

# 4K UHD Carry-on/ Desktop Monitors

---

Quad Split LCD Display  
15.6"/17.3"/23.8"/28"



## User Manual

## **Product Overview**

Thank you for using our 4K broadcast Monitor. This monitors adopt digital signal processing circuit and professional LCD screen, which makes it high brightness, stable performance and low radiation etc., also has strong compatibility, adjustable color temperature control. Its advanced features include Image Split Display, False Color, Center Marker, Screen Marker, Zoom, Display Rotate, Check Field, etc. It is an ideal NLE (Nonlinear Edit) matching monitor.

To meet different customers' needs, our monitor is equipped with serial digital interface signals SDI, HDMI (and HDMI-1 input support HDMI 2.0), DVI, VGA, AUDIO Inputs etc.

**To insure best use of the unit, please read the user's manual carefully.**

## **CAUTION**

1. Please use the adapter attached in the accessory, if necessary, please use qualified adapter.
2. Please do NOT expose this product directly in the sunlight, heat, and humid conditions.
3. Please keep the monitor away from the strong light while using this product to ensure the image effect and long-term use.
4. Please avoid heavy impact or drop onto the ground.
5. Please do NOT use chemical solutions to clean this product.  
Please wipe the monitor with a clean soft cloth to maintain the brightness of the surface.

6. No adjustable components are in the monitor. Please do not take apart or repair the unit by yourself, to avoid the damage of the product.

## **Product Feature**

- ◆ 4K Ultra HD Resolution (3840 x 2160)
- ◆ Ultra Vivid
- ◆ False Color
- ◆ Center Marker and Safety Marker
- ◆ Image Freeze: The current picture still (capture function)
- ◆ Display Rotate
- ◆ Check Field (Red, Green, Blue, Mono)
- ◆ Display Mode could set 1P, 2P-LR, 2P-TB, PIP, 4P
- ◆ Zoom: Upper Left, Upper Right, Lower Left, Lower Right, Center1, Center2
- ◆ Aspect Ratio could select Full, 16:9, 4:3, 5:4, 1:1
- ◆ Color Temperature (3200K, 6500K, 5500K, User, 9300K, 7500K)
- ◆ Panel buttons (F1 ~ F4) function custom settings
- ◆ Front panel stereo earphone output

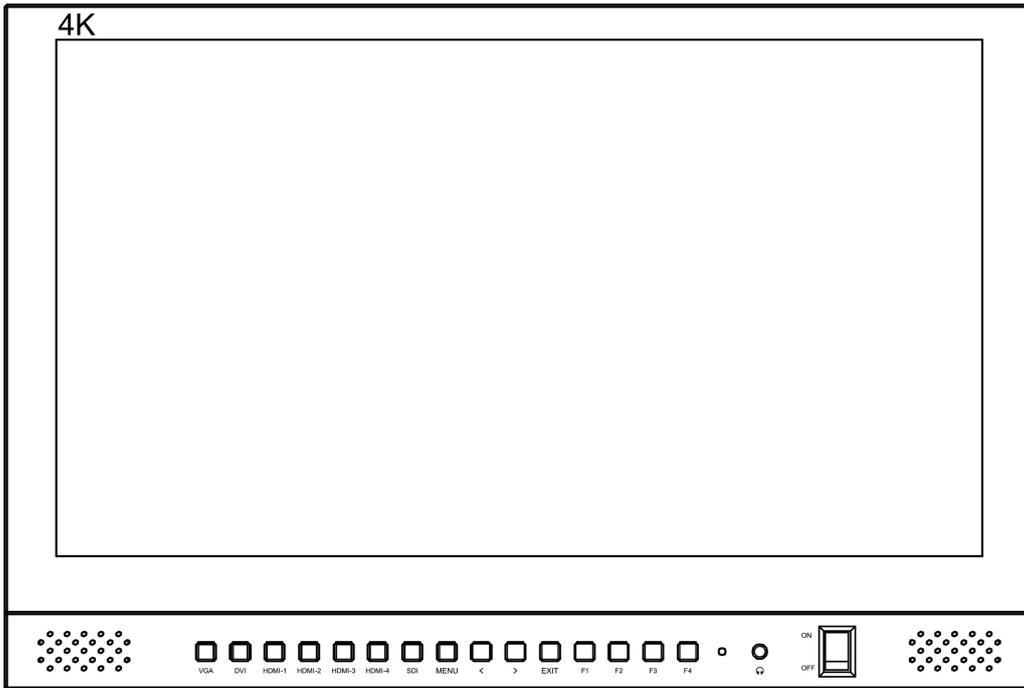
# CONTENTS

|  |           |
|--|-----------|
| <b>1. Product Description</b>                    | <b>4</b>  |
| 1.1 Front Panel Features                         | 4         |
| 1.2 Rear Panel Features                          | 5         |
| 1.3 Carry-on/ Desktop Optional                   | 7         |
| 1.4 Battery Plates                               | 8         |
| 1.5 Power Input Way                              | 9         |
| 1.6 TALLY Indicator Connection                   | 10        |
| <b>2. Button Shortcut Operation Instructions</b> | <b>10</b> |
| <b>3. Menu Operation Instructions</b>            | <b>12</b> |
| <b>4. Menu Function Instructions</b>             | <b>12</b> |
| <b>5. Support Signal Formats</b>                 | <b>16</b> |
| <b>6. Parameters</b>                             | <b>16</b> |
| <b>7. Trouble Shooting</b>                       | <b>17</b> |

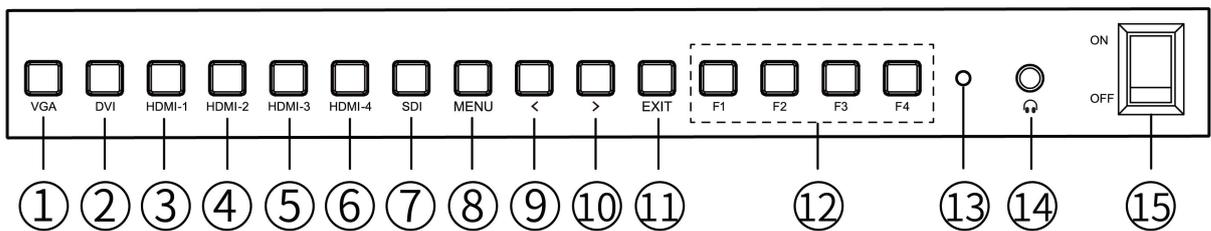
# 1. Product Description (Take 17" as an example)

**Note:** Different sizes are slightly different in appearance, please refer to the actual product.

## 1.1 Front Panel Features



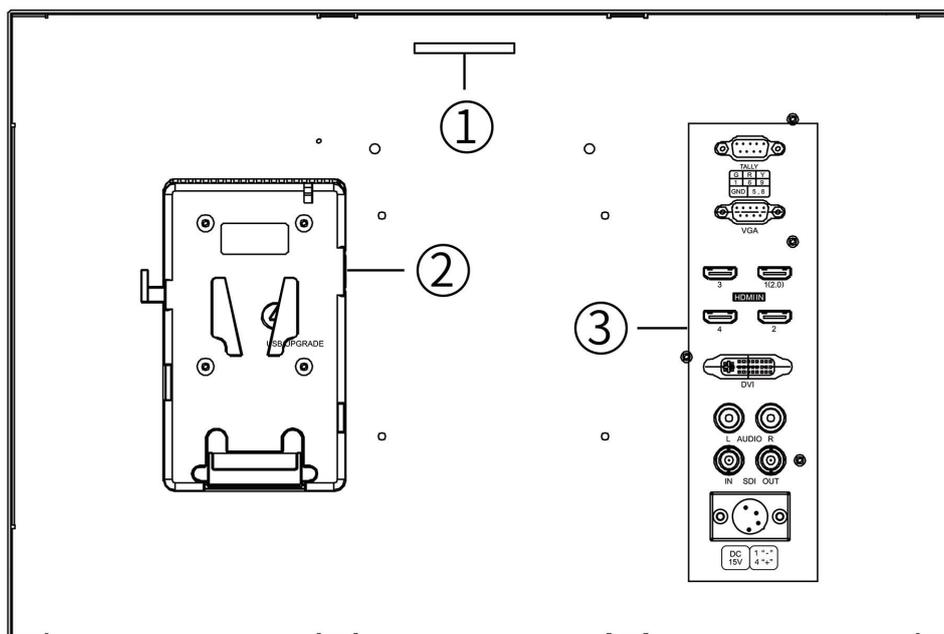
### Panel Button Instructions



- ①. **VGA:** VGA signal input selection
- ②. **DVI:** DVI signal input selection
- ③. **HDMI-1:** HDMI-1 signal input selection  
(This port supports HDMI2.0).
- ④. **HDMI-2:** HDMI-2 signal input selection

- ⑤. **HDMI-3**: HDMI-3 signal input selection.
- ⑥. **HDMI-4**: HDMI-4 signal input selection.
- ⑦. **SDI**: SDI signal input selection.
- ⑧. **MENU**: Menu entry and items selection.
- ⑨. **<**: Volume down, when enter into the menu it is for up button selection.
- ⑩. **>**: Volume up, when enter into the menu it is for down button selection.
- ⑪. **EXIT**: Menu exit
- ⑫. **Custom button F1~F4**
- ⑬. **Power Indicator**
- ⑭.  : Earphone jack output port
- ⑮. **Power ON/OFF**

## 1.2 Rear Panel Features

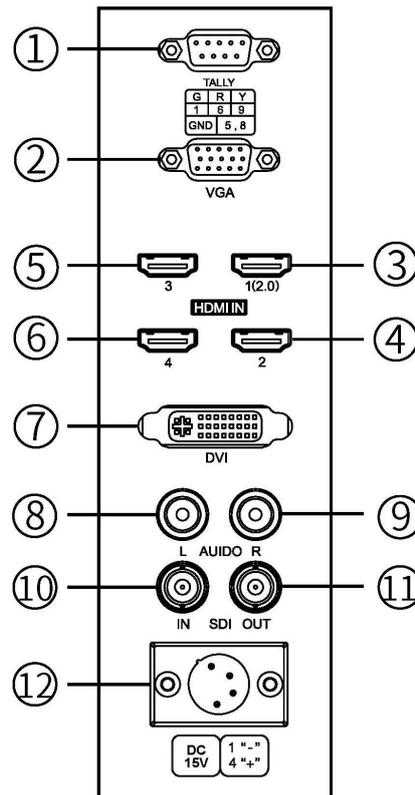


①. **TALLY** (indicator)

②. **Battery Plate slot:** According to the users' requirements selection. (Please check battery plates instructions)

③. **Interfaces** (See below Interfaces instructions)

### 📁 Interfaces Instructions



①. TALLY indicator signal input

②. VGA signal input.

③. HDMI-1(2.0) signal input

④. HDMI-2 signal input

⑤. HDMI-3 signal input

⑥. HDMI-4 signal input

⑦. DVI signal input

⑧. Audio signal L stereo input

⑨. Audio signal R stereo input

- ⑩. SDI signal input
- ⑪. SDI signal output
- ⑫. 4-pin XLR DC power input

### 1.3 Carry-on/ Desktop Optional

- Desktop (Stand Feet)



- Desktop (U Bracket)



- Carry-on





#### 1.4 Battery Plates



**Panasonic Anton Plate**



**Sony V-Mount Plate**

We assemble the suitable battery plate for the customers according to the different requirements of the batteries. If the customers have no requirement on the battery, the factory assembles Sony V-Mount Plate by default.

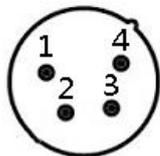
**Remark:** According to the different specification of the battery, the capability is different, and the working time for the monitor will be different. Higher capability (working time) will be longer.

## 1.5 Power Input Way

There are some ways of power supply to our monitor as below:

**A.** Via 4 pin XLR interface power supply, to share power with the camera or via power adapter input.

Polarity of the 4-pin XLR power input as below image, please note the polarity of the power input, otherwise it may damage monitor.



| Pin number | Signal        |
|------------|---------------|
| 1          | GND           |
| 2          | No connection |
| 3          | No connection |
| 4          | V+            |

**B.** Add battery into the monitor battery plate to supply the power.

The battery plate on product back case is available for two types of batteries. Customers can choose different battery plates according to their needs. (If the customers have no requirement on the battery, the factory assembles Sony V-Mount Plate by default.).

According to the different specification of the battery, the capability is different, and the working time for the monitor will be different.

Higher capability (working time) will be longer.

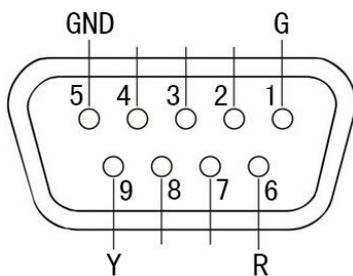
**Without the charging circuit design for the monitor, please remove the battery to charge with the battery charger.**

**Suggestion: Better to remove the battery if don't use this product in a long time.**

## CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

### 1.6 TALLY Indicator Connection



| Indicator Color | Pin Connection |
|-----------------|----------------|
| Green           | 1-5            |
| Red             | 6-5            |
| Yellow          | 9-5            |

## 2. Button Shortcut Operation Instructions

### 2.1 F1~F4 Shortcut Keys Custom Function Settings

F1~F4 are custom shortcut function buttons, users can customize the function of the buttons.

**Operation Mode: short press for shortcut key function operation, long press for entering shortcut key custom setting.**

#### ● Take F1 button for example and explain

Long press F1 button, the screen will display:



Use < or > key to selection:

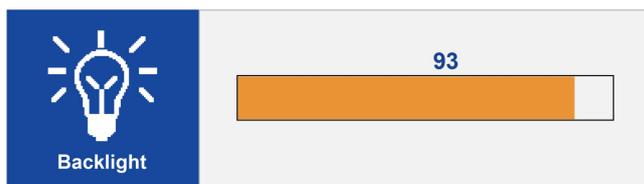
**Freeze Ultra Vivid False Color Check Field 2P LR 2P  
TB 2P PIP 4P Aspect Ratio Disp Rotate Anamorphic  
Zoom Safety Marker Center Marker Grid Marker Mute**

Select one of them, press the **MENU** key to confirm, and then enter the next F button to set.

(You can also set the F shortcut key function in the menu  setting.)

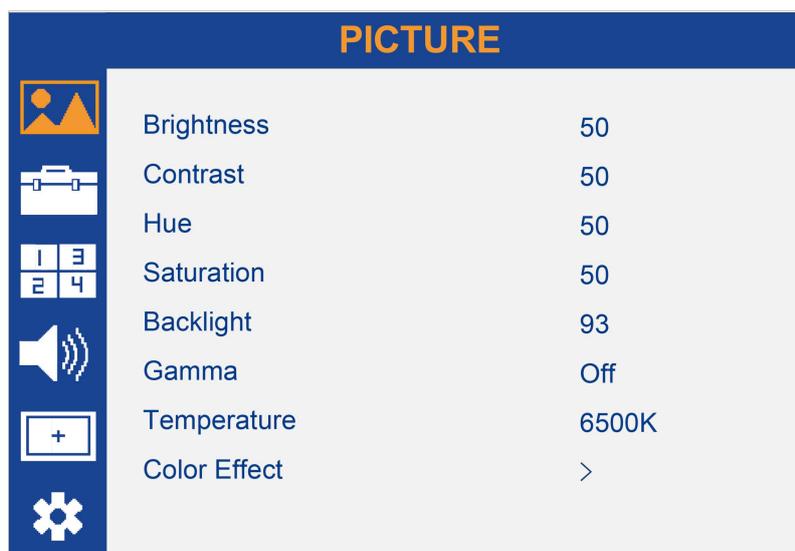
## 2.2 The Quick Adjustment of The Analogs

Press the < or > key to call up the backlight adjustment item:



Then press the **MENU** key to switch the analog quantity: **Backlight, Volume, Brightness, Contrast, Hue, Saturation, Sharpness.** Select one of them, press the </> key to adjust the analog value, and then switch the analog quantity to adjust. After the adjustment, press **EXIT** key to confirm and exit.

### 3. Menu Operation Instructions



- ①. press the **MENU** key to enter the menu bar, use the < or > key to select the menu item, and press the **MENU** key to enter the secondary menu.
- ②. After entering the secondary menu, use the < or > key to select the adjustment item. Press the **MENU** key to confirm and enter the adjustment item, use the < or > key to adjust the parameter value. After adjustment, press the **EXIT** key to confirm and return to the previous menu, and then enter the next step of selection and adjustment.

### 4. Menu Function Instructions



Picture

|                   |              |
|-------------------|--------------|
| <b>Brightness</b> | <b>0~100</b> |
| <b>Contrast</b>   | <b>0~100</b> |
| <b>Hue</b>        | <b>0~100</b> |
| <b>Saturation</b> | <b>0~100</b> |

|                     |  |
|---------------------|--|
| <b>Backlight</b>    | <b>0~100</b>   |
| <b>Gamma</b>        | <b>Off, 1.8, 2.0, 2.2, 2.4</b>   |
| <b>Temperature</b>  | <b>3200K, 5500K, 6500K, 7500K , 9300K, User,</b><br>Under the <b>User</b> , the <b>Red, Green</b> and <b>Blue</b> of the image can be adjusted.<br><b>Red (0~255), Green (0~255), Blue (0~255)</b><br>(Use the <b>&lt;/&gt;</b> key to select the User, and then press the <b>MENU</b> key to enter the <b>User</b> menu.) |
| <b>Color Effect</b> | The <b>Hue (0-100)</b> and <b>Saturation (0-100)</b> of the three primary colors ( <b>Red, Green, Blue</b> ) and three auxiliary colors ( <b>Yellow, Cyan, Magenta</b> ) of the image can be adjusted.<br>(Press the <b>MENU</b> key to enter the <b>Color Effect</b> menu.)   |



### Function

|                     |   |
|---------------------|---|
| <b>Aspect Ratio</b> | <b>Full, 16:9, 4:3, 5:4, 1:1</b>  |
| <b>Check Field</b>  | <b>Off, Red, Green, Blue, Mono</b>  |
| <b>Anamorphic</b>   | <b>Off, x1.33, x1.5, x1.8, x2.0</b>   |
| <b>Ultra Vivid</b>  | <b>Off, On</b><br>By sharpening the edge of images to help peaking focus operation when shooting.   |
| <b>Freeze</b>       | <b>Off, On</b>  |
| <b>Zoom</b>         | <b>Off, Upper Left, Upper Right, Lower Left, Lower Right, Center1, Center2</b><br>( <b>Center 1</b> : magnify 4 times; <b>Center 2</b> : magnify 9 times) |
| <b>Disp Rotate</b>  | <b>0°, 90°, 180°, 270°, H Mirror, V Mirror</b>  |
| <b>False Color</b>  | <b>Off, Mode1, Mode2, Mode3</b>   |



## Display

|                         |  |
|-------------------------|--|
| <b>Display Mode</b>     | <b>1P, 2P LR, 2P TB, 2P PIP, 4P</b>  |
| <b>Display Function</b> | <p>When the Display Mode is <b>2P LR</b> or <b>2P PIP</b>, you can press the <b>MENU</b> key to enter the <b>Display Function</b> menu for parameter adjustment.</p> <ul style="list-style-type: none"><li>● Under the <b>2P LR</b>, you can adjust:<br/><b>LR Ratio (0~4)</b></li><li>● Under <b>2P PIP</b>, you can adjust:<br/><b>PIP Position (RB, MID, LT, RT, LB)</b><br/><b>PIP Transparency (0~10)</b><br/><b>PIP Size (0~10)</b><br/><b>Input Swap (Press MENU key to swap)</b></li></ul> |
| <b>Select Region</b>    | <p>When the display mode is multi-picture mode, you can select one of the pictures to adjust the brightness, contrast, hue, saturation and other parameters of the picture.</p>  |
| <b>Input</b>            | <p>Perform signal input switching on the displayed screen.<br/>(Press the <b>MENU</b> key to enter the <b>Input</b> menu to switch the input source)</p>   |
| <b>Information</b>      | <p>View the corresponding screen input source information.<br/>(Press the <b>MENU</b> key to enter the <b>Information</b> menu to view.)</p>   |



## Audio

|                     |   |
|---------------------|---|
| <b>Volume</b>       | <b>0~100</b>  |
| <b>Mute</b>         | <b>Off, On</b>  |
| <b>Audio Source</b> | <p>In multi-picture mode, you can select the input signal of one picture as audio output.</p> |



## Marker

|                      |  |
|----------------------|--|
| <b>Safety Marker</b> | <b>Off, 80%, 85%, 90%, 93%, 96%, 4:3, 2.39:1, 2.35:1, 1.85:1</b> |
| <b>Center Marker</b> | <b>Off, On</b>   |
| <b>Grid Marker</b>   | <b>Off, 3X3, 6X6, 9x9</b>  |
| <b>Line Width</b>    | <b>0~10</b>  |
| <b>Line Color</b>    | <b>Red, Green, Blue, White</b>                                   |
| <b>Mask</b>          | <b>Half, Black, Off</b>  |



## Setting

|                       |  |
|-----------------------|--|
| <b>Language</b>       | <b>English, 中文, 日本語</b>  |
| <b>F1~F4</b>          | <b>False Color, Check Field, 2P LR, 2P TB, 2P PIP, 4P, Aspect Ratio, Disp Rotate, Anamorphic, Zoom, Safety Marker, Center Marker, Grid Marker, Mute, Freeze, Ultra Vivid</b><br><br>(You can customize the shortcut key function settings for F1~F4 of the key panel.) |
| <b>Transparency</b>   | <b>0~255</b>   |
| <b>OSD H Position</b> | <b>0~100</b>   |
| <b>OSD V Position</b> | <b>0~100</b>   |
| <b>Menu Time</b>      | <b>30~60s</b>  |
| <b>Reset</b>          | Press the <b>MENU</b> button to reset, it will restore the factory default parameter settings.   |

## 5. Support Signal Formats

| Signals     | Signal Support Formats   |
|-------------|--|
| <b>HDMI</b> | HDMI 2.0: 4K 2160P (23.98/24/25/29.97/30/50/59.94/60)<br>HDMI 1.4: 4K 2160P (23.98/24/25/29.97/30)<br>480p/576p<br>720p (60/59.94/50/30/29/25/24/23.98)<br>1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) |
| <b>SDI</b>  | 720p (60/59.94/50/30/29/25/24/23.98)<br>1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF)  |

## 6. Parameters

| Panel Size                 | 15.6"  | 17.3"                | 23.8"                | 28"                  |
|----------------------------|--|----------------------|----------------------|----------------------|
| <b>Resolution</b>          | 3840×2160 pixels   |                      |                      |                      |
| <b>Aspect Ratio</b>        | 16:9   |                      |                      |                      |
| <b>Dot Pitch (mm)</b>      | 0.0897<br>×0.0897  | 0.0995<br>×0.0995    | 0.13725<br>×0.13725  | 0.16×0.16            |
| <b>Brightness</b>          | 300cd/m <sup>2</sup>   | 400cd/m <sup>2</sup> | 310cd/m <sup>2</sup> | 300cd/m <sup>2</sup> |
| <b>Contrast</b>            | 800:1  | 1000:1               | 1000:1               | 1000:1               |
| <b>Viewing Angle</b>       | 170°(H) 170°(V)  | 178°(H) 178°(V)      | 178°(H) 178°(V)      | 170°(H) 160°(V)      |
| <b>Backlight</b>           | LED  |                      |                      |                      |
| <b>Input</b>               | HDMI×4(HDMI2.0x1 support 4K 60HZ;<br>HDMI1.4x3 support 4K 30HZ)<br>SDI, DVI, VGA, Audio(L/R), Tally, USB Upgrade |                      |                      |                      |
| <b>Output</b>              | SDI  |                      |                      |                      |
| <b>Audio</b>               | 3.5mm Headphone Jack, Speaker  |                      |                      |                      |
| <b>Special Function</b>    | TALLY indicator  |                      |                      |                      |
| <b>Working Temperature</b> | -10°C~50°C   |                      |                      |                      |
| <b>Storage Temperature</b> | -20°C~60°C   |                      |                      |                      |
| <b>Input Voltage</b>       | DC 12~24V (XLR)  |                      |                      |                      |
| <b>Power Consumption</b>   | ≤18W   | ≤22W                 | ≤42W                 | ≤45W                 |
| <b>Unit Size (mm)</b>      | 372L×262H  | 425L×285H            | 567L×372H            | 670L×410H            |

|   |             |           |           |           |
|---|-------------|-----------|-----------|-----------|
| <b>(W/O Bracket/Suitcase)</b>                 | ×28.5D (mm) | ×27.3D mm | ×39D (mm) | ×39D (mm) |
| <b>Unit Weight<br/>(W/O Bracket/Suitcase)</b> | 2.03kg      | 2.5kg     | 6.5kg     | 7.9kg     |

## 7. Trouble Shooting

If there is any problem when using the unit, please try following ways to inspect and solve. Please contact us if you still could not solve it or have other problems.

### Without image display

### Trouble shooting

|   |   |
|---|---|
| ◆ Video cable off or connect incorrectly                  | Check the quality of the cable, make sure the correct input interface       |
| ◆ Without video signal input                              | Check the signal source and output interface connect is correct or not      |
| ◆ Monitor is not be powered on                            | Check whether the power is connected, put the power switch to “on” position |
| ◆ Supply voltage instability                              | The power adapter or battery is poor connected with battery plate           |
| ◆ self-contained power supply, polarity connect inversely | Reference "Power input way" reconnect                                       |

### Image/color display abnormal

### Trouble shooting

|   |   |
|---|---|
| ◆ Video cable poor contact                        | Change video cable, try again                           |
| ◆ Video signal interfered by external environment | Move to another environment to try again                |
| ◆ Menu color saturation adjustment closing        | Enter menu to check color, or reset to factory settings |

|  |                                      |
|--|--------------------------------------|
| ◆ Check Field set in mono or black & white | Reset Check Field, back to the color |
| ◆ Image deformation                        | Reset the image aspect ratio         |

### Speaker without sound

### Trouble shooting

|  |   |
|--|---|
| ◆ Audio cable off or connection properly | Confirm connected with the corresponding input port               |
| ◆ Volume adjustment was closed           | Reset the volume control and adjust to a proper position          |
| ◆ HDMI cable poor connected              | Check the quality of cable, or change cable and have a try        |
| ◆ No sound after switch video signal     | In VGA and DVI state, it needs to input audio signal synchronize. |

#### ■ Remark:

- ★ If there are still other problems, please contact with our related technical persons.
- ★ As we are improving our products features, so if there are changes without prior notice.