

# User Manual 17" FHD 1080p LCD



Designed and manufactured by Austin Hughes

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### Legal Information

First English printing, January 2019

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.
  - □ 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.

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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



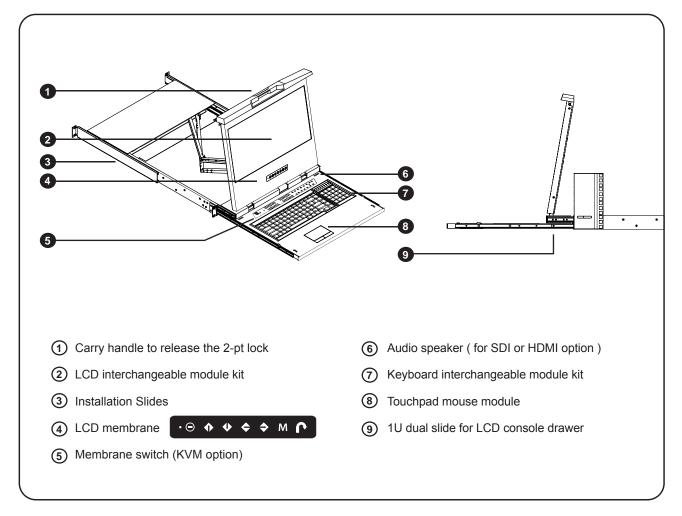
### **DF117 unit X1**

- CX-6 6ft DVI-D console cable X 1
  - (Alternative : CB-6 6ft VGA console cable)
- Power cord X1
- 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 & DC power.

### < 1.2 > Structure Diagram

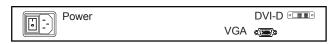


## < 1.2 > Dimension

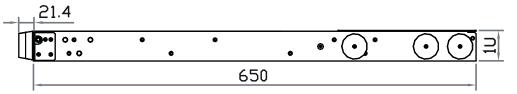
### **Front View**



### **Rear View**

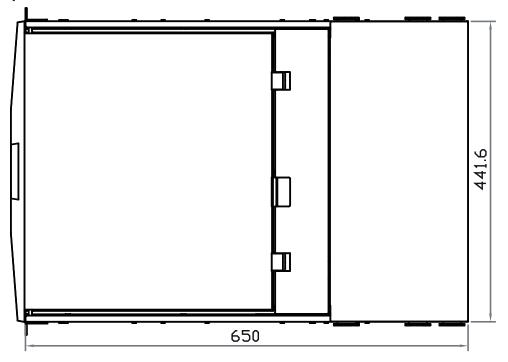


### Side View



UNIT : mm 1mm = 0.03937 inch

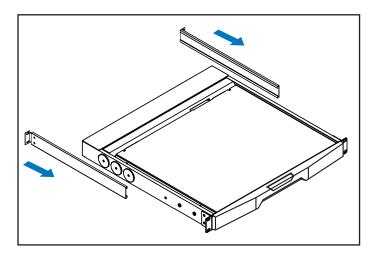
### **Top View**



Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
DF117	441.6 x 650 x 44 mm	595 x 860 x 140 mm	11.9 kg	17.9 kg
	17.4 x 25.6 x 1.73"	23.4 x 33.9 x 5.5"	26.2 lb	39.4 lb

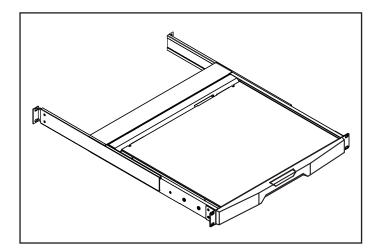
The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI & DC power.

# < 1.3 > Installation - How to install Installation Slides



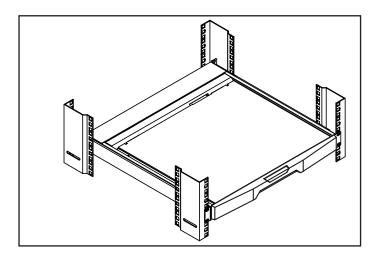


Insert the left and right rear mounting brackets into the LCD console drawer.





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





### Complete the installation

■ Fix the LCD console drawer into the rack.

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

# < 1.3 > Installation - How to Use the Dual Slides



Press the handle button and gently slide out the drawer.



■ Flip up the LCD to a suitable angle.



■ Operate the LCD console drawer.

# < 1.3 > Installation - How to Use the Dual Slides



■ Flip down the front panel.



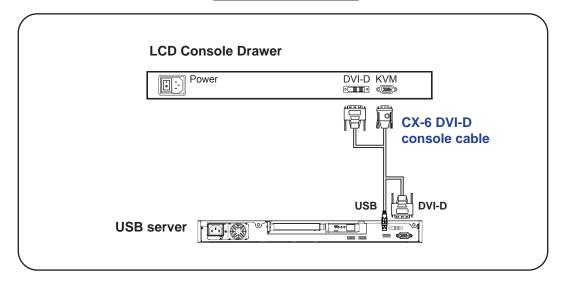
Press the handle button and gently push back the drawer into the rack.



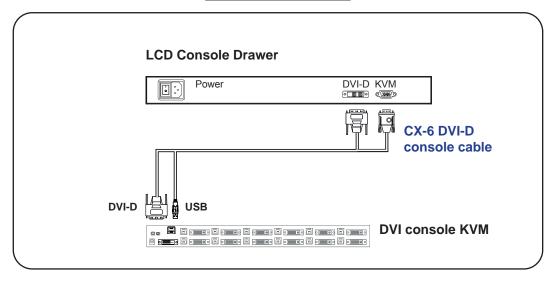
Return the LCD console drawer to park position.

< 1.4 > Connection to USB Server

### via CX-6 cable



< 1.4 > Connection to external KVM via CX-6 cable

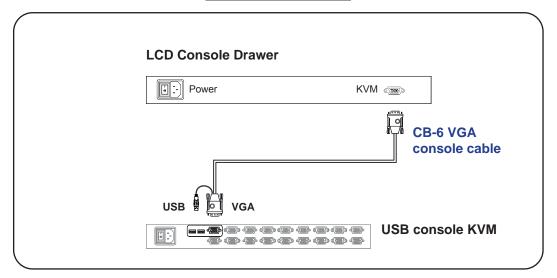


**Caution :** The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before 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.

< 1.4 > Connection to USB Server via CB-6 cable

	LCD Console Drawer		
	Power	KVM (m)	
		CB-6 VGA	ble
U	SB server		

< 1.4 > Connection to external KVM via CB-6 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 >

# < 2.1 > Product Specifications

LCD	Panel Size ( diagonal )	17.3-inch Widescreen TFT color LCD
Panel	Display pixel ( dots x lines )	1920 x 1080
	Brightness ( typ. )	400
	Contrast Ratio ( typ. )	600:1
	Color	16.7 M, 8-bit
	Viewing Angle ( L/R/U/D )	80/80/60/80
	Response Time (ms)	5.5
	Dot pitch (mm)	0.1989
	Display Area (mm)	381.888H x 214.812V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3Н
	Backlight Type	LED
	MTBF ( hrs )	50,000

Video	Digital	HDMI	HDMI 1.4, CEA-861-E
Connectivity		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
	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	Screen ON	Max. 25W
	for Single Console	Power saving mode	Max. 4W
		Power button OFF	Max. 1W
	Power Consumption	Screen ON	Max. 55W
	with KVM integration	Power saving mode	Max. 34W

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

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		Humidity	20~90%, non-condensing
	Storage / Non-operating	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	5~500Hz 1G RMS random

Physical Specification	Product (W x D x H)	441.6 x 650 x 44 mm
opeemeation		17.4 x 25.6 x 1.73 inch
	Packing (W x D x H)	595 x 860 x 140 mm
		23.4 x 33.9 x 5.5 inch
	Net Weight	11.9 kgs / 26.2 lbs
	Gross Weight	17.9 kgs / 39.4 lbs

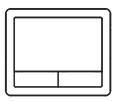
Applicable	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz
Format			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz
	HDMI Input	PC Signal	Same as VGA
		HDMI 1.4	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 > Keyboard / Mouse Specifications



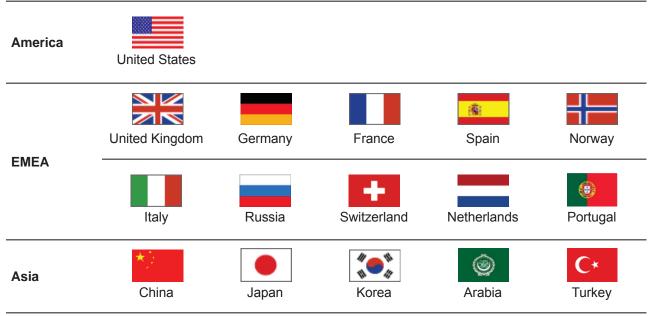
G keyboard integrated with touchpad

	Lost / * - 7 8 9 1 990 + 4 5 6 - 1 2 3 1 2 3 End 2 Enter 0 •
--	---



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**



# < 2.2 > MAC Keyboard / Mouse Options



MAC keyboard integrated with touchpad



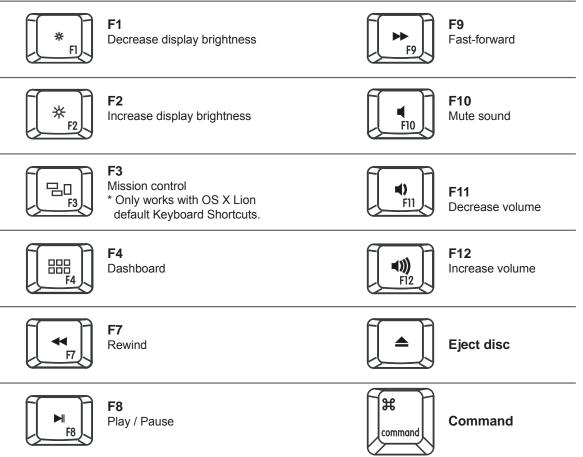
### **Supporting layouts**

America



### How to Use "MAC" Keyboard

### **Keyboard Features**



# < 2.2 > SUN Keyboard / Mouse Options



S keyboard integrated with touchpad

™ 1 ∅ ∳ % ∧ Å Å ( ) -   1 2 3 4 5 6 7 8 9 0 -	Home Home Home
	Refum-
	The same and the s
	Front Del .

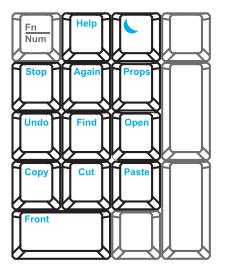


### S keyboard integrated with touchpad / trackball



- 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

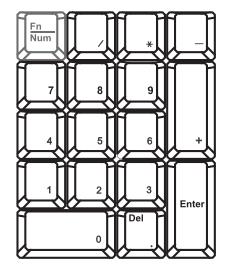


Num LED in Off mode Key pad behaves as a SUN Solar system administration command mode

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

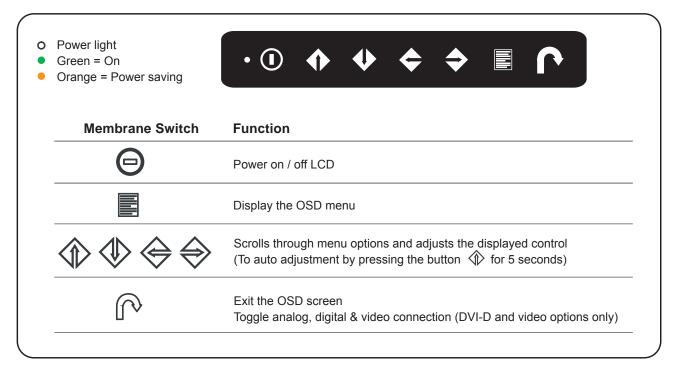


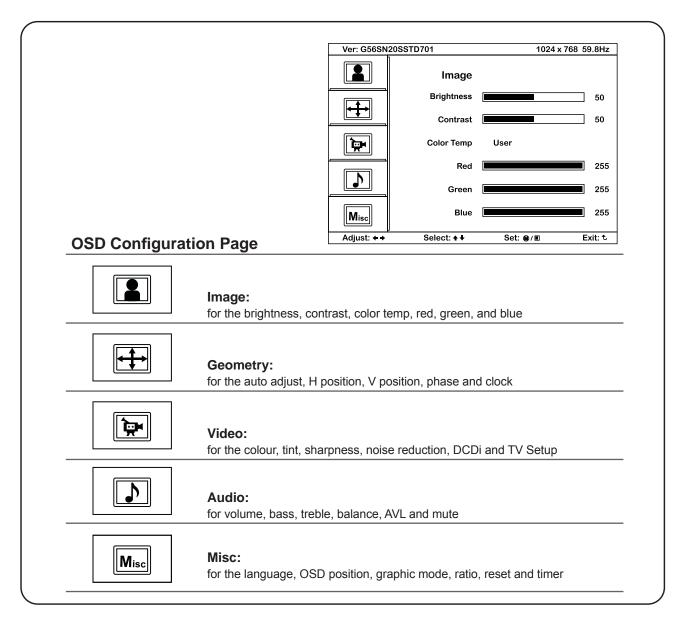
**F11** Audio : Decrease volume Display : Decrease contrast



**F12** Audio : Increase volume Display : Increase contrast

# < 2.3 > On-screen Display Operation ( OSD )





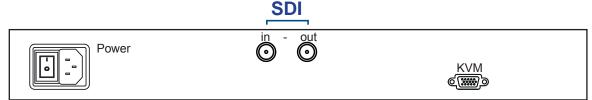
# < Part 3 > < 3.1 > Options : 3G / HD / SD-SDI input

**DF117** 



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.



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	

### < 3.2 > Options :

- HDMI (HDMI 1.4, CEA-861-E

(1) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

)

Power HDMI DVI-D © IIII • KVM © IIII •
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# < 3.3 > Options : DC Power



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

# DC power

 ●	o KVM	DVI-D ∘

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



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

## < Part. 4 > KVM Integration

Matrix Cat6 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-MUKVM-KIT.pdf

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

Cat6 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

Matrix	Local	Remote	IP	8-port	16-port	32-port
DB-15 KVM	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

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

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

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

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DF117 with KVM	441.6 x 650 x 44 mm	595 x 860 x 140 mm	12.9 kg	18.9 kg
	17.4 x 25.6 x 1.73"	23.4 x 33.9 x 5.5"	28.4 lb	41.6 lb

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