User Guide

IMPORTANT SAFETY INSTRUCTIONS

➢ Please read User Guide before using this product.

➢ Please keep User Guide for future reference.

➢ Please read the cautions to prevent possible danger and loss of property.

FEATURES

➢ Versatile 4K/QFHD Input Capability

This monitor is equipped with standard 12G-SDI input interface(x2), 3G/HD-SDI input interface(x2) and support 4K 2-sample interleave signals and 4K square division signals.

➢ Supporting 12G/6G-SDI(4K) 2 Channel, 3G/HD-SDI (Level A/B) 2 Channel.

➢ Quad Link Square Division.

➢ Quad Link 2 Sample Interleave (2SI)

➢ Ultra HD 4K screens containing 8.3 million pixel (3840×2160), so the resolution is four times that of Full HD.

➢ Image flip offers great convenience for user's user to place the monitor with various mounting methods under different conditions. Users can view the monitor normally no matter what mounting angles.
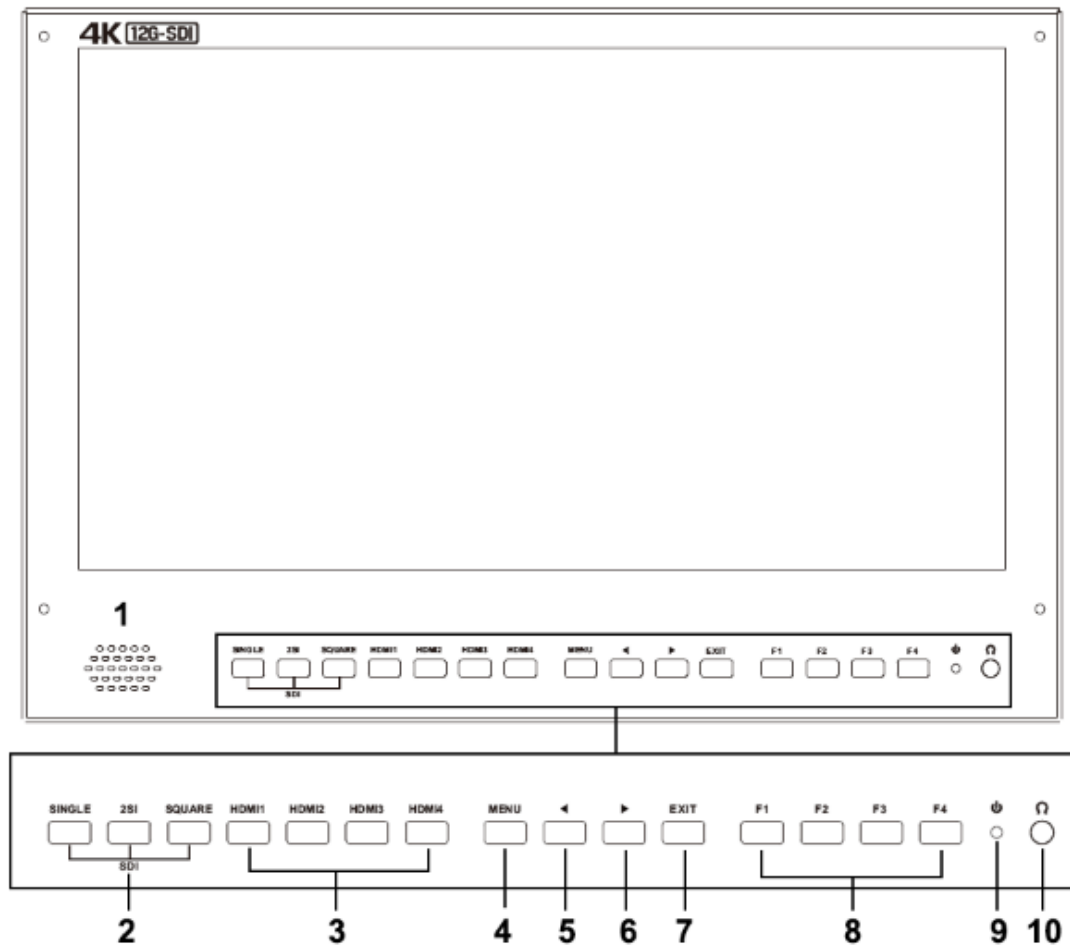
CAUTIONS

➢ Please do not place the display screen towards the ground.

➢ Please avoid heavy impact or drop onto the ground.

➢ Please do NOT use chemical solutions to clean this product. Please wipe with a clean soft cloth to maintain the brightness of the surface.

➢ Please do not block any vent hole.

➢ Please follow the instructions and trouble-shootings to adjust the product. Other improper adjustment may result in damage. Any further adjustment must be performed or conducted by a qualified technician.

➢ Please unplug the power and remove the battery if long-term no-use, or thunder weather.

Contents

1、 PRODUCT DESCRIPTION

Front

1. **Speaker**

2. **SDI buttons / lamp**

   Press to monitor the signal input to each connector.

   [SINGLE] Button/Lamp

   - Press the button to select SDI input for one channel.

   - Mode changes in the order of [12G SDI 1] , [12G SDI 2] , [3G SDI 3] , [3G SDI 4].

   [2SI] Button/Lamp

-Press the button to select 2-SAMPLE Interleave SDI input signal through two or four SDI input connectors.

- Mode changes in the order of [Dual-Link 2SI], [Quad-Link 2SI].

[SQUARE] Button/Lamp

- Press the button to select [Quad-Link Square Division] mode.

3. **HDMI 1 ~ 4 buttons / lamp**

Press the button to select HDMI input.

4. **MENU/RETURN button**

Activates and deactivates the display of the Main Menu.

Press to enter option in the menu.

When the on-screen menu is not displayed, if this button is pressed the main menu is display.

When the menu is displayed, press the button to return to the previous menu.

5. **◄ button**

Select option in the menu.

Decrease the option value.

Before enter the menu, single press to activate volume, press again to switch among of volume, brightness, contrast, color, hue, sharpness and backlight.

6. **► button**

Select option in the menu.

Increase the option value.

7. **EXIT**

Back or exit.

8. **F1~F4 User definable buttons**

Press to adjust or turn on/off the assigned function.

The following functions are assigned at the factory.

F1：Display Mode   F2：Display Rotate

F3：Safety Marker   F4：Aspect
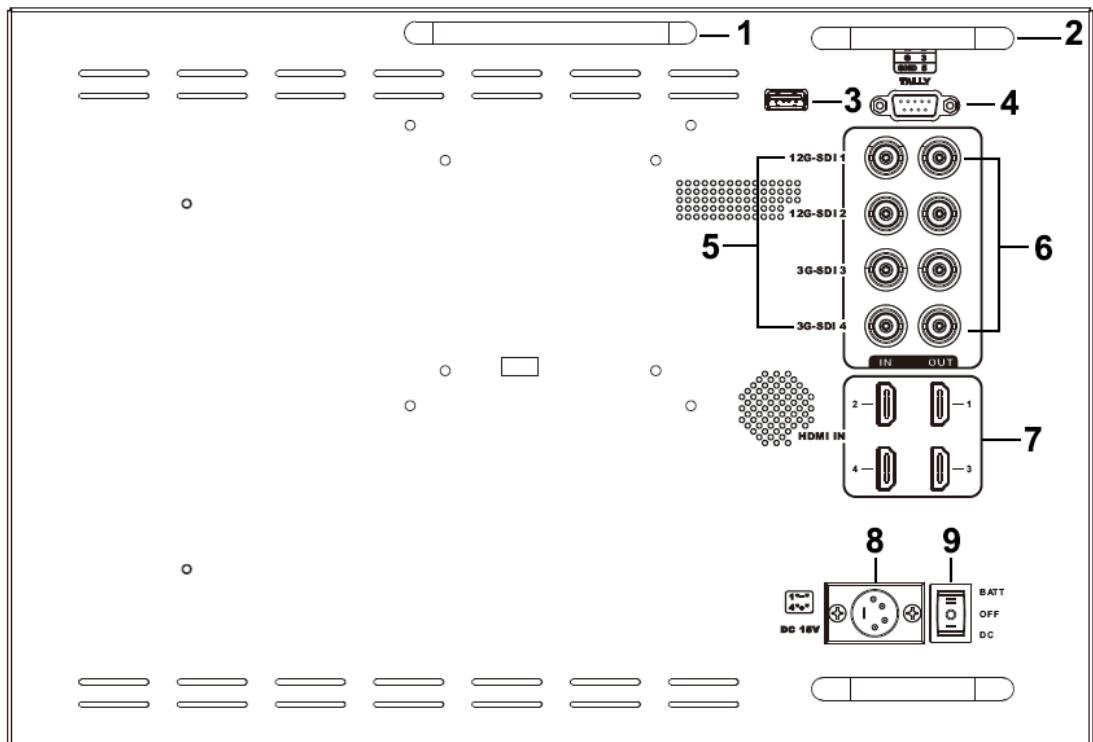
   (functions can be customized by long keep pressing any one of the

   4 buttons)

9．**Power indicating light**

Power on， the indicator flashes in green.

10．**Earphone jack**

Back

1. Handle

2. Connector protector

   Preventing connectors from damage.

3. USB port (Only for program upgrades, do NOT use if non-professionals).

4. TALLY port

5. SDI input connectors (BNC)

   Input connectors for SDI signals. For details, see "Connecting the SDI Signals" (page 11)

6. SDI output connectors (BNC)

   Output connector for SDI signals.

   Each connector outputs the signal which is input to the corresponding SDI IN connector.

   Note - Output is activated only when the power is on. Output is not activated in standby mode.

7. HDMI input connectors。

   Input connectors for HDMI signals.

   HDMI 1: HDMI2.0, support 4K 60Hz

   HDMI 2, HDMI 3&**HDMI 4**: HDMI1.4, support 4K 30Hz

   For an HDMI cable, High Speed HDMI Cable with the cable type logo or HDMI 2.0 Cable is recommended.

8. DC IN (XLR) terminal

   Connects the DC power supply to the monitor.

	Pin number	Signal
	①	GND
	②③	……....
	④	+15V

9. Power switch

‖ is battery power; 〇 is power off; | is DC power

2. SUN SHADE INSTALLATION

1. Put the sun shade on the suitcase, and match the magnets on

both sides.

2. As shown below after finished.

3. MENU SETTING

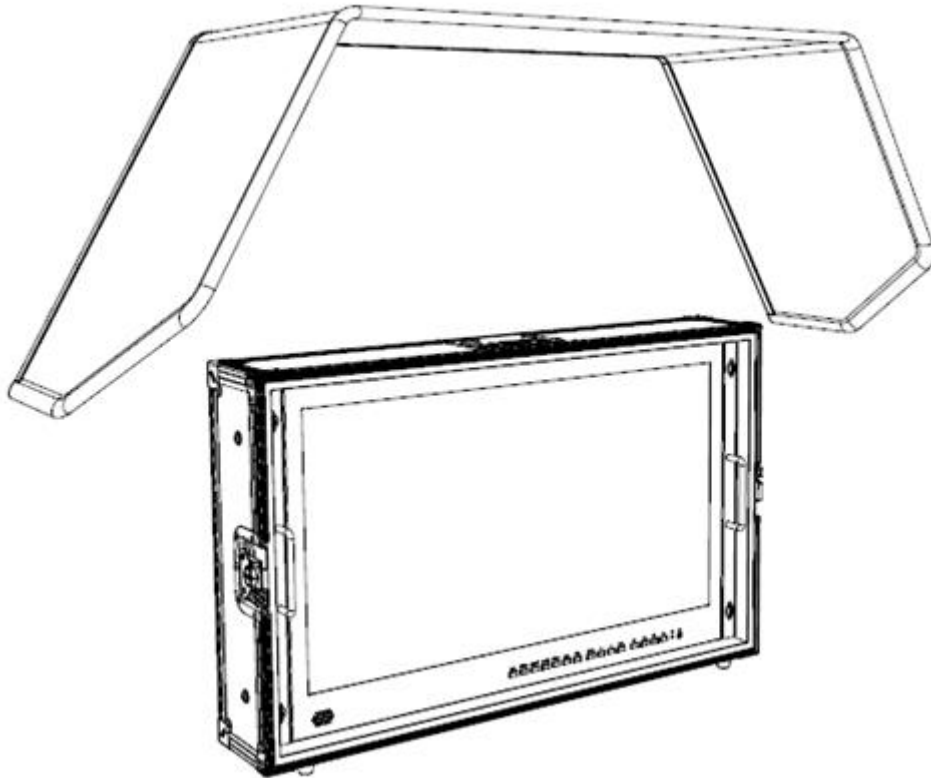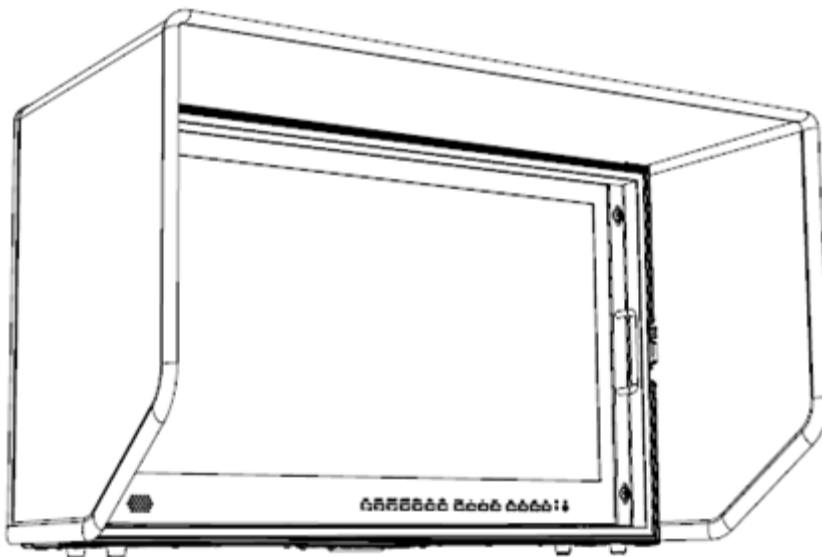**Please check whether the device is connected well or not.**

3-1. F1~F4 user definable shortcut buttons

Long keep pressing any one of the 4 buttons for 3-5 seconds to activate shortcut menu setting. Option selected will be highlighted as white, option will be highlighted as yellow, unavailable option will be highlighted as gray.

Select option via "◄/►" buttons.

Then press "MENU" button to confirm to set as default option.

Functions can be customized to meet user's needs: center marker, safety marker, aspect marker, aspect, underscan, check field, freeze, pixel to pixel, peaking, false color, display mode, disp rotate, disp mirror.

Default options:

F1：Display Mode   F2：Display Rotate

F3：Safety Marker   F4：Aspect

3-2. ◄ / ► Buttons Operation

Under non menu screen, press ◄/► buttons to activate volume bar,

Use "◄/►" buttons to select the desired option.

Press the "MENU" button to select Volume, Brightness,

Contrast, Saturation, Hue, Sharpness, Backlight, Menu and Exit.

3-3. MENU Operation

When power on, press "MENU" on the device, The menu of function setting will display on the screen.

Press ◄ / ► button to choose menu；

Then press "MENU" button to confirm；

Press "EXIT" button to return / exit menu.

Picture	Brightness	0~100
	Contrast	0~100
	Saturation	0~100
	Hue	0~100
	Sharpness	0~4
	Temperature	9300，7500，6500，5800，User
	Backlight	0~100
Function	Center Marker	ON, OFF
	Safety Marker	OFF，95%，93%，90%，88%，85%，80%
	Aspect Marker	Full，17:9, 16:9, 4:3，1.85:1，2.35:1
	Aspect	Full，17:9, 16:9, 4:3，1.85:1，2.35:1
	Underscan	ON, OFF
	Pixel To Pixel	ON, OFF
	Check Filed	OFF, Red, Green, Blue
	Freeze Input	ON, OFF
	Peaking	ON, OFF

	False Color	ON, OFF	
Display Mode	1P，2P LR，2P TB，2P PIP，4P		
Display Setting	Display Rotate	0°，90°，180°，270°	Available when single display.
	Display Mirror	OFF, L/R, U/D	Available when dual display on
Select Region	Menu setting to region selected according to users' needs.		
Input	SDI 1, SDI 2 , SDI 3 , SDI 4, 2SI, SQUARE, HDMI 1, HDMI 2, HDMI 3, HDMI 4		
Audio	Volume	0~100	
	Audio CH.	CH0&CH1, CH2&CH3, CH4&CH5, CH6&CH7, CH8&CH9, CH10&CH11, CH12&CH13, CH14&CH15 (HDMI mode unavailable)	
System	Reset	Press to confirm after selected.	
	Menu Time	5~60s	
	OSD H Position	0~100 (To set menu display area)	
	OSD V Position	0~100 (To set menu display area)	
	Language	English, Chinese	
	Transparency	0~255 (To set menu transparency)	
	OSD Rotate	0°，90°，270°	
	Border Width	0~10	
	Border Color	R, G, B, W	
Info	To display current information.		

4、 Connecting the SDI signals

Single Link 12G/6G/3G/HD/SD-SDI, Dual-Link 3G-SDI, and Quad-Link 3G/HD-SDI signals can be input to the SDI IN connectors of this monitor.

Up to 2-channel Single Link 12G-SDI signals, up to 4-channel 3G/HD-SDI signals, 1-channel Quad-Link 3G-SDI signals can be input. Use the appropriate input connectors depending on the input signal, referring to the tables below.

12G –SDI Single-Link Signal

Connector	Input signal
SDI 1	12G SDI
SDI 2	12G SDI

3G-SDI Dual-Link signal

* 2-sample interleave signals

Connector	Input signal
SDI 1	3G SDI Link 1
SDI 2	3G SDI Link 2

*Square division signals

Connector	Input signal
SDI 1	Sub-image 1(upper left screen)
	Sub-image 2(lower left screen)
SDI 2	Sub-image 3(upper right screen)
	Sub-image 4(lower right screen)

Quad-Link 3G/HD –SDI Signal

* 2-sample interleave signals

Connector	Input signal
SDI 1	3G SDI Link1
SDI 2	3G SDI Link2
SDI 3	3G SDI Link3
SDI 4	3G SDI Link4

*Square division signals

Connector	Input signal
SDI 1	Sub-image 1(upper left screen)
SDI 2	Sub-image 2(lower left screen)
SDI 3	Sub-image 3(upper right screen)
SDI 4	Sub-image 4(lower right screen)

I

Image of square division signals

Sub-image1 (upper left screen)	Sub-image 3 (upper right screen)
Sub-image 2 (lower left screen)	Sub-image 4 (lower right screen)

5、 Available Signal Formats

This monitor is applicable to the following signal formats

SD-SDI

Signal system	Signal format
525i	4:2:2 YCbCr 10bits
625i	4:2:2 YCbCr 10bits

HD-SDI

Signal system	Signal format
1280×720 (23.98/24/25/29.97/30/50/59.94/60p)	4:2:2 YCbCr 10bits
1920×1080 / 2048×1080 (50/59.94/60i) (23.98/29.97/24/25/30p) (23.98/29.97/24/25/30Psf)	4:2:2 YCbCr 10bits

3G-SDI

Signal system	Signal format	
1920×1080/2048×1080 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits	3G-LevelA / DL 3G-Level B
1920×1080/2048×1080 (50/59.94/60i) (23.98/24/25/29.97/30p) (23.98/24/25/29.97/30Psf)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits	3G-LevelA / DL 3G-Level B
1280×720 (23.98/24/25/29.97/30/50/59.94/60p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits	3G-LevelA / DL 3G-Level B
1920×1080/2048×1080 (50/59.94/60i) (23.98/24/25/29.97/30p) (23.98/24/25/29.97/30Psf)	4:2:2 YCbCr 10bits	DS 3G-Level B
1280×720 (23.98/24/25/29.97/30P	4:2:2 YCbCr 10bits	DS 3G-Level B

6G-SDI Single Link

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
1920×1080/2048×1080 (47.95/48/50/59.94/60p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

6G-SDI Dual Link

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

12G-SDI Single Link

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

HD-SDI Quad Link

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

3G-SDI Dual Link (2SI)

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

3G-SDI Dual Link (Square Division)

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

3G-SDI Quad Link (Square Division)

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

3G-SDI Quad Link (2SI)

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

6、 ACCESSORIES

1. Folding sun shade cover   1 piece

2. Carry-on suitcase   1 piece

3. 15V DC adapter   1 piece

4. Adapter fixing belt   2 pieces

5. Battery plate bracket   1 piece

6. V-mount or Anton Bauer mounts   1 piece

7. Base bracket   1 pair

8. TALLY connector (in bulk)   1 piece

9. Manual   1 copy

10. Acrylic screen protector   1 piece(optional)

7、 PARAMETERS

Display Screen	15.6" 8bit IPS
Physical Resolution	3840×2160
Aspect Ratio	16：9
Brightness	330cd/㎡
Contrast	1000: 1
Viewing Angle	176°/ 176°(H/V)
Input Voltage	DC 12~24V（XLR）
Input Signal	3G-SDI, 12G-SDI, HDMI and TALLY
Output Signal	3G-SDI loop, 12G-SDI
Power Consumption	≤34W
Operating Temperature	0℃~60℃
Storage Temperature	-20℃~60℃
Dimension（LWD）	389×267×38mm
Weight	3.2kg/ 12 kg（with case）

8、 TROUBLE SHOOTING

1. Only black-and-white display.

   Check whether the color saturation is properly setup or not.

2. Power on but no pictures.

   Check whether the cables of HDMI, VGA， DVI and 3G-SDI are correctly connected or not. Please use the standard power adapter coming with the product package. Improper power input may cause damage.

3. Wrong or abnormal colors.

   Check whether the cables are correctly and properly connected or not. Broken or loose pins of the cables may cause a bad connection.

4. When on the picture shows size error.

   Press "MENU → Function → Underscan" to zoom in/out pictures automatically when receiving HDMI signals

5. Other problems.

   Please press "MENU" button and choose "MENU→System→ Reset →confirm"

6. According to the ISP, the machine cannot function properly.

   ISP for program upgrades, non-professionals do not use. Please reboot your device if press accidentally!

7. No Sound.

   Press HDMI button if no sound; if still unavailable, please contact the technician.

8. No signal displayed when connecting with HDMI 1

   Please long press HDMI 1 button for 3-5 seconds to activate HDMI signal.

Note: due to constant effort to improve products and product features, specifications may change without notice.