CyberView™ ^{TM}

CyberView™ dedicated KVM switch and rackmount screen technology

User Manual   21.5" FHD 1920 x 1080 LED-backlit LCD

RP-F921

9U Rackmount Display Panel

1080p Full HD

Options :
- DC power

FC CE UK CA TAA COMPLIANT RoHS REACH

751

Designed and manufactured by Austin Hughes

Legal Information

First English printing, January 2024

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 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.
  □ 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 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.

Contents

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.

< 1.1 > Package Content

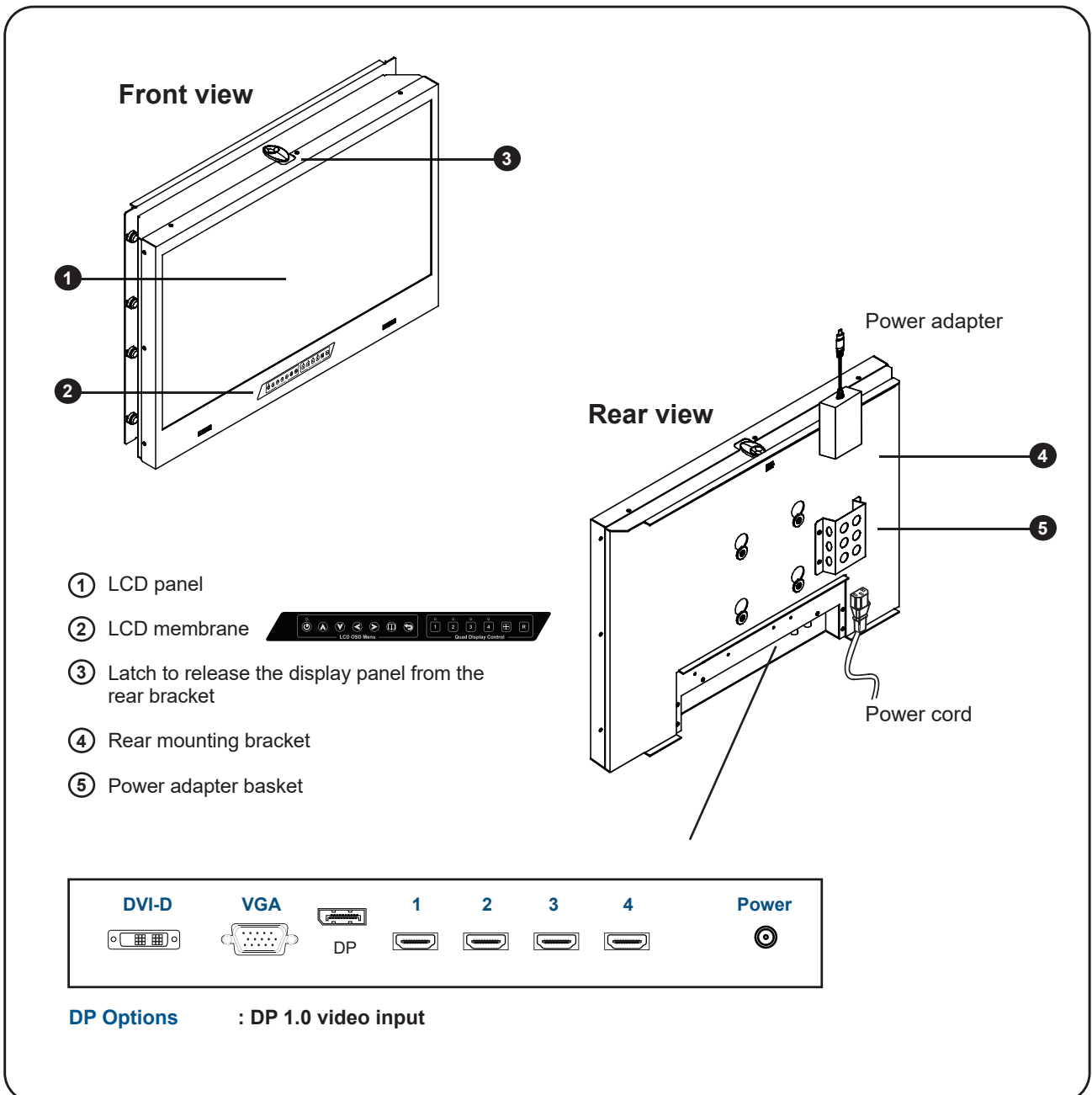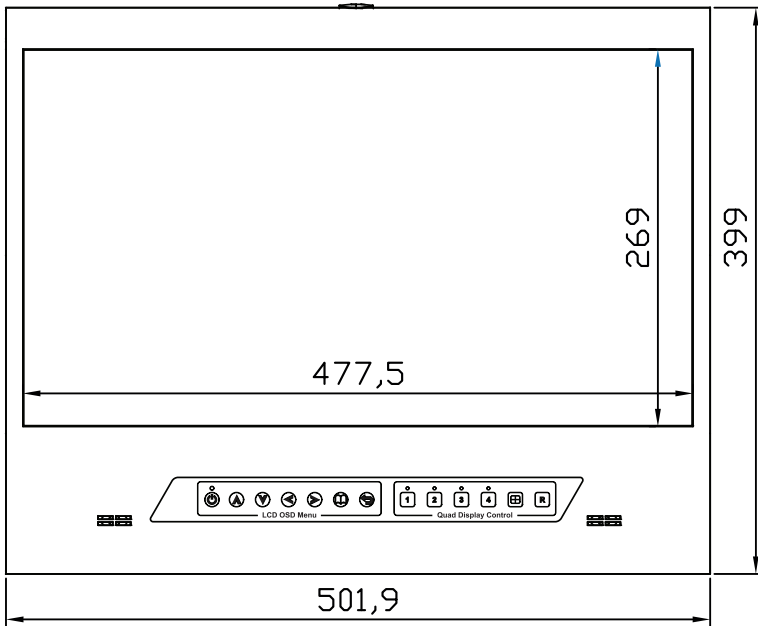**RP-F921QD-1080 unit X 1**

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

< 1.2 > Structure Diagram
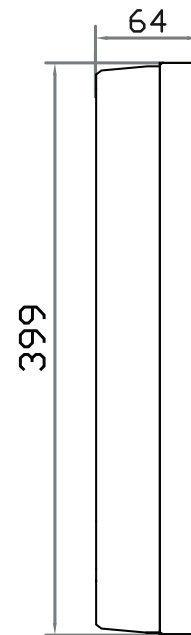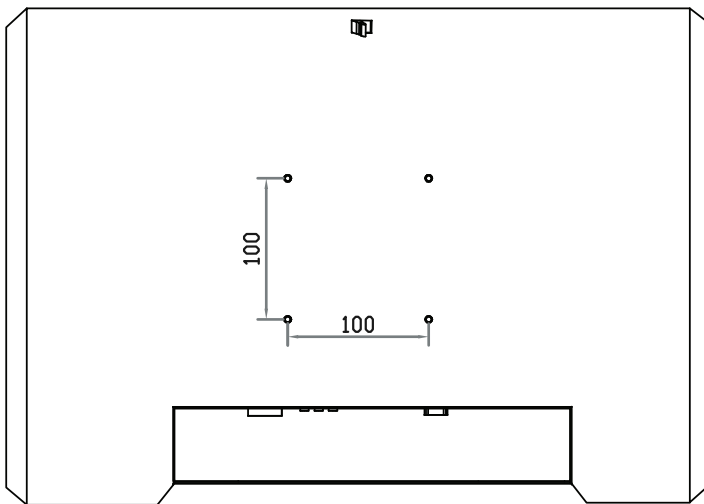

Front view

Rear view

Power adapter

Power cord

① LCD panel

② LCD membrane

③ Latch to release the display panel from the rear bracket

④ Rear mounting bracket

⑤ Power adapter basket

DVI-D	VGA	DP	1	2	3	4	Power

DP Options : **DP 1.0 video input**

< 1.2 > Dimension

Front View

Side View

64

269

399

399

477,5

501,9

UNIT : mm

1mm = 0.03937 inch

Rear View

100

100

Bottom View

64

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RP-F921QD-1080	501.9 x 64 x 399 mm 19.8 x 2.5 x 15.7 inch	585 x 124 x 557 mm 23 x 4.9 x 21.9 inch	9.5 kg 20.9 lb	12.5 kg 27.5 lb

VESA mount (100*100mm)

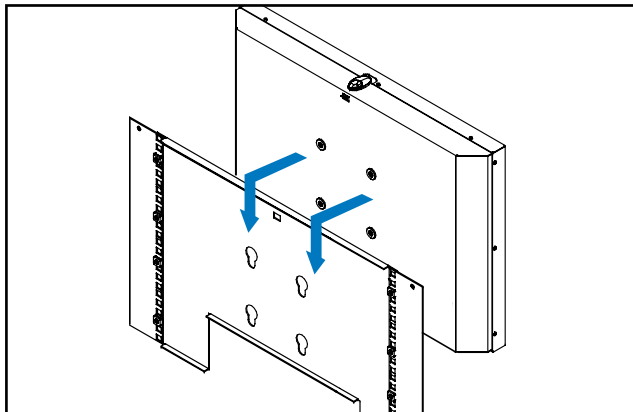■ Hardware and M4*4 pcs for VESA mount are not provided
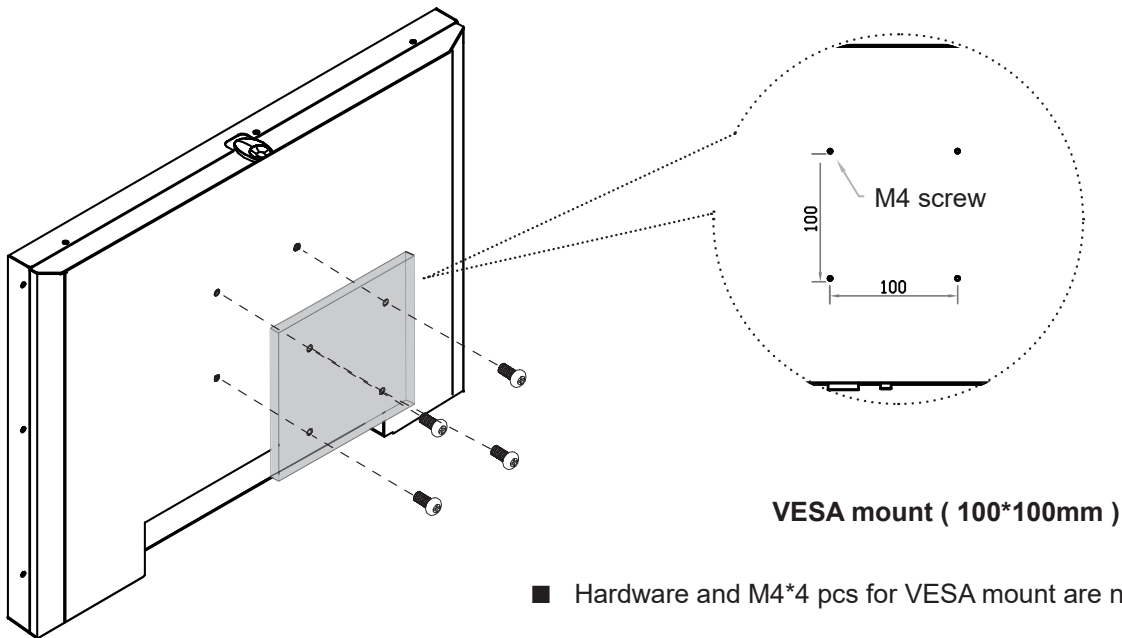
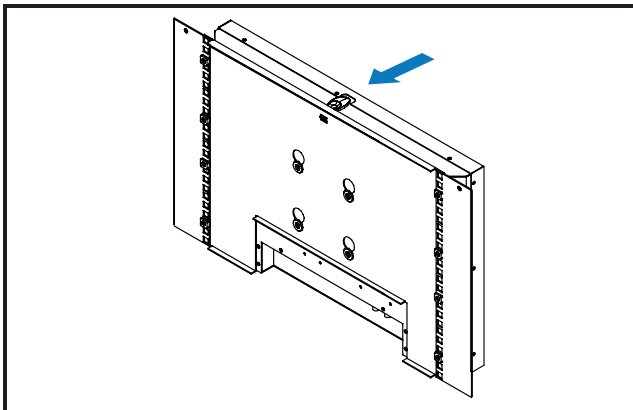## < 1.3 > Rear Mounting Bracket Installation
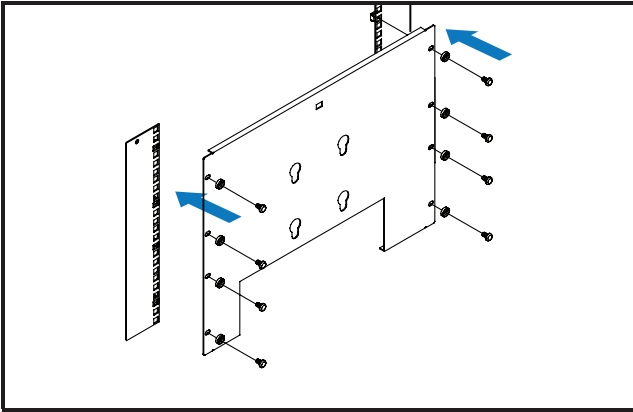
Step **1**

■ Mount the rear bracket with M6 screw set.

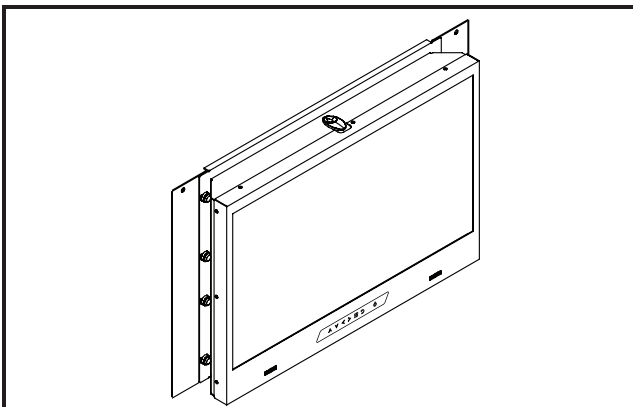■ 8 x M6 screw set are required.

M6 screw sets are not provided.

Step **2**

■ Insert the RP-F821 display panel into the rear bracket.

Step **3**

■ Fix the unit to the bracket with the top latch.

Step **4**

Complete the installation

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< Part 2 > Specifications / OSD
< 2.1 > Product Specifications

LED-backlit LCD Panel	
Panel Size (diagonal)	21.5-inch Widescreen TFT color LED-backlit LCD
Native resolution	1920 x 1080
Brightness (cd/m²)	250
Contrast Ratio (typ.)	1000:1
Colors	16.7 M
Viewing Angle (L/R/U/D)	85/85/80/80
Response Time (ms)	5
Dot pitch (mm)	0.248
Display Area (mm)	476.64H x 268.11V
Surface treatment	Haze 25%, Hard-coating
Surface hardness	3H
Backlight Type	LED
MTBF (hrs)	30,000

Video	
VGA	Analog 0.7Vp-p
DVI	DVI-D single link
HDMI x 4	HDMI 1.3, CEA-861-D

Mounting	
Rackmount	9U
VSEA mount	100 x 100 mm

Power	Standard
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz
Consumption:	
Screen ON	Max. 28W
Power saving mode	Max. 2W
Power button OFF	Max. 1W

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

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 vibration

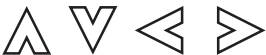| Physical Specification	
Product (W x D x H)	
mm	501.9 x 64 x 399 mm
inch	19.8 x 2.5 x 15.7 inch
Packing (W x D x H)	
mm	585 x 124 x 557 mm
inch	23 x 4.9 x 21.9 inch
Net Weight	9.5 kg / 20.9 lb
Gross Weight	12.5 kg / 27.5 lb

* 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	1920 x 1080 x 60Hz
		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 1.3	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

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○ Power light
● Green = On
● Orange = Power saving

LCD OSD Menu
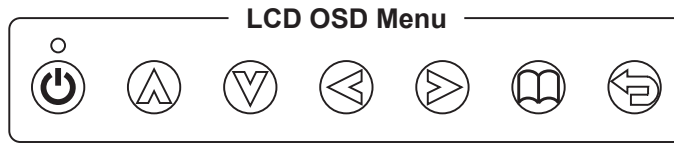
Membrane Switch	Function
⏻	Power on / off LCD
📖	Display the OSD menu
∧ ∨ ◁ ▷	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ∧ for 5 seconds)
⬅	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

① All the LED touch buttons will automatically 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 ⬅ to call up the on-screen video mode on top right corner.

(b) Use up/down arrow ∧ ∨ to the select the video input

(c) Press the button 📖 to confirm the selection

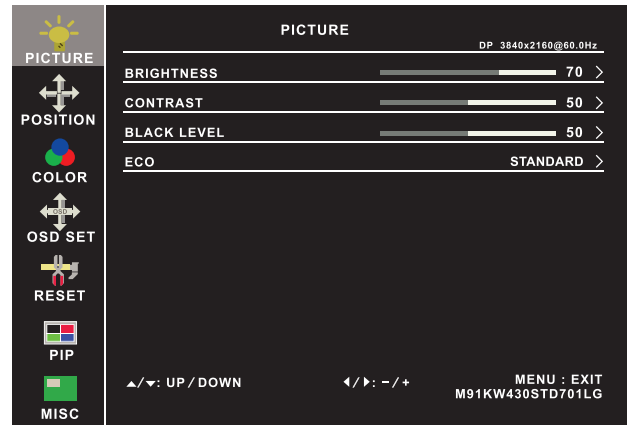# < 2.2 > On-screen Display Operation (OSD)

① Picture

Brightness : Adjust the screen brightness

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

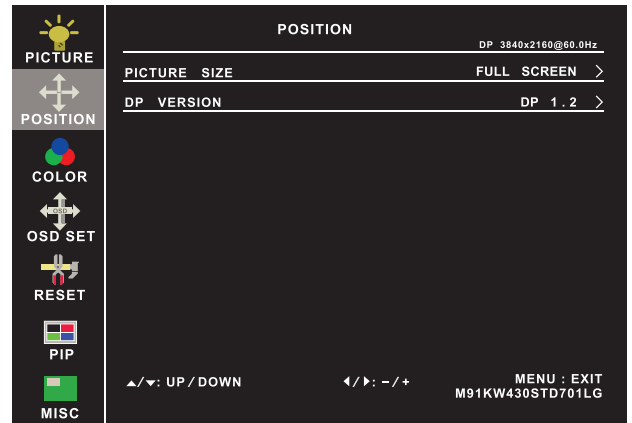Black level : Adjust background black level of the screen

Eco : Screen in power saving mode

```
PICTURE
                                        DP  3840x2160@60.0Hz
BRIGHTNESS                              ▬▬▬▬▬  70  >
CONTRAST                               ▬▬▬▬    50  >
BLACK LEVEL                            ▬▬▬▬    50  >
ECO                                        STANDARD  >

▲/▼: UP/DOWN          ◄/►: −/+          MENU : EXIT
                                       M91KW430STD701LG
```

② Position

Picture size : Adjust the image size
   - Full Screen / 4:3 / 5:4 / Pixel to Pixel

DP version : Select the DP version

```
POSITION
                                        DP  3840x2160@60.0Hz
PICTURE  SIZE                          FULL  SCREEN  >
DP  VERSION                            DP  1.2  >

▲/▼: UP/DOWN          ◄/►: −/+          MENU : EXIT
                                       M91KW430STD701LG
```
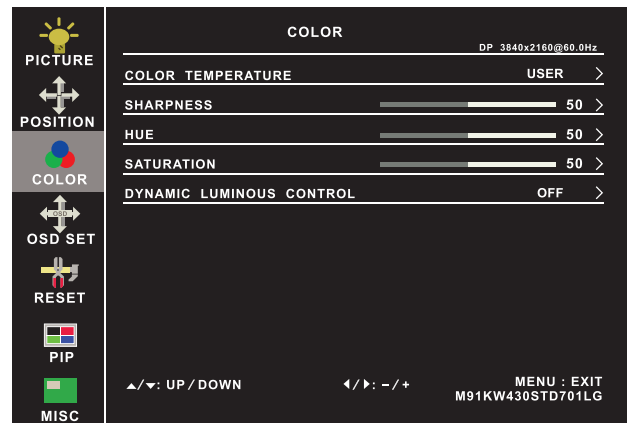
③ Color

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 luminous control : Control the dynamic brightness

```
COLOR
                                        DP  3840x2160@60.0Hz
COLOR  TEMPERATURE                     USER      >
SHARPNESS                              ▬▬▬▬    50  >
HUE                                    ▬▬▬▬    50  >
SATURATION                             ▬▬▬▬    50  >
DYNAMIC  LUMINOUS  CONTROL             OFF       >

▲/▼: UP/DOWN          ◄/►: −/+          MENU : EXIT
                                       M91KW430STD701LG
```

④ OSD Set

Language : Select the language in which the OSD menu is displayed - English

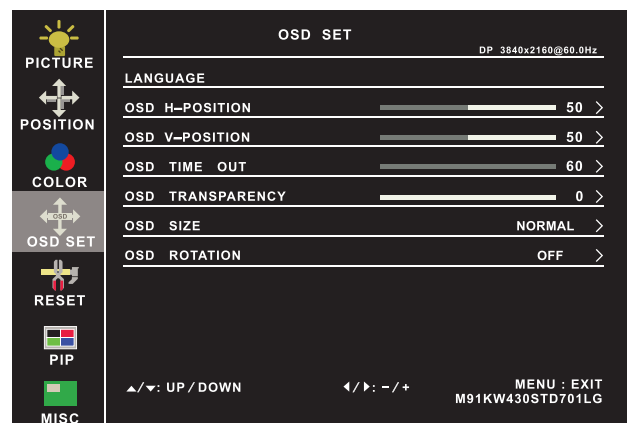OSD H-Position : Align the screen image left or right

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  >
OSD V−POSITION                         ▬▬▬▬    50  >
OSD  TIME  OUT                         ▬▬▬▬    60  >
OSD  TRANSPARENCY                      ▬▬▬▬     0  >
OSD  SIZE                              NORMAL    >
OSD  ROTATION                          OFF       >

▲/▼: UP/DOWN          ◄/►: −/+          MENU : EXIT
                                       M91KW430STD701LG
```

⑤　Reset

Reset　　　:　Return the adjustment back to factory setting

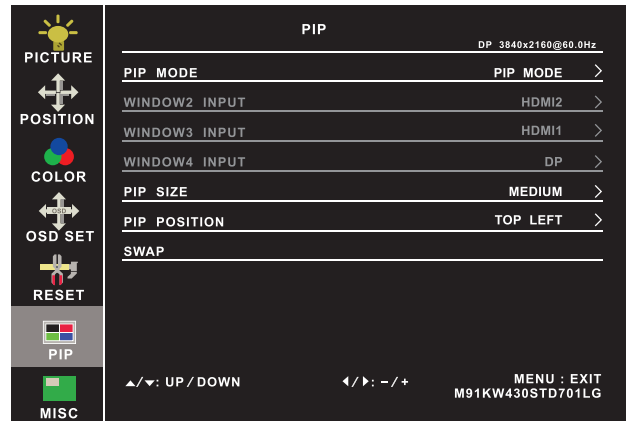|	
PICTURE	RESET
POSITION	DP 3840x2160@60.0Hz
COLOR	RESET
OSD SET	
RESET	
PIP	
MISC	▲/▼: UP / DOWN ◀/▶: − / + MENU : EXIT M91KW430STD701LG
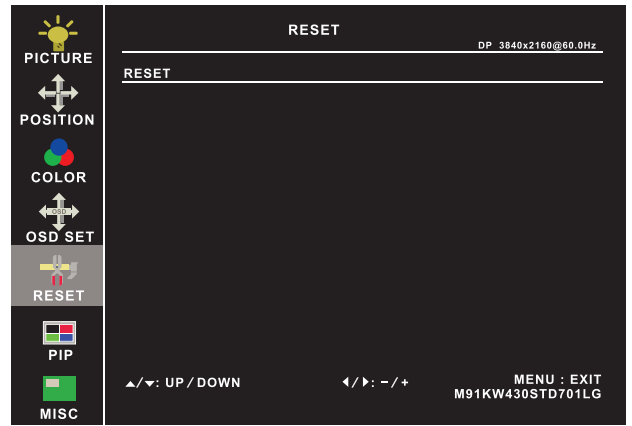
⑥　PIP (Not Applicable to F17 / MF17)

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

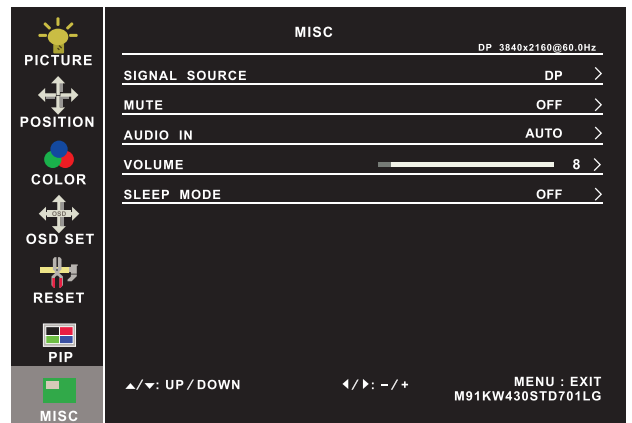|	
PICTURE	PIP
	DP 3840x2160@60.0Hz
POSITION	PIP MODE PIP MODE ❯
	WINDOW2 INPUT HDMI2 ❯
COLOR	WINDOW3 INPUT HDMI1 ❯
	WINDOW4 INPUT DP ❯
OSD SET	PIP SIZE MEDIUM ❯
RESET	PIP POSITION TOP LEFT ❯
	SWAP
PIP	
MISC	▲/▼: UP / DOWN ◀/▶: − / + MENU : EXIT M91KW430STD701LG

⑦　MISC

Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute　　　　: Turn off the surrounding sound

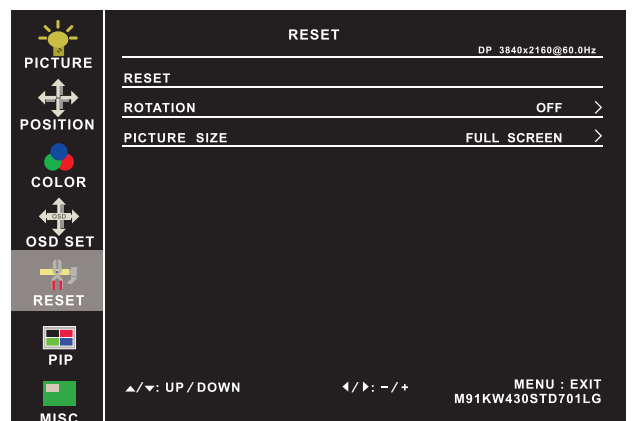Audio in　　: Auto / Line in / DP

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

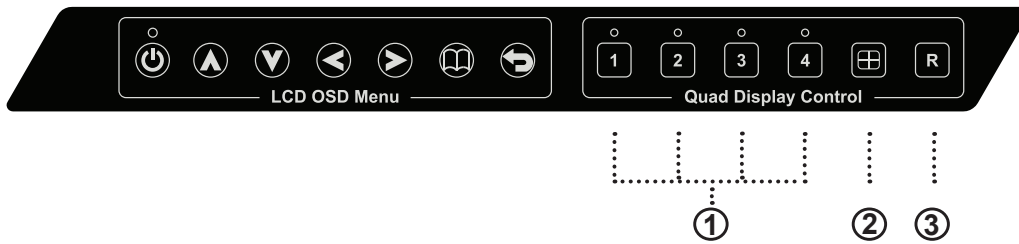|	
PICTURE	MISC
	DP 3840x2160@60.0Hz
POSITION	SIGNAL SOURCE DP ❯
	MUTE OFF ❯
COLOR	AUDIO IN AUTO ❯
	VOLUME 8 ❯
OSD SET	SLEEP MODE OFF ❯
RESET	
PIP	
MISC	▲/▼: UP / DOWN ◀/▶: − / + MENU : EXIT M91KW430STD701LG

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

PICTURE	RESET
	DP 3840x2160@60.0Hz
POSITION	RESET
	ROTATION OFF ❯
COLOR	PICTURE SIZE FULL SCREEN ❯
OSD SET	
RESET	
PIP	
MISC	▲/▼: UP / DOWN ◀/▶: − / + MENU : EXIT M91KW430STD701LG

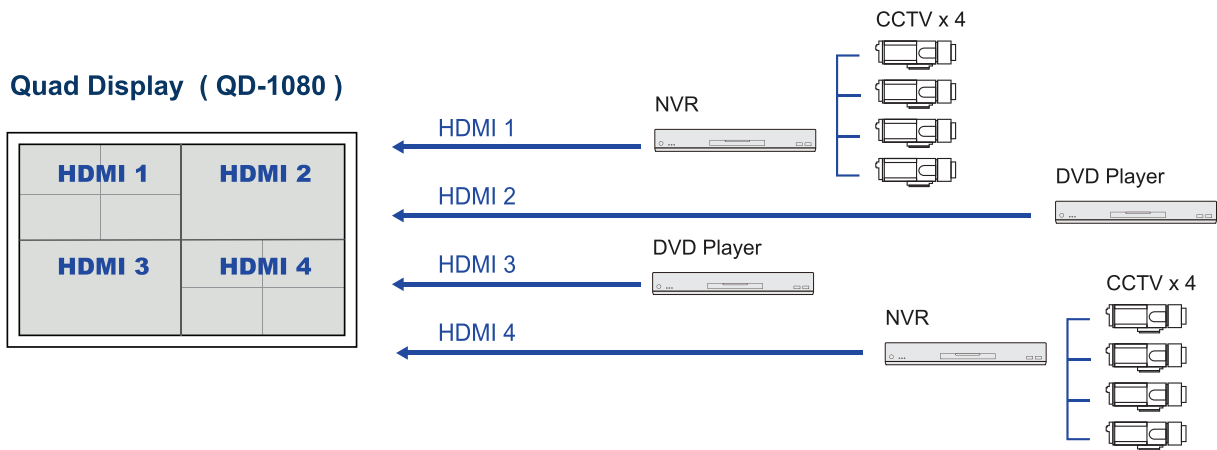# < Part 3 > Quad Display Connection & Operation
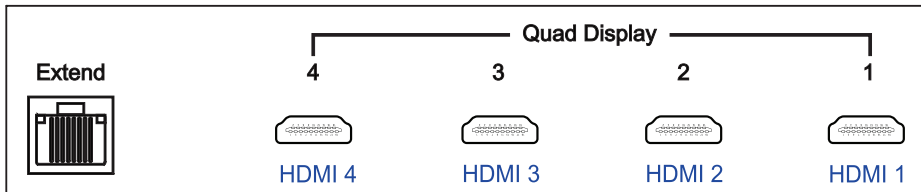## < 3.1 > QD-1080 Operation

①
| 1 | 2 | 3 | 4 |

Press this button to select specific input to be displayed in full screen

②
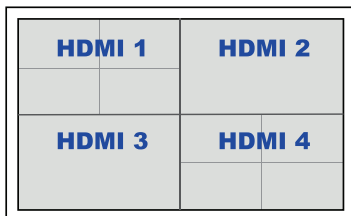Press this button to switch between Quad/ Full Screen display mode

③ **R**
Press this button to select the HDMI output resolution

Quad Display (QD-1080)

HDMI 1	**HDMI 2**
HDMI 3	**HDMI 4**

HDMI 1

NVR

CCTV x 4

HDMI 2

DVD Player

HDMI 3

DVD Player

HDMI 4

NVR

CCTV x 4

Quad Display
(QD-1080)

Extend | Quad Display |
4 | 3 | 2 | 1
HDMI 4 | HDMI 3 | HDMI 2 | HDMI 1

Extension Module
(QD-E1080)

Cat6 cable
Max. 50m

HDMI 1	**HDMI 2**
HDMI 3	**HDMI 4**

Extension Module (QD-E1080)

< 3.3 > QD-1080 Specification

| Item		Description	
Video Bandwith		2.25 Gbps	
Input Port		HDMI x 4	
Output Port		HDMI x 1	
Output Port Option		UTP x 1	
Input Resolution		480i 60Hz,	1080i 50/60Hz,
		480p 60Hz,	800x600 @60,
		576i 50Hz,	1024x768 @60,
		576p 50Hz,	1280x720 @60,
		720p 50/60Hz,	1920x1080 @60;
		1080p 24/30/50/60Hz	
Output Resolution		1080p	1024x768
		1080i	1360x768
		720p	
Audio Output		PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1	
ESD Protection	Human Body model	±8 kV (air-gap discharge) ±4 kV (contact discharge)	

< 4.1 > DP

DP Option
- Display Port (DP 1.0, HDCP 1.3)
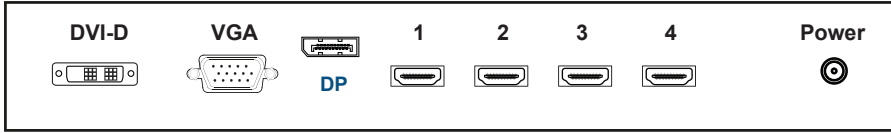
< 4.2 > DC Power
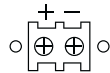
Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	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%

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

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