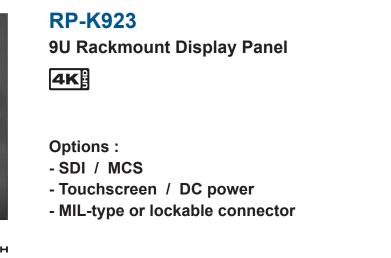


User Manual 23" 4K 3840 x 2160@60Hz LED-backlit LCD





Designed and manufactured by Austin Hughes

751

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Legal Information

First English printing, January 2025

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 labelled 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 A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

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

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.

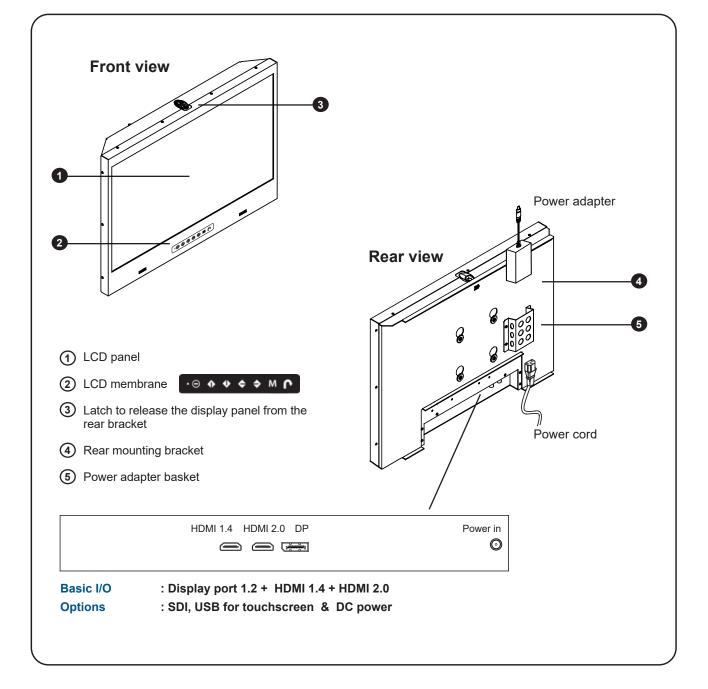
< Part 1 > < 1.1 > Package Content



RP-K923 unit X1

- 6ft DP cable X 1
- Power adapter X 1
- Power cord X1
- Fastener screw for rear bracket x 2

< 1.2 > Structure Diagram



< 1.2 > Dimension

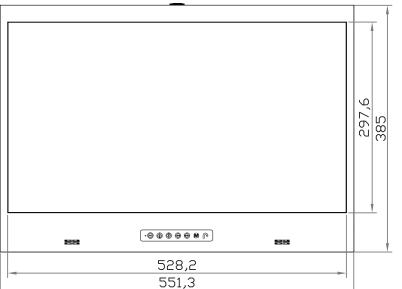
Front View



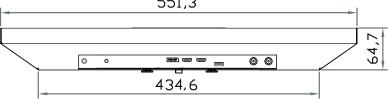
Side View

385

64,7

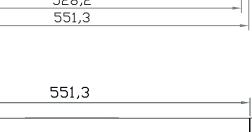


Bottom View

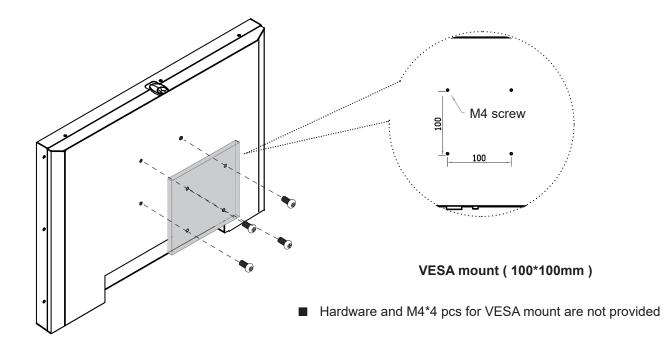


UNIT : mm 1mm = 0.03937 inch

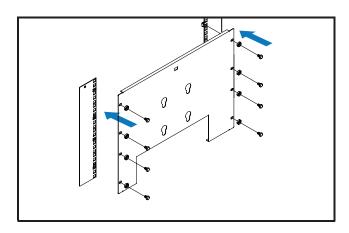
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RP-K923	551 x 65 x 385 mm	645 x 155 x 530 mm	8.8 kg	11.2 kg
	21.7 x 2.6 x 15.2 inch	25.4 x 6.1 x 20.9 inch	19.4 lb	24.6 lb



< 1.3 > VESA mount Installation



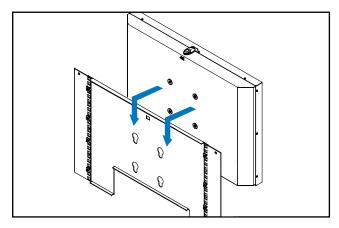
< 1.3 > Rear Mounting Bracket Installation





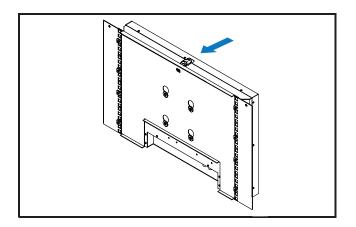
- Mount the rear bracket with M6 screw set.
- 8 x M6 screw set are required.

M6 screw sets are not provided.



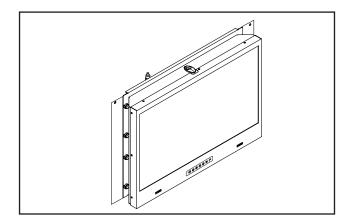


Insert the RP-K923 display panel into the rear bracket.





Fix the unit to the bracket with the top latch.





< Part 2 > < 2.1 > Product Specifications

LED-backlit LCD Panel	Native Resolution	3840 x 2160@60Hz
	Panel Size (diagonal)	23.8-inch TFT color LED-backlit LCD
	Brightness (cd/m²)	250
	Contrast Ratio (typ.)	1000:1
	Colors	1.07 Billion, 10-bit
	Viewing Angle(L/R/U/D)	89/89/89
	Response Time(ms)	25
	Dot pitch (mm)	0.13725
	Display Area(mm)	527.04H x 296.46V
	Surface treatment	Anti-glare
	Surface hardness	3Н
	Backlight Type	LED
	MTBF(hrs)	30,000

Video	Digital	Display port	DP 1.2 / HDCP 1.3
		HDMI	HDMI 1.4 / HDCP 1.4
			HDMI 2.0 / HDCP 2.2

Audio	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level 30kΩ / 2.8V	
	Speaker	Dual Stereo Speaker	2W x 2

* When the audio output is connected, speaker output is OFF

Power	Power Supply	Range	Auto-sensing 100 to 240VAC,
			50 / 60Hz
	Power Consumption	Screen ON	Max. 55W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W

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

RP-K923

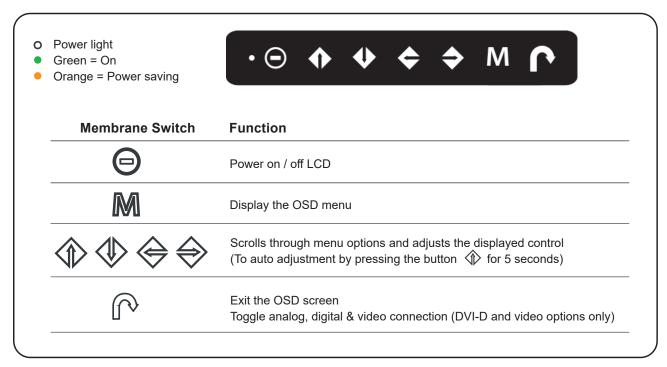
Environmental	-1 5	Temperature	0 to 55°C degree
Conditions		Humidity	10~90%, non-condensing
		Altitude	16,000 ft
		Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G RMS random

Physical Specification	Product (W x D x H)	480 x 48 x 266 mm
opecification		18.9 x 1.9 x 10.5 inch
	Packing (W x D x H)	645 x 155 x 530 mm
		25.4 x 6.1 x 20.9 inch
	Net Weight	4.2 kg / 9.2 lb
	Gross Weight	6.2 kg / 13.6 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
	HDMI Input		720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
		Audio Signal	2ch Linear PCM
		HDMI 2.0	3840 x 2160 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 > On-screen Display Operation (OSD)



Select another video input (only available for models with multiple video input) :

- (a) Press the button \bigcap to call up the on-screen video mode on top right corner.
- (b) Use up/down arrow $\langle \!\!\!\! \ensuremath{ } e \rangle \!\!\!\! \ensuremath{ } e \rangle$ to the select the video input
- (c) Press the button M to confirm the selection

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< 2.2 > On-screen Display Operation (OSD)

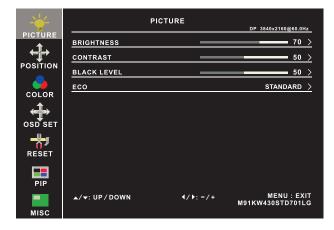
1 Picture

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



	F	POSITION	DP 384	0x2160@60.0I	Ηz
PICTURE	PICTURE SIZE		FULL	SCREEN	>
	DP VERSION			DP 1.2	>
COLOR					
OSD SET					
RESET					
PIP					
MISC	▲/▼: UP/DOWN	∢/ ▶: −/+		MENU:EX 30STD7011	

3 Color

2

Position

Picture size : Adjust the image size

DP version : Select the DP version

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

	c	COLOR	DP 3840x2160@60.0Hz
	COLOR TEMPERATURE		USER >
←	SHARPNESS		50 >
POSITION	HUE		<u> </u>
COLOR	SATURATION		50 >
	DYNAMIC LUMINOUS C	ONTROL	OFF >
OSD SET			
_∦,			
RESET			
PIP			
MISC	▲/ ▼ : UP/DOWN	∢/ ▶: -/+	MENU:EXIT M91KW430STD701LG

(4) OSD Set

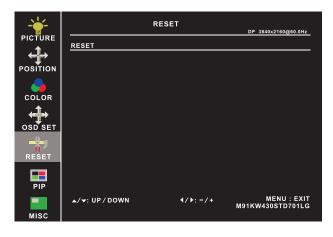
Language	: Select the language in which the OSD menu is displayed - English
OSD H-Position	: Align the screen image left or right
OSD V-Position	: Align the screen image up or down
OSD time out	: Adjust the screen timeout
OSD transparency	: Adjust the screen transparency
OSD size	: Adjust the screen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

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

< 2.2 > On-screen Display Operation (OSD)

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.	OHz
PICTURE	PIP MODE		PIP MODE	>
←₽	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	∢/ ▶: -/+	MENU:E M91KW430STD701	

7 MISC

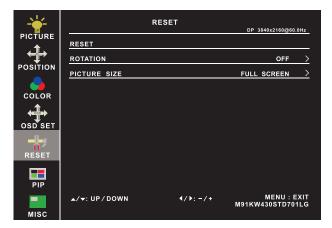
Signal source : Select the signal source - \ensuremath{DP} / $\ensuremath{HDMI1}$ / $\ensuremath{HDMI2}$		
Mute	: Turn off the surrounding sound	
Audio in	: Auto / Line in / DP	
Volume	: Adjust the volume of sound	
Sleep mode	: Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min /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

		MISC	DP 3840x2160@60.0Hz	
	SIGNAL SOURCE		DP >	
←¦→	MUTE		OFF >	
POSITION	AUDIO IN		AUTO >	
	VOLUME		<u> </u>	
	SLEEP MODE		OFF >	
OSD SET				
PIP				
MISC	▲/ ▼ : UP/DOWN	∢/ ▶: -/+	MENU:EXIT M91KW430STD701LG	

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



RP-K923

< 2.3 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

< 2.3.1 > Picture in Picture (PIP)

Mode

Display the Sub screen in the Main screen. OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow Large / Small / OFF



Position

Adjust the position of the Sub screen (top left, bottom left, top right, bottom right) OSD Menu \rightarrow MISC \rightarrow PIP Position \rightarrow top left / top right / bottom left / bottom right



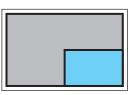
top left



bottom left



top right



bottom right

Size

Adjust the size of the Sub screen (Large / Small) OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow Large / Small

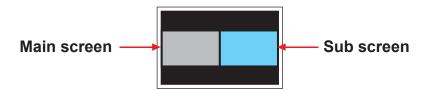
Size of Sub screen

LCD Monitor	Large Sub screen	Small Sub screen
1920 x 1200	552 x 414	480 x 360
1920 x 1080	552 x 414	480 x 360
1440 x 900	414 x 310	360 x 270
1366 x 768	392 x 294	340 x 254
1280 x 1024	368 x 276	320 x 240

< 2.3.2 > Picture By Picture (PBP)

Mode

Display the Sub screen next to the Main screen. OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow PBP



Size

LCD Monitor	Main / Sub screen
1920 x 1200	955 x 716
1920 x 1080	955 x 716
1440 x 900	715 x 536
1366 x 768	678 x 508
1280 x 1024	635 x 476

< 2.3.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen. OSD Menu \rightarrow MISC \rightarrow PIP Source \rightarrow HDMI / SDI

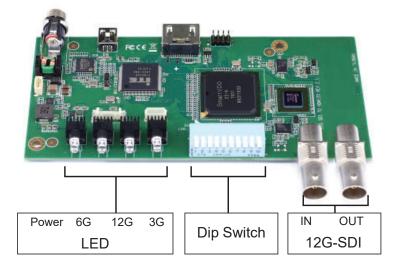
The PIP / PBP is operable in the following table :

Sub Main	HDMI	SDI
номі	х	о
SDI	0	х

< Part 3 > < 3.1 > Options : 12G / 4K60 / 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 displays, a SDI input module can support up to 3840 x 2160p @60Hz resolution without using additional space or power and it comes standard with a 2-year warranty.



Product Specifications

INPUT		Compatible Vi	deo Format	
12G-SDI IN	BNC RG6 / RG59 (75Ω)	12G-SDI IN	3840 x 2160p	@60 / 50fps
		6G-SDI IN	3840 x 2160p	@30 / 25 / 24fps
		3G-SDI IN	1920 x 1080p	@60 / 50fps
OUTPUT		HD-SDI IN	1920 x 1080p 1920 x 1080i	@30 / 25 / 24fps @60 / 50fps
12G-SDI OUT	BNC RG6 / RG59 (75Ω)		1280 x 720p	@60 / 50fps

Dip Switch Mode

Output Color	4	5
YUV444	OFF	OFF
YUV422	OFF	ON
RGB444	ON	OFF
YUV420	ON	ON

EQ	6	7
Auto	OFF	OFF
Disable	OFF	ON
Enable	ON	OFF

Out1 Cable length 8		
Short OFF		
Long	ON	



< 3.2 > Options : 3G / HD / SD-SDI input



Austin Hughes' SDI input is an ideal solution for the broadcastgrade 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.

SDI

0	0	HDMI 1.4 HDMI 2.0 DP	Audio OUT ©	Power in ©
in -	out			

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	@60 / 50Hz, 4:2:2
		1080p	@30 / 25 / 24Hz, 4:4:4
		1080i	@60 / 50Hz, 4:4:4
		720p	@60 / 50Hz, 4:4:4
	HD-SDI	1080p	@30 / 25 / 24Hz, 4:2:2
		1080i	@60 / 50Hz, 4:2:2
		720p	@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 / Asyn- chronized 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

< 3.3 > Options : MCS (Multi-display Control)

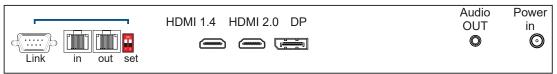


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various CyberView LCD display up to 64 units.

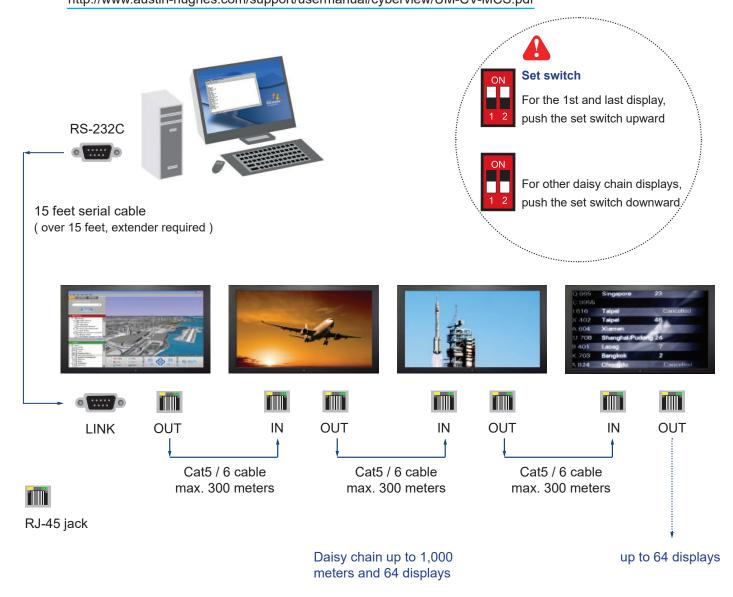
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

Designed for use with CyberView LCD displays, Austin Hughes provides a MCS input module without using additional space or power and it comes standard with a 2-year warranty.

MCS



*** Please download the protocol of MCS control at : http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MCS.pdf



< 3.4 > Options : Touchscreen & driver



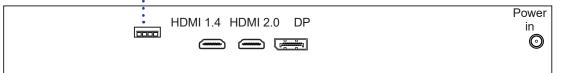
K23" USB Touchscreen Specification

Model	K23TPC-10 Multi-touch	TRB e-Resistive	
Technology	Projected Capacitive	5-Wire Resistive	
Touch Point	10 point touch standard (special requirement available)	Single	
Input Type	Finger or Capacitive Stylus	Finger or Stylus	
Resolution	4096 x 4096	2048 x 2048	
Touch Point Accuracy	± 2 mm	-	
Response Speed	< 5 ms	15 ms	
Activation Force	< 5 g	≤ 50 g	
Surface Hardness	6H	3H	
Light Transmission	> 85%	80% ± 3%	
Haze	3%↓	8% ± 3%	
Durability	50 million touches	10 million touches	
Top Layer	3 mm Glass	ITO Film	
Bottom Layer	0.7 mm Sensor Glass	ITO Glass	
Thickness	3.9 ± 0.1 mm	2.2 ± 0.2 mm	
Connector	USB	USB Type A	
Compatibility	Windows 7 / XP / Linux / Mac	Windows / Linux / Android / Mac	

Dimension will be changed if Multi-touch required

- 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

USB Touchscreen



< 3.4 > Options : Touchscreen & driver



K23TPC-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 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/rackmount-display
- 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



< 3.5 > Options : DC Power $\circ \bigoplus_{i=1}^{+-} \circ$



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%

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

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



< 3.6 > Options : MIL-type or Lockable Connector

	Input	Part no).	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P		MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P	S	MIL - DTL - 26482

*** There are several additional MIL DC and VGA connector types with varying design characteristics to meet cost considerations and to provide users with the most design flexibility possible. For more information, please contact us.

	Input	Part no.	Standard
Lockable Connector	(Male)	S S S S	D-type 3W3
	USB	LUSB - A111 - 00	-

*** MIL - type or Lockable connectors above can be integrated with our LCD displays. Sale service just for connectors not provided.

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