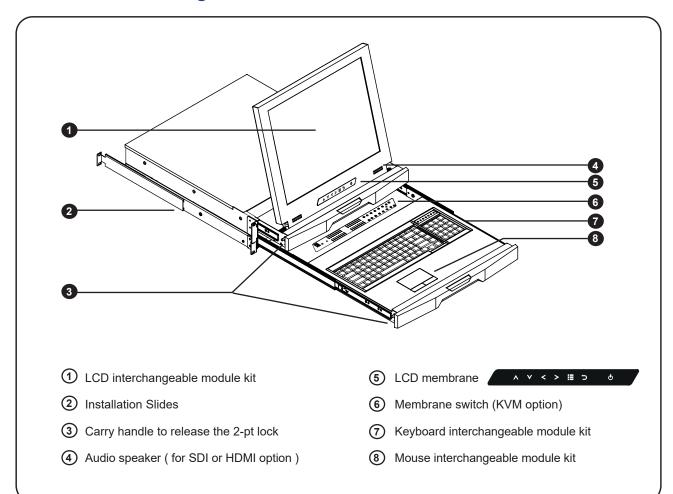
Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

- 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.

< Part 1 > RKP2417K < 1.1 > Package Content

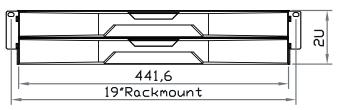


< 1.2 > Structure Diagram



< 1.2 > Dimension

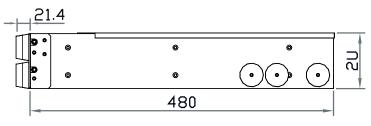
Front View



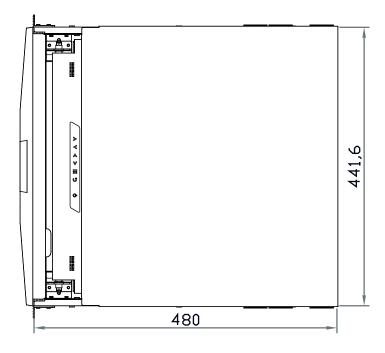
Rear View



Side View



Top View



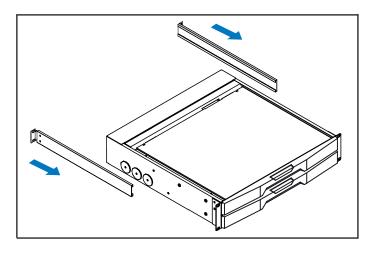
Model Product Dimension		Packing Dimension	Net Weight	Gross
(W x D x H)		(W x D x H)		Weight
RKP2417K	442 x 480 x 88 mm	442 x 480 x 88 mm	20.4 kg	24.8 kg
	17.4 x 18.9 x 3.5 inch	17.4 x 18.9 x 3.5 inch	44.9 lb	54.6 lb

The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI & DC power.

UNIT : mm 1mm = 0.03937 inch

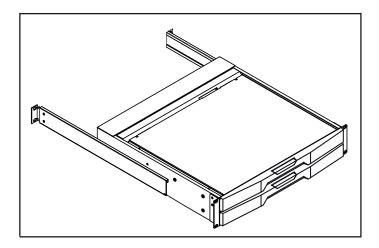
< 1.3 > Installation - How to install Installation Slides

RKP2417K



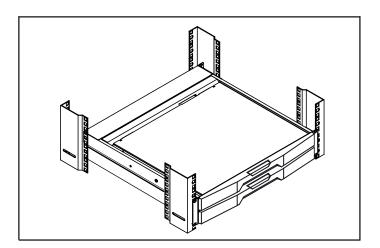


Insert the left and right rear mounting brackets into the LCD console drawer.





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

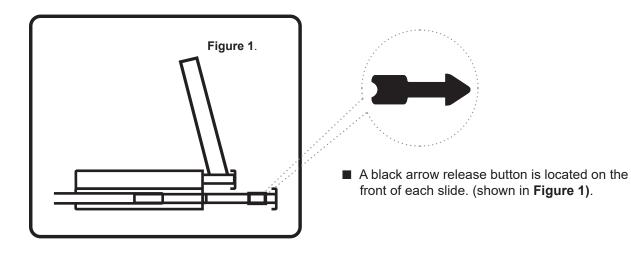


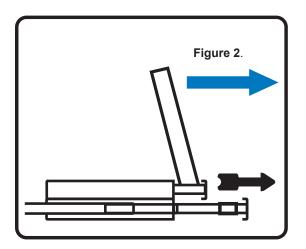
Step **3** Complete the installation

■ Fix the LCD console drawer into the rack.

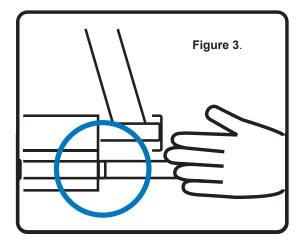


< 1.3 > Installation - How to Use the Dual Slides





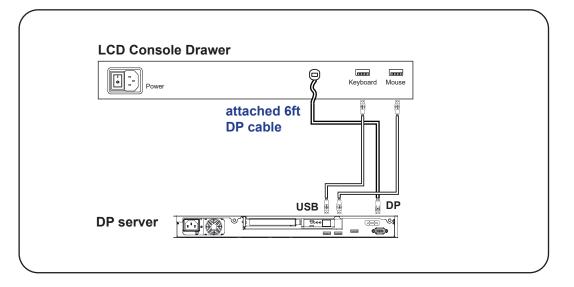
Pull and hold the black arrow button on either side of the LCD console drawer to unlock. (shown in Figure 2).



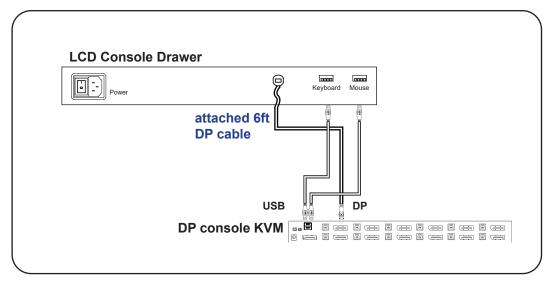
Push the LCD console drawer into the rack. (shown in Figure 3).

Caution : Keep your fingers away from the slide stop

< 1.4 > Connection to DP Server



Connection to external KVM



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

LCD	Panel Size (diagonal)	17.3-inch Widescreen TFT color LCD
Panel	Display pixel (dots x lines)	3840 x 2160@60Hz
	Brightness (typ.)	400
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	89/89/89
	Response Time (ms)	16
Dot pitch (mm)		0.0995
	Display Area (mm)	382.12H x 214.94V
	Surface treatment	Anti-glare
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	15,000

Video	Package	DP 1.2
	Option	HDMI 2.0 / HDCP 2.2

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Single Console	Screen ON	Max. 21W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W
		Screen ON	Max. 38W
		Power saving mode	Max. 18W

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

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

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		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	10~500Hz 0.5G RMS random

Physical Specification	Product(W x D x H)	442 x 480 x 88 mm 17.4 x 18.9 x 3.5 inch
	Packing(W x D x H)	442 x 480 x 88 mm
		17.4 x 18.9 x 3.5 inch
	Net Weight	20.4 kg / 44.9 lb
	Gross Weight	24.8 kg / 54.6 lb

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

Applicable	Display Port Input	PC Signal	3840 x 2160 x 60Hz
Format			2560 x 1440 x 60Hz
			1920 x 1080 x 60Hz
			1600 x 1200 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 768 x 60Hz
			1024 x 768 x 60 / 70 / 75Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
	HDMI Input		640 x 480 x 60 / 72 / 75Hz
		Audio Signal	2ch Linear PCM
		HDMI 2.0	3840 x 2160 x 60Hz
			2560 x 1440 x 60Hz
		HDMI 2.0 / 1.4	3840 x 2160 x 30Hz
			2560 x 1440 x 60Hz
			1920 x 1080 x 50 / 60Hz (1080p)
			1920 x 1080 x 25 / 30Hz (1080i)
			1280 x 720 x 50 / 60Hz (720p)
			720 x 480 x 50 / 60Hz (576p / 480p)
		Audio Signal	2ch Linear PCM

< 2.2 > Standard Keyboard / Mouse Specifications



G keyboard integrated with touchpad

<u> [[[[[[[[[[[[[[[[[[</u>

G b b c k e y b o a r d i t e g k e y b o a r d i t e g k e y b o a r d i t e g k e y b o a r d i t e g k e y b o a r d i t e g k e y b o a r d i t d s d k e y b o a r d s d k e y b o a r d s



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

RKP2417K



S keyboard integrated with touchpad

	100 000 100 00000
<u>]== []= []= []= []= []= []= []= []= []= </u>	
<u> - ₁ ₂ ₃ ₄ ₅ ҫ ァ ₅ ゅ ゅ - - - - - -</u> 	Stop Again Props
<u> ^{∞−}−4 </u>	Undo I Find Copen
^{(200 000} () [] [] [] [] [] [] [] [] [] [Copy Cut Pasie
	Front Del



	100 000 000 00000
[@##][##][##][##][##][##][##][##][##][##	
<u> - - 2 3 3 3 3 3 </u>	
1995]	
	Front TDel

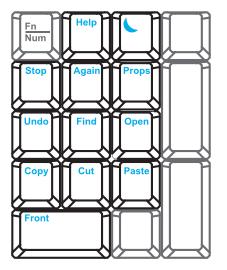


SOLARIS

S keyboard integrated with touchpad / 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
- US layout only

How to Use "S" Keyboard

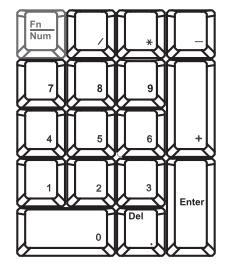


Num LED in Off mode Key pad behaves as a SUN Solar system administration command mode

Audio / Display Keys



F9 Audio : Mute **Display : Degauss**



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

* Please ask your supplier for full details



F11 Audio : Decrease volume Display : Decrease contrast



F12 Audio : Increase volume Display : Increase contrast

Intentionally Left Blank

< 2.3 > On-screen Display Operation (OSD)

~ ~ ~				
Membrane Switch	Function			
Ċ	Turn the monitor on or off			
	Display the OSD menu Act as an Enter key to select screen setting options			
$\mathbb{A} \ \mathbb{V} \ \mathbb{A} \ \mathbb{P}$	Scroll through menu options and adjust the displayed control			
Ś	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu			
Remark : All LED touch buttons in N The LED of Power (b) tou	VHITE light. uch button will flash continuously when there is no signal input.			
① All the LED touch buttons will autom	natically turn off after 10 minutes of idle status (except the Power 🖑			
② Light up all membrane buttons, please press any button for 1 - 2 seconds (except the Power 🖑).				
③ Select another video input (only available for models with multiple video input) :				
(a) Press the button $ \heartsuit $ to call up the on-screen video mode on top right corner.				
(b) Use up/down arrow $~~\bigwedge~~\bigvee~~$ to the select the video input				
(c)Press the button	n the selection			

< 2.3 > On-screen Display Operation (OSD)

1 Picture

2

Position

Picture size : Adjust the image size

DP version : Select the DP version

Brightness : Adjust the screen brightness

Contrast	: Adjust the difference between the image background
	(black level) and the foreground (white level)
Black level	: Adjust background black level of the screen

- Full Screen / 4:3 / 5:4 / Pixel to Pixel

Eco : Screen in power saving mode

PICTURE DP 3840x2160@60.0Hz PICTURE BRIGHTNESS **70** > CONTRAST 50 > BLACK LEVEL 50 <u>></u> STANDARD > COLOR ECO OSD SET RESET PIP MENU : EXIT M91KW430STD701LG -∢/▶: =/+ ▲/▼: UP/DOWN MISC

	P(OSITION	DP 3840	0x2160@60.0I	Hz
PICTURE	PICTURE SIZE		FULL	SCREEN	>
	DP VERSION			DP 1.2	>
COLOR					
OSD SET					
RESET					
PIP					
MISC	▲/▼: UP/DOWN	∢/): −/+	M91KW43	VENU:EX	LIT _G

③ Color

Color temperature	: User / Warm / Cool / 5400k mode and Red / Green / Blue color balance
Sharpness	: Adjust the image from weak to sharp
Hue	: Adjust the screen hue value
Saturation	: Adjust the saturation of the image color
Dynamic Iuminous control	: Control the dynamic brightness

COLOR DP 3840x2160@60.0Hz PICTURE COLOR TEMPERATURE USER SHARPNESS **50** > HUE **50** > **50** > SATURATION COLO DYNAMIC LUMINOUS CONTROL OFF OSD SET RESET PIP MENU: EXIT M91KW430STD701LG ▲/▼: UP/DOWN <// >: -/+ MISC

	OSD	SET	DP 3840x2160@60.0Hz
	LANGUAGE		
←	OSD H-POSITION		50 >
POSITION	OSD V-POSITION		50 >
	OSD TIME OUT		60 >
	OSD TRANSPARENCY		0 >
	OSD SIZE		NORMAL >
	OSD ROTATION		OFF >
RESET			
PIP			
MISC	▲/▼: UP/DOWN	∢/ ▶: −/+	MENU:EXIT M91KW430STD701LG

(4) OSD Set

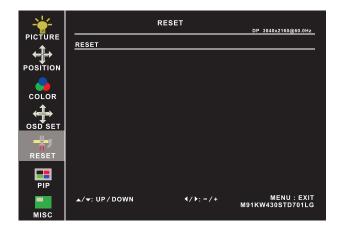
Language	: Select the language in which the OSD menu is displayed - English
OSD H-Position	: Align the screen image left or right
OSD V-Position	: Align the screen image up or down
OSD time out	: Adjust the screen timeout
OSD transparency	: Adjust the screen transparency
OSD size	: Adjust the screen size - Normal / Small
OSD rotation	: Rotate the screen - 90° / 180° / 270°

On-screen Display Operation (OSD)

RKP2417K

5 Reset

Reset : Return the adjustment back to factory setting



6 PIP

PIP mode	: Enter into PIP / PBP setting - PIP MODE / PBP 2WIN (Main screen + 1 sub screen) / PBP 3WIN (Main screen + 2 sub screen) / PBP 4WIN (Main screen + 3 sub screen) Select the signal input of each sub screen
PIP size	: Adjust the size of the Sub screen - Small / Medium / Large / Huge
PIP position	: Adjust the position of the Sub screen - Top Left / Top Right / Bottom Left / Bottom Right
Swap	: Swap the input signal of PIP / PBP sub screen

		PIP	DP 3840x2160@60.	0Hz
	PIP MODE		PIP MODE	>
← <u></u> +→	WINDOW2 INPUT		HDMI2	>
POSITION	WINDOW3 INPUT		HDMI1	>
_	WINDOW4 INPUT		DP	>
COLOR	PIP SIZE		MEDIUM	>
↔]>>	PIP POSITION		TOP LEFT	>
OSD SET	SWAP			
 ;				
RESET				
PIP				
MISC	▲/▼: UP/DOWN	4/ ▶: −/+	MENU:E M91KW430STD701	

7 MISC

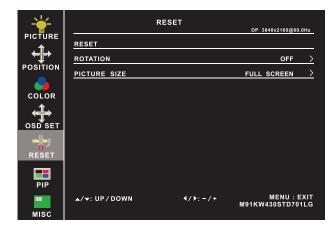
Signal source	e : Select the signal source - DP / HDMI1 / HDMI2
Mute	: Turn off the surrounding sound
Audio in	: Auto / Line in / DP
Volume	: Adjust the volume of sound
Sleep mode	: Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min

		мізс	DP 3840x2160@60.0	Hz
	SIGNAL SOURCE		DP	>
←	MUTE		OFF	>
POSITION	AUDIO IN		AUTO	>
	VOLUME		8	>
COLOR	SLEEP MODE		OFF	>
OSD SET				
RESET				
PIP				
MISC	▲/ ▼ : UP/DOWN	∢/ ▶: -/+	MENU:EX M91KW430STD701	

Options on Reset page

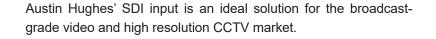
Rotation	: Rotate the image in Full screen or 1:1
	- 90° / 180° / 270°

Picture size : Adjust the image size in Full screen or 1:1

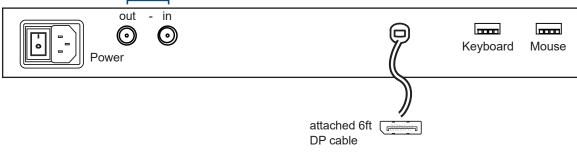


< Part 3 > Options < 3.1 > 3G / HD / SD-SDI input





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

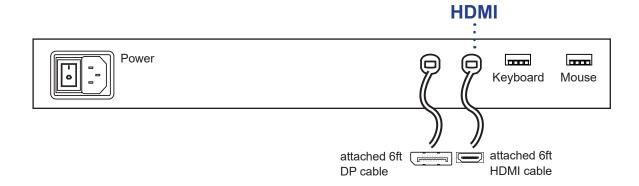
Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

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

- HDMI 2.0 (HDCP 2.2)



÷,

< 3.3 > Options : Touchscreen & driver



Capacitive Touch screen Specification

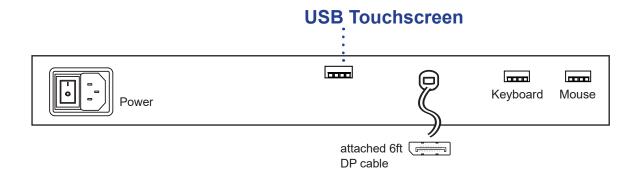
Model	TPC-10 Multi-touch
Technology	Projected Capacitive
Touch Point	10
Input Type	Finger or Capacitive Stylus
Resolution	4096 x 4096
Touch Point Accuracy	± 2 mm
Response Speed	< 5 ms
Activation Force	< 5 g
Surface Hardness	6H
Light Transmission	> 85%
Haze	3%↓
Durability	50 million touches
Top Layer	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 Touch screen Specification

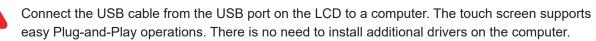
Model	TRB e-Resistive
Technology	5-Wire Resistive
Touch Point	Single
Input Type	Finger or Stylus
Resolution	2048 x 2048
Response Speed	15 ms
Activation Force	≤ 50 g
Surface Hardness	ЗН
Light Transmission	80% ± 3%
Haze	8% ± 3%
Durability	10 million touches
Top Layer	ITO Film
Bottom Layer	ITO Glass
Thickness	2.2 ± 0.2 mm
Connector	USB Type A
Compatibility	Windows 7 / XP / Vista, Linux

■ USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc

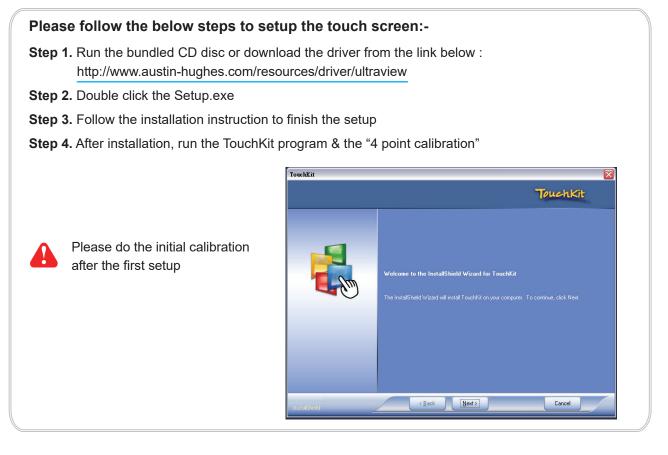
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully



TPC-10 Driver



TRB Driver

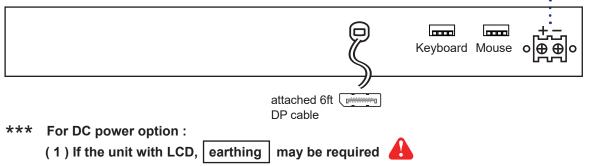


< 3.4 > Options : DC Power



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



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

< Part 4 > RKP2417K

< 4.1 > KVM Integration

RKP2417K

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-4KKVM-KIT.pdf

	IP	Remote	8-port	-	-
	0	0	- 801K	-	-

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RKP2417K with KVM	442 x 480 x 88 mm	585 x 620 x 190 mm	21.1 kg	27 kg
	17.4 x 18.9 x 3.5 inch	23 x 24.4 x 7.5 inch	46.4 lb	59.4 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.

All brand names, logo and registered trademarks are properties of their respective owners.

Copyright 2023 Austin Hughes Electronics Ltd. All rights reserved.