

High Definition Color LCD Monitor

21.5" High Definition Monitor



User manual

Dear users:

Thank you for purchasing our photography, broadcast HD-SDI LCD Monitor kit. This product employs digital signal processing circuit and professional TFT LCD screen. It's high brightness, low power consumption, stable performance and emits no radiation advantages, strong compatibility, adjustable color temperature control. Advanced features include Screen marker, CAMERA mode, Image magnification, Image flip and change, Monochrome mode etc. It is an ideal portable light weight frame supporting the monitor. The monitor is not only with HDMI, COMPONENT(YPbPr), composite Video, Audio signals input, also with HD-SDI input & output, to meet different customers' needs.

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

CAUTION

1. Please use the adapter attached in the accessory.
2. Do not expose this product to direct sunlight, heat or humid conditions
3. Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture.
4. Please avoid heavy impact or drop on the ground.
5. Do not use chemical solutions to clean this unit. Please simply wipe with a clean soft cloth to keep the brightness of the surface.
6. Without adjustable component in the unit, please do not take apart or repair the unit by yourself, to avoid damage the product.

Product feature:

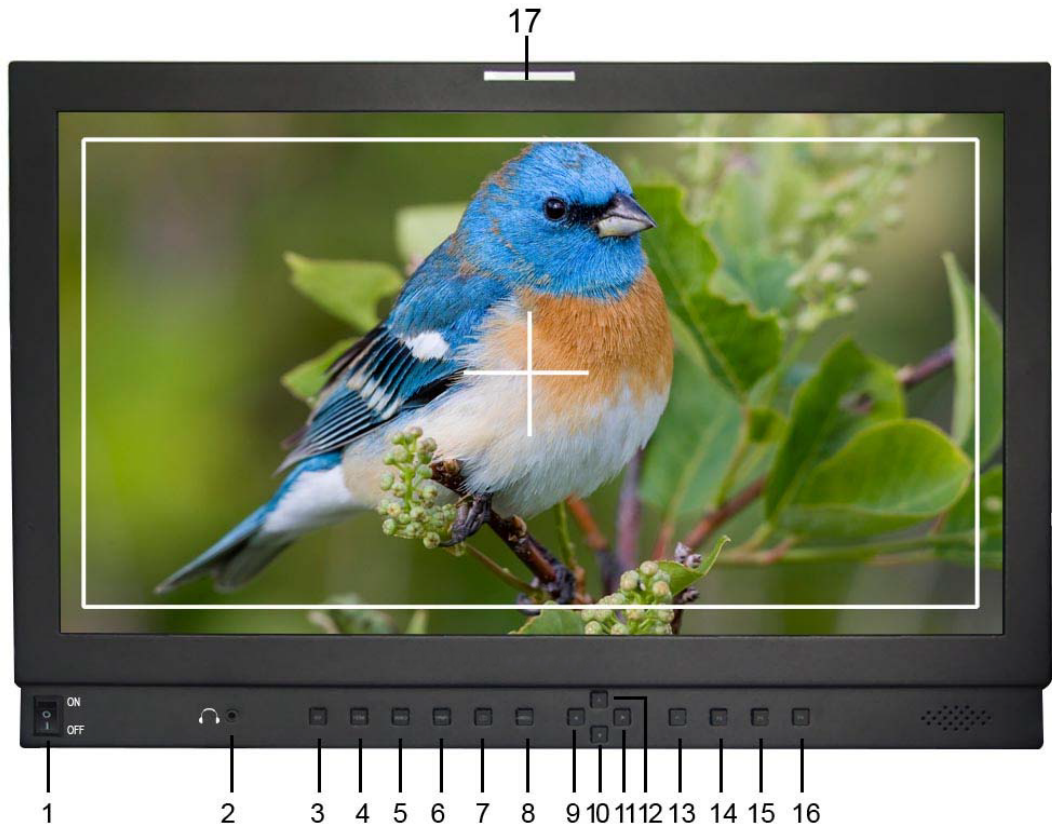
- ◆ **5D II Camera Modes**
- ◆ **Screen Marker: off, 96%, 93%, 90%, 85%, 80%**
- ◆ **Screen Center Marker (cross mark) display setting**
- ◆ **Scan mode: (standard, under scan, over scan)**
(1080I, 1080P, 50/60HZ NO use)
- ◆ **Monochrome display: color, black and white, red,
green, blue, Closed**
- ◆ **Image magnification/scaling, image flip function**
(1080I, 1080P, 50/60HZ NO use)
- ◆ **H/V delay**
- ◆ **Picture in picture (PIP) function**
- ◆ **Aspect ratio: panoramic, full screen, point to point,
Zoom 1, 4:3, 16:9, 14:9 option**
- ◆ **Scan Mode: standard, under scan, over scan**
- ◆ **Display pixel and the pixel point to point display**
- ◆ **Panel Button (F1 ~ F4) function custom setting**
- ◆ **LED backlight, Image display brighter, screen does not
flicker**
- ◆ **Front panel stereo monitors earphone output**
- ◆ **Multiple signal output port, flexible use**

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1. Product description

A. Front panel view



1. **Power ON/OFF:** —: Power connect, ○: power cut
2. 🎧: Earphone jack
3. **SDI:** Digital component serial signal input selection button
4. **HDMI:** HDMI HD signal input selection button
5. **VIDEO:** Composite video signal input selection button
6. **YPbPr:** YPbPr Color difference signal input selection button
7. 📷: Camera mode
8. **MENU:** To activate or close OSD (on-screen display) menu
9. ⏮: Volume down, in OSD menu for left adjustment, function confirm or decrease the value of analog on the menu
10. ⏭: Down adjustment button, menu item selection button,

press the button directly, which enables the movable picture still in the picture.

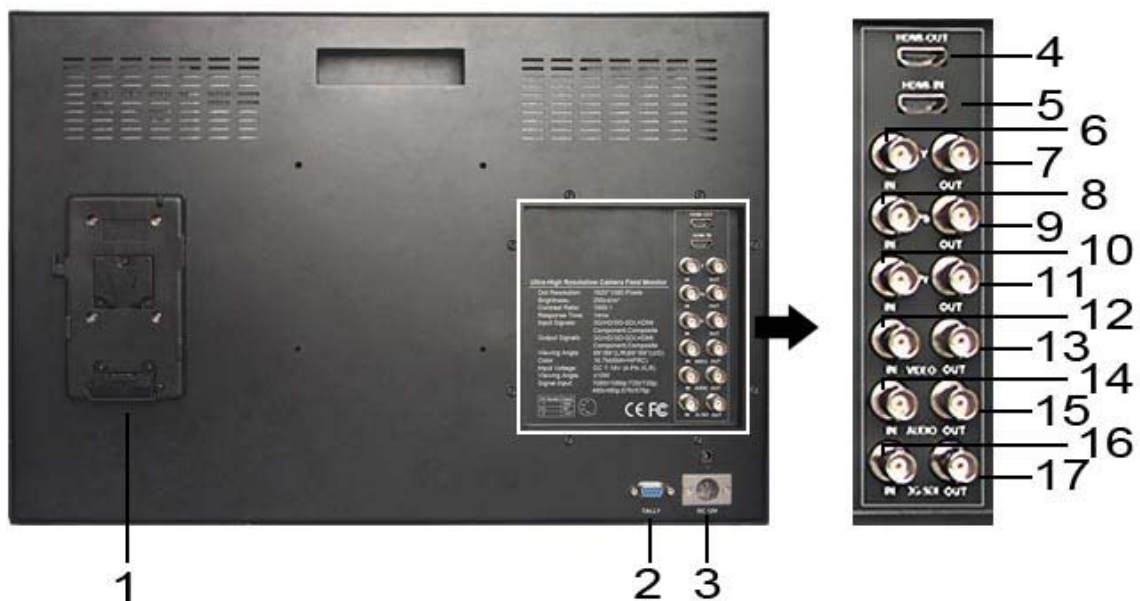
11. ➤: Volume up, in OSD menu for right adjustment, function Confirm or increase the value of analog on the menu

12. ▲: Up adjustment button, menu item selection button

13 ~ 16. F1 ~ F4: Custom button, can select (Screen marker, Monochrome display, point to point, scanning mode, center marker, segmentation, magnified image) one of them as definition function

17. TALLY (indicator)

B. Rear panel view



1. Battery Plate: (According to the users' requirements

Selection)-see attached instruction

2. Tally (indicator) signal input

3. 4-pin XLR DC power input

- 4. HDMI OUT:** HDMI (High Definition Multimedia Interface)
signal output
- 5. HDMI IN:** HDMI (High Definition Multimedia Interface)
Signal input
- 6. Y IN:** Y signal input
- 7. Y OUT:** Y signal output
- 8. Pb IN:** Pb signal input
- 9. Pb OUT:** Pb signal output
- 10. Pr IN:** Pr signal input
- 11. Pr OUT:** Pr signal output
- 12. VIDEO IN:** Composite Video signal input
- 13. VIDEO OUT:** Composite video signal output
- 14. AUDIO L IN:** Audio signal input
- 15. AUDIO R IN:** Audio signal output
- 16. HD-SDI IN:** Digital component serial interface signal
Input (option)
- 17. 3G-SDI OUT:** Digital component serial interface signal
Output (option)

C. Battery plates:



Panasonic Anton Bauer



Sony V-Mount Plate

According to the different requirements of battery for the customers, attached different battery plates. NO requirements, the

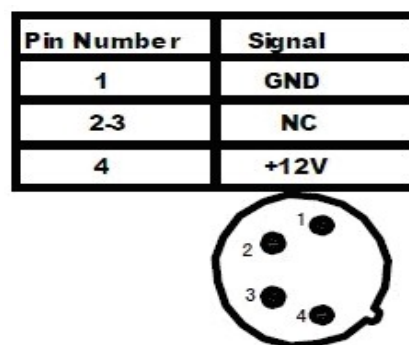
factory defaults assembly **Sony V-Mount** battery plate.

Remark: Different specifications of the battery, capability is different. The working time for the monitor will be different. Higher capability (working time) will be longer.

D. Power input way

The monitor can work with power through 4 pin XLR (XLR) interface or battery plate install battery-powered, when the 4 pin XLR (XLR) interface and battery plate both with power, the monitor automatically selected by the 4 pin XLR (XLR) interface power supply.

D-1. 4 pin XLR (XLR) interface power supply. The unit working voltage range of 10 ~ 24V DC voltage. XLR polarity power input ports as shown below, please note that the polarity of the input power, otherwise it may damage monitor! When customer self optional power adapter, you should pay attention to choose the output voltage of DC 10 ~ 24V, output power > 30W power adapter.



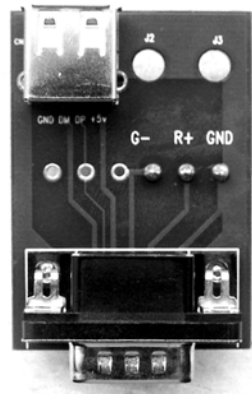
D-2. Another option of power source is using batteries. The product back case including battery plate is available for two types of batteries. Customers can choose different battery plates according to their needs.(NO requirements, the factory defaults assembly **V-Mount** battery plate)

Different specifications of the battery, capability is different.
The working time for the monitor will be different. Higher capability (working time) will be longer.

Without design charging circuit for the monitor, please remove the battery to the battery charger for charge. Suggestion: Better remove the battery for long-term NO use this product.

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

E. Tally use and connect



TALLY Kit

To use random TALLY kit connect TALLY signal line from the switching station as shown

Connection method:

E-1. Active connection: GND and G with 0-5V voltage wire shorted to ground access

When the voltage is 0.3-2.7V, green TALLY lamp lights

When the voltage is 2.8-5.5V, red TALLY lamp flashes

E-2. Passive connection: GND, R +, G all shorted red TALLY lamp flashes

- **please note the connection method**

2. Button operation instruction

SDI → Digital component serial signal input selection

HDMI → High Definition Multimedia Digital Signal input selection

VIDEO → Composite video signal input selection

Ypbpr → Color difference interface video signal input selection

 → Photography mode. Using 5D2 or 550D and other similar camera, press the button , the screen image disappears after about 6-8 seconds, will return to full screen display image, then watch from framing of the screen image to the recording when there is no time difference, image NO distortion, NO black, NO delay, perfect without distortion

MENU → Menu button

◀ → Volume up, in OSD menu for left adjustment, function confirm or increase the value of analog on the menu

▶ → Volume down, in OSD menu for right adjustment, function confirm or decrease the value of analog on the menu

▲ → Enter menu operation for menu option and submenu up Selection

▼ → Image still and menu operation down selection button. No Enter menu operation, press this button directly enables the Movable picture still in the picture. Enter menu operation as

menu option and submenu down selection

F1→ **Custom button**, users can select(Screen marker, Monochrome display, Point to Point, Scanning Mode, Center Marker, Segmentation, Magnification) one of them as Definition function please set the system into menu.

F2 → Custom button, see F1

F3 → Custom button, see F1

F4 → Custom button, see F1

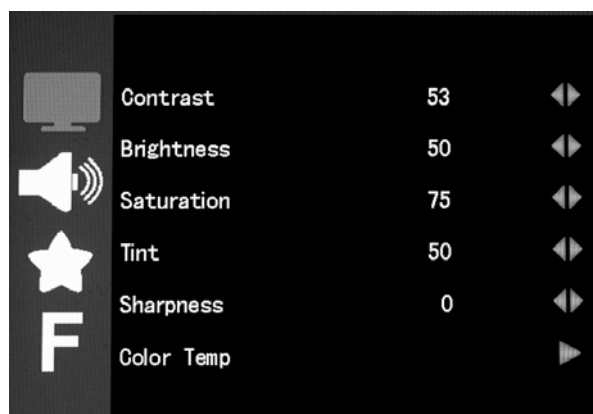
3. Menu function introduction

In the operating status, press button "**MENU**", then enter into OSD mode. Press the unit button "**▲**" or "**▼**" to select the options which you need:  (display result)  (sound)  (system setting) **F** (scan position adjust), after select the button you need, press "**◀**" or "**▶**" on the unit to confirm, if need to exit OSD menu, repress button "**MENU**".

●Display result setting (this setting has 3 pages menu)

Press "**MENU**" key, pop up OSD menu as below, "**▲**" or "**▼**" to select , press "**◀**" or "**▶**" to confirm, press "**▲**" or "**▼**" to select the adjustment, then use "**◀**" or "**▶**" to adjust or select the adjustment. Press "**MENU**" to exit.

◆ Menu page 1 picture



Contrast: To adjust the brightest and darkest ratio of the image

Brightness: To adjust the image's brightness

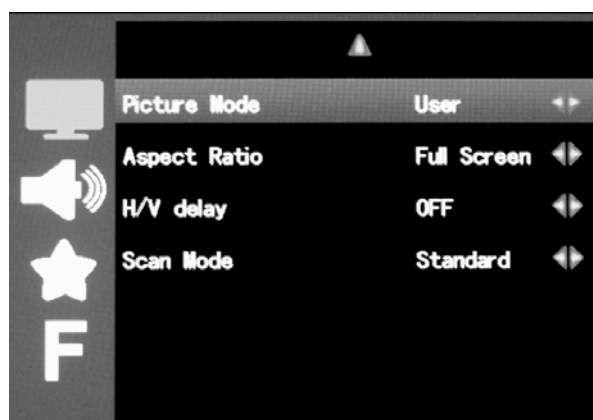
Saturation: To adjust the saturation

Tint: Adjustment of the NTSC signal in the composite
Video mode, the other mode is invalid

Sharpness: To adjust the depth to the image

Color Temp: Use the adjustment the color temperature can
Be Pre-set (user, 6500K, 7300K, 9300K)

◆ Menu page 2 picture



Picture Mode: The image brightness, standard, soft, the user (the contrast, brightness, and color settings) effect settings

Aspect Ratio: Full screen display, panoramic, 4:3, 16:9, 14:9 mode selection

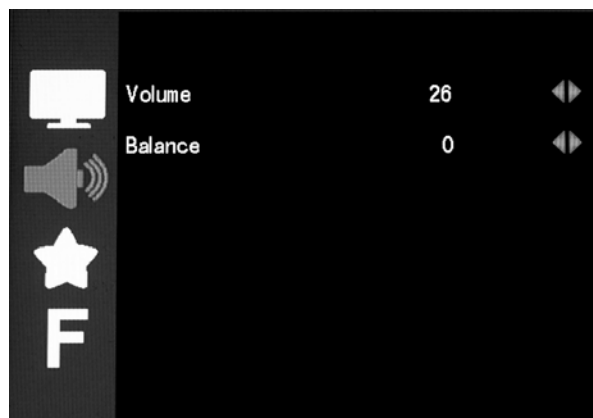
H/V delay: H/V delay optional switch

Scan Mode: To deal with special image (standard, over scan, under scan)

No use under 1080I & 1080P 50/60HZ

● Sound setting

Press "**MENU**" key, pop up OSD menu as below, "▲" or "▼" to select , press "◀" or "▶" to confirm, press "▲" or "▼" to select the adjustment, then use "◀" or "▶" to adjust or select the adjustment. Press "**MENU**" to exit.



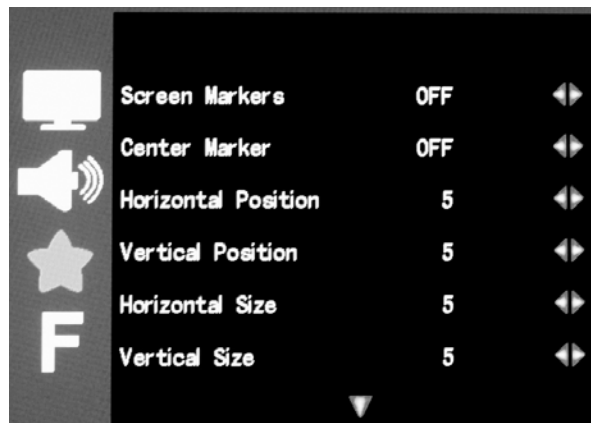
Volume: To adjust the volume

Balance: To adjust 2-channel (L&R)

● System setting (This setting has 3 pages menu)

Press "**MENU**" key, pop up OSD menu as below, "▲" or "▼" to select , press "◀" or "▶" to confirm, press "▲" or "▼" to select the adjustment, then use "◀" or "▶" to adjust or select the adjustment. Press "**MENU**" to exit.

◆ Menu page 1 picture



Screen Marker: Picture framing marker selection frame
(off, 96%, 93%, 90%, 85%, 80%)

Center Marker: Screen center marker (cross marker) display setting

Horizontal Position: To adjust the image display (L/R)

Vertical Position: To adjust the image display (U/D)

Horizontal Size: To adjust the image L/R stretch

Vertical Size: To adjust the image U/D stretch

◆ Menu page 2 picture



Check Field: Color, black and white / monochrome switching, to switch image color, black and white, monochrome (red, green, blue)

5D2 Camera: Canon 5D II or similar camera when shooting, image

no deformation, no black, no delay, perfect without distortion

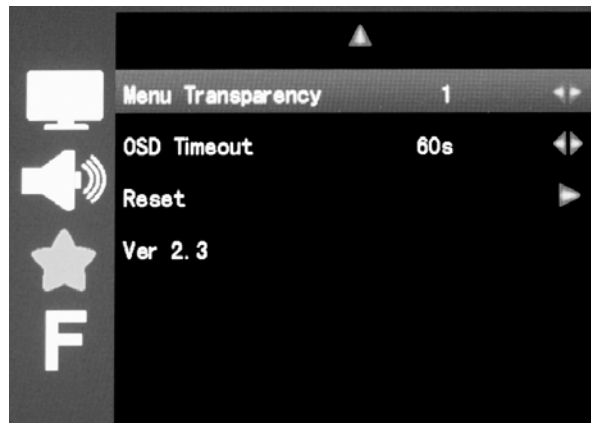
PIP: To display two inputs signal picture at the same time,
Can adjust picture position, size, picture interchange,
double picture, and picture out picture mode

Language: Chinese, English

S D I: HD SDI switch option(for with SDI input port modes,
Other modes select close)

Effect: Menu display effect

◆ Menu page 3 picture



Menu Transparency: To select the OSD display effect

OSD Timeout: To control the automatic disappearance time after
menu pop up

Reset: On system parameters and settings recover factory
Settings

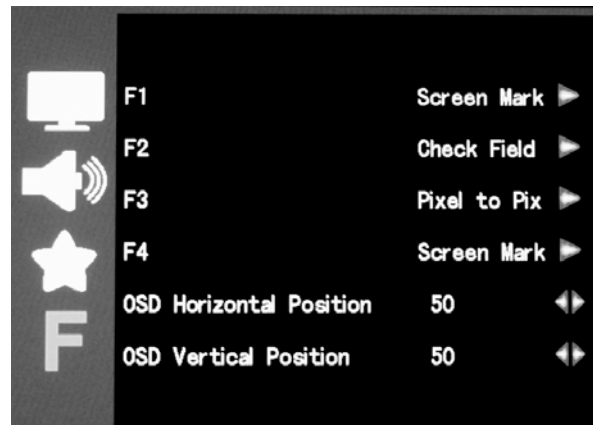
Ver. 2.3: Menu software version number

● **F** Custom button and scan setting (This setting has 2 pages menu)

Press "**MENU**" key, pop up OSD menu as below, "**▲**" or "**▼**" to
select **F**, press "**◀**" or "**▶**" to confirm, press "**▲**" or "**▼**" to

select the adjustment, then use " ◀ " or " ▶ " to adjust or select the adjustment. Press "MENU" to exit.

◆ Menu page 1 picture



F1: The corresponding panel button F1 custom button function definition of choice setting(Screen marker, monochrome display, point to point, scanning mode, center marker, segmentation, magnified image). The user can enter submenu select one item, press the "MENU" is identified as the button function.

F2: The corresponding panel button F2 custom button function definition of choice setting

F3: The corresponding panel button F3 custom button function definition of choice setting

F4: The corresponding panel button F4 custom button function definition of choice setting

OSD Horizontal Position: To adjust the OSD Position (L/R)

OSD Vertical Position: To adjust the OSD Position (U/D)

4. Signal format form

Signal format form	
Video signal	Support signal format
Composite Video	PAL/NTSC auto recognize
Component (Y/Pb/Pr)	1080/ 50i/ 60i/ 50p/ 60p; 720/ 50p, 720/ 60p ; 480i、480p; 576i、576p;
HDMI	1080/ 24i/ 24p/ 25i/25p/ 30i /30p/ 50i/ 50p/ 60i/ 60p; 720/ 50p, 720/ 60p ; 480i、480p; 576i、576p;
SDI(optional)	1080/ 24i /24p/ 25i/25p/ 30i /30p/ 50i/ 50p/ 60i/ 60p; 720/ 50p, 720/ 60p ; 480i、480p; 576i、576p;

5. Accessories

User manual	1pcs
Power adapter	1pcs
V-Mount Plate terry plate(other battery plates are available)	1pcs
TALLY Kit	1pcs
Jib crane bracket	1pcs
HDMI to Mini HDMI cable	1pcs

6. Parameters

Panel size	21.5 " TFT LCD
Pixel	1920 (H) ×RGB ×1080 (V) pixels
Dot pitch	0.08265×RGB (H) ×0.2148 (V) mm
Brightness	250 cd/m ²
Contrast ratio	1000:1
Response time	14ms
Viewing angle	178°(L/R) / 178°(U/D)
Display ratio	Full screen display, panoramic, 4:3, 16:9, 14:9
LED backlight	LED
Input voltage	DC 10 ~ 24 V
Input signal	(3G-SDI, HD-SDI, SD-SDI, option) HDMI, Ypbpr, Video, Audio
Output signal	(3G-SDI, HD-SDI, SD-SDI, option) HDMI; Ypbpr; Video; EAR; Audio
Power consumption	≤ 13.0 W
Special function	TALLY indicator
Working temperature	— 10 ~ 55℃
Storage temperature	— 20 ~ 65℃
Unit size (mm)	525 L × 345W × 52 H (NO bracket) 554 L × 390W × 100 H (with bracket)
Unit weight	≈8300g (with bracket) ≈6500g (NO bracket)

7. Trouble shooting

If there is any problem using the unit? You can try following ways to inspect and solve

• 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 the power whether connected, put the power switch to “on” position
◆ Supply voltage instability	The power adapter or battery is poor connected with battery plate
◆ The power use is self-made, 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 from external environment	Move to another environment to try again
◆ Video input signal amplitude too low	Check signal source video output, or change signal source have a try.
◆ Menu color saturation adjustment closing	Enter menu check color, or reset to factory settings
◆ B/W set in monochrome or black & white	Press the B/W button, back to the color
◆ Image deformation	Reset the ratio

• Speaker without sound

Trouble shooting

◆ Audio cable off or connect improperly	Confirm connected with the corresponding input end
◆ Volume adjustment was closed	Reset the volume control is adjusted to a proper position

◆HDMI cable poor connected	Check the quality of cable, or change cable have a try
◆ No sound after switch video signal	This monitor with audio signal only in audio input and HDMI

■Remark:

If there are still other problems, please contact with our related deals.

If there are changes without prior notice.