LCD Monitor User’s Manual

V1.0.0

Table of Contents

1 Security and Maintenance 3
1.1 Product Security Warning 3
1.2 Environment 3
1.3 Usage 3
2 Accessories Inspection 5
3 Product Introduction 6
3.1 Port 6
3.2 Remote Control 8
3.2.1 Button 8
3.2.2 Shortcut Operation 8
4 Parameter Setup 0
4.1 Video 1/Video 2 0
4.1.1 Picture Setup 0
4.1.2 System 3
4.1.3 Advance 7
4.1.4 Sound* (Optional) 8
4.1.5 PIP 11
4.1.6 Source 14
4.2 PC 15
4.2.1 Picture 15
4.2.2 System 19
4.2.3 Advance 19
4.2.4 Sound* (Optional) 19
4.2.5 PIP 19
4.2.6 Geometry 19
4.2.7 Signal 20
4.3 HDMI/DVI 21
4.3.1 Picture 21
4.3.2 System 21
4.3.3 Advance 21
4.3.4 Sound*(Optional) 22
4.3.5 PIP 22
4.3.6 Signal 22
5 FAQ 0

6 Product Label and Expression 1
6.1 Product Pollution Control Label 1
6.2 Toxic or Hazardous Materials or Elements List 1
6.3 Product Expression 2

1 Security and Maintenance

1.1 Product Security Warning

This series product has been passed the thoroughly security test before it shipped out of the manufacturer. It is to maintain the operation security and remove the risk of electric shock. In the product and the user's manual, all the warning fonts or the labels are highlighted to guarantee the operation safety, protect the device, and ensure all the persons are away from the risk of accident and injury. The warning significance as follows:

⚠ **Warning** Any ignorance of this symbol may result in improper performance and error operation, which may cause death or other serious injuries to the operator and other persons.

⚠ **Notice** Any ignorance of this symbol may result in improper performance and error operation, which may cause personal injury or component damage.

1.2 Environment

- This series product is designed to use in the indoor environments only. It is not suitable for the outdoor use. Please make sure there is corresponding air conditioning device in the indoor environments. Please keep it away from the humidity environments or the environments of too much dust.
- Please do not block the vent or the flow of the air around the product. The poor ventilation may result in high temperature in the internal device and may cause fire.

1.3 Usage

- **Screen Protector**

  The screen protector is designed to protect the screen, preventing scratches during transportation. Please take it off before installation.

  Please use absorbent ball or mull to clean the screen surface when it is dirty. Do not use ketone material.

  If there is leakage of liquid crystal, please keep it away from your body and eyes.

- **Remote Control**

Please take out batteries in the remote control if not used for long term.

At time of battery change, please follow the right polarity (＋，－). Otherwise, battery may be damaged and may cause battery liquid leakage, which may result in fire, personal injury or product damage.

Use standard battery only, and do not mix new and used batteries. Otherwise, it may cause battery liquid leakage, which may result in battery damage, fire, personal injury or product damage.

2 Accessories Inspection

Please check the accessories according to the following Chart 2- 1. (Note: The following figure list is equipped with standard configuration, so some special users should refer to the packing list).

Accessories Name	Quantity
LCD Monitor	1
AC power Line	1
VGA cable(1.5m/1 male on both side)	1
Remote Control(one pair of batteries included，1.5V x 2)	1(Standards vary by series)
Screw (M6)	8
User's Manual	1
Pedestal	Optional
Wall Mount	Optional

Chart 2- 1

3 Product Introduction

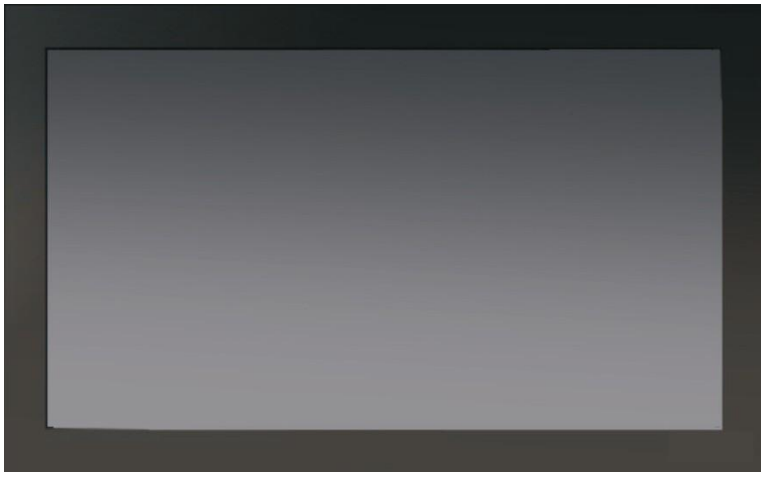

Figure 3- 1

The product is shown as the above. Please see Figure 3- 1.

3.1 Port

The port interface and its description are shown as follows, please see Figure 3- 2 and

No.	Name	Description	
1	Power	AC input plug	AC100-240V~ (+/-10%)，50/60Hz
2	Power Plug	AC input power switch	
3	HDMI	HDMI signal input	1920×1080/60Hz down compatible
4	DVI-D	DVI(-D) signal input	
5	VGA	VGA signal input	
6	VIDEO1 IN	CVBS1 signal input (1Vp-p ,75Ω)	
7	VIDEO1 OUT	CVBS1 signal output (1Vp-p ,75Ω)	
8	VIDEO2 IN	CVBS1 signal input (1Vp-p ,75Ω)	

9	VIDEO2 OUT	CVBS2 signal output (1Vp-p ,75Ω)	
10	AUDIO IN	AUDIO signal input	
11	LAN IN	Serial 232 signal input (RJ45)	
12	LAN OUT	Serial 232 signal output (RJ45)	

Chart 3- 1.

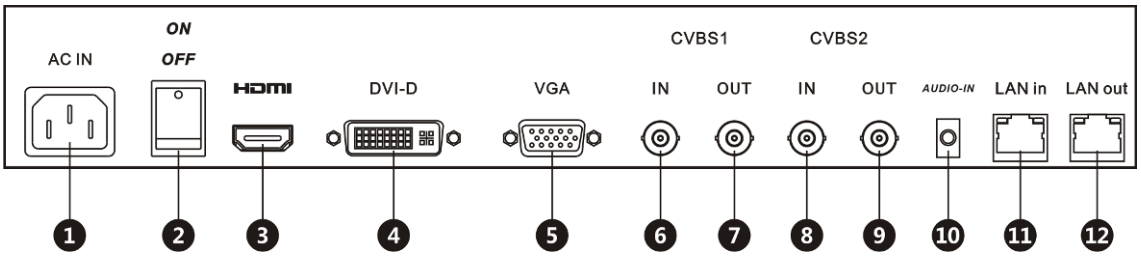

Figure 3- 2

No.	Name	Description	
1	Power	AC input plug	AC100-240V~ (+/-10%)，50/60Hz
2	Power Plug	AC input power switch	
3	HDMI	HDMI signal input	1920×1080/60Hz down compatible
4	DVI-D	DVI(-D) signal input	
5	VGA	VGA signal input	
6	VIDEO1 IN	CVBS1 signal input (1Vp-p ,75Ω)	
7	VIDEO1 OUT	CVBS1 signal output (1Vp-p ,75Ω)	
8	VIDEO2 IN	CVBS1 signal input (1Vp-p ,75Ω)	
9	VIDEO2 OUT	CVBS2 signal output (1Vp-p ,75Ω)	
10	AUDIO IN	AUDIO signal input	
11	LAN IN	Serial 232 signal input (RJ45)	
12	LAN OUT	Serial 232 signal output (RJ45)	

Chart 3- 1

3.2 Remote Control

3.2.1 Button

The remote control interface is shown as follows; please see

Figure 3- 3.

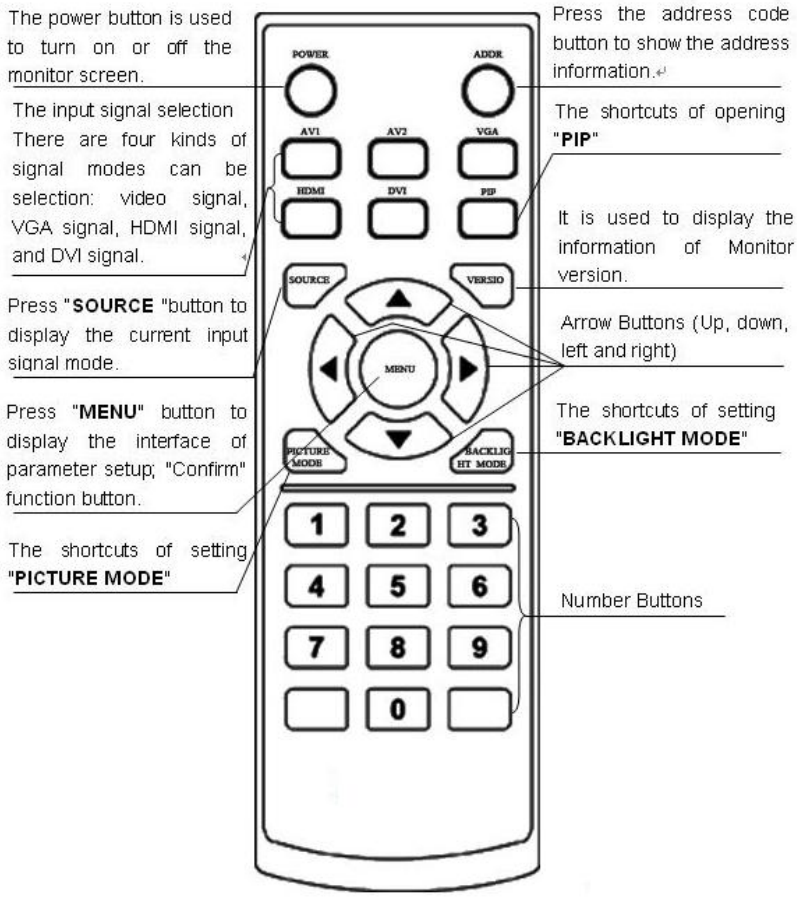

Figure 3- 3

3.2.2 Shortcut Operation

◆Address

When there are two or more monitors, you can set remote control address to eliminate interference and enable one remote control over multiple monitors.

When you first set address, press menu on remote control to enter setting interface and select advanced to enter parameter setup. Select manual address switch, right click to adjust to 1 (default manual address is "row: 0, column: 0" as close manual address). Set address row, address column and adjust via left and right key. Value range is 1 to 15 (when setup is 0, manual address will be disabled). Press menu key to confirm and exit.

After setup is complete, press address key on remote control, then on screen pops up address menu (automatically detects set hardware address). Use remote control number

key to set the two rows of address below, column XX (XX is number) as same as two rows above. Press menu key.

For example, in Figure 3- 4 the automatically detected address is (row: 1, line: 1), then set the lower address to (row: 01, line: 01) and press menu key.

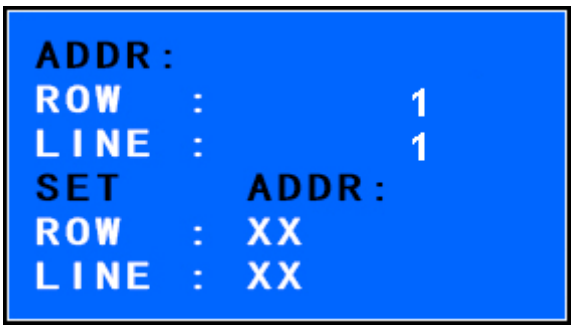

Figure 3- 4

After you have set address, you can use remote control as normal, the control period is 10s. It becomes invalid after 10s, and if you want to re-control, you must set remote control address.

◆ Video 1/Video 2/VGA/HDMI/DVI

Monitor can be connected to signal of Video 1, Video 2, VGA, HDMI, and DVI. Before menu, you may quickly select signal source, and press menu key to set related parameter.

Signal source of Video 1/Video 2 mode, please refer to Ch 4.1.

Signal source of VGA mode, please refer to Ch 4.2.

Signal source of HDMI/DVI mode, please refer to Ch 4.3.

◆ PIP

Press PIP, you can quickly switch video signal source mode, such as PIP, multi-picture, off.

◆ Signal Format

Press signal mode, you can view current signal source format.

◆ Version

Press version, you can view current version of program.

◆ Image Mode

Press image mode, you can view current image mode.

◆ Brightness

Press brightness, you can view current brightness mode.

4 Parameter Setup

4.1 Video 1/Video 2

Press shortcut Video 1 or Video 2, enter the following parameter setup. Press menu key, you can see Figure 4- 1.

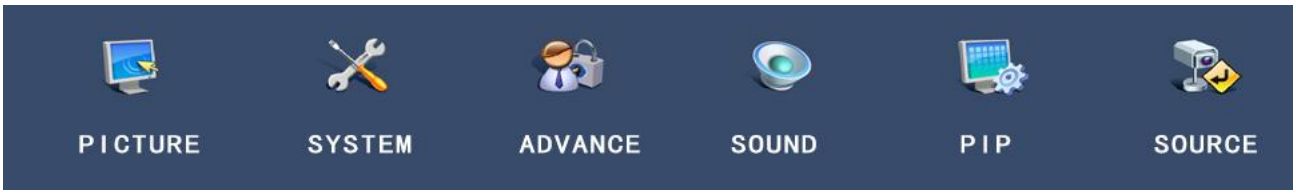

Figure 4- 1

4.1.1 Picture Setup

In main menu interface, select picture via arrow key ◄ ► and press menu key on remote control to enter picture setup interface.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface. See Figure 4- 2.

Figure 4- 2

◆ BRIGHTNESS

Brightness adjusts overall brightness of picture. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 3.

Figure 4- 3

◆ HUE

HUE function is available under NTSC standard only. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 4.

Figure 4- 4

◆ COLOR TONE

Color tone adjusts overall tone of picture. You can adjust via ▲ ▼ key on remote control. See Figure 4- 5.

Figure 4- 5

◆ CONTRAST

Contrast adjusts overall layering of picture. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 6.

Figure 4- 6

◆ SATURATION

Saturation adjusts color depth of picture. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 7.

Figure 4- 7

◆ SHARPNESS

Sharpness adjusts the definition of picture. The higher the sharpness, the higher the definition will be, but please note that high definition leads to obvious noise. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 8.

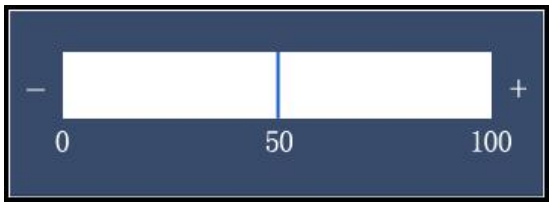

Figure 4- 8

◆ PICTURE MODE

Picture mode adjusts overall effect of picture. You can adjust via ▲ ▼ key on remote control. Under these modes (natural, dynamic, soft and personal), you cannot adjust brightness, HUE, contrast, saturation, or sharpness. See Figure 4- 9.

Figure 4- 9

◆ SCALE MODE

Scale mode adjusts display scale of picture. You can adjust via ▲ ▼ key on remote control. There are 16:9, zoom 1, zoom 2 and 4:3 available. See Figure 4- 10.

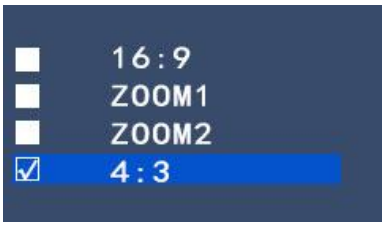

Figure 4- 10

◆ **3D NR**

3D NR adjusts noise level to reduce picture noise. You can adjust via ▲ ▼ key on remote control. There are off, low, mid and high available. See Figure 4- 11.

Figure 4- 11

◆ **MPEG NR**

MPEG NR soften picture to reduce noise thus improve quality. You can adjust via ▲ ▼ key on remote control. There are off, low and high available. See Figure 4- 12.

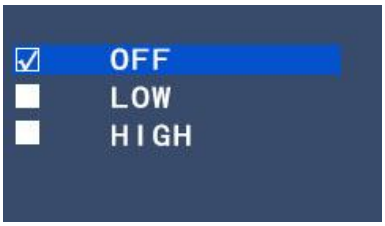

Figure 4- 12

◆ **RETURN**

By pressing menu key on remote control, you can exit picture setup interface.

4.1.2 System

In main menu interface, select system via arrow key ◄ ► and press menu key on remote control to enter system setup interface.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface. See Figure 4- 13.

Figure 4- 13

◆ RESETTING

Resetting resets parameters to default. You can adjust via ▲ ▼ key on remote control. See Figure 4- 14.

Figure 4- 14

◆ BACKGROUND MODE

Background mode sets background color when there is no signal on screen. You can adjust via ▲ ▼ key on remote control. There are black screen and blue screen available. See Figure 4- 15.

Figure 4- 15

◆ OSD-LANGUAGE

OSD language sets language of menu. You can adjust via ▲ ▼ key on remote control. There are English and Chinese available. See Figure 4- 16.

Figure 4- 16

◆ SLEEP TIMER

Sleep timer sets standby after a certain period of timer. You can adjust via ◄ ► key on remote control. Its range is 0~60. See Figure 4- 17.

Figure 4- 17

◆ BACKLIGHT MODE

Backlight mode sets backlight brightness of screen. You can adjust via ▲ ▼ key on remote control. There are powersave, standard and highlight available. See Figure 4- 18.

Figure 4- 18

◆ VERSION

Press menu key on remote control to display version information. If you upgrade the system, version information will automatically change. See Figure 4- 19.

Figure 4- 19

◆ DCC

DCC adjusts overall layering of dynamic picture. You can adjust via ▲ ▼ key on remote control. See Figure 4- 20.

Figure 4- 20

◆ OSD-DURATION

OSD-duration adjusts duration of menu display on screen. You can adjust via ◄ ► key on remote control. Its range is 0~60. See Figure 4- 21.

Figure 4- 21

◆ SOFTADDR

Softaddr sets address switch. You can adjust via ◄ ► key on remote control. Its range is 1~15. When is it 0, address is manually switched off. See Figure 4- 22.

Figure 4- 22

◆ **RETURN**

By pressing menu key on remote control, you can exit system setup interface.

4.1.3 Advance

In main menu interface, select advance via arrow key ◄ ► and press menu key on remote control to enter advance setup interface. See Figure 4- 23.

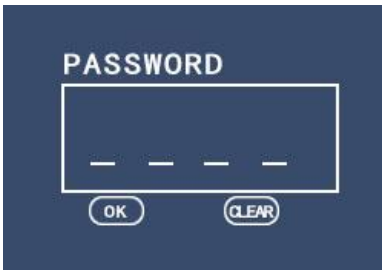

Figure 4- 23

Initial password:8888.

In advance setup interface, professional staff can set: parameter set, picture mode, color tone, overscan, factory reset and ADC adjust. See Figure 4- 24.

Warning: Non-professional staffs are not allowed to modify advance setup. The manufacturer is not liable for any problem resulted from modification done by non-professional staff.

Figure 4- 24

4.1.4 Sound* (Optional)

In main menu interface, select sound via arrow key ◄ ► and press menu key on remote control to enter sound setup interface.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface. See Figure 4- 25.

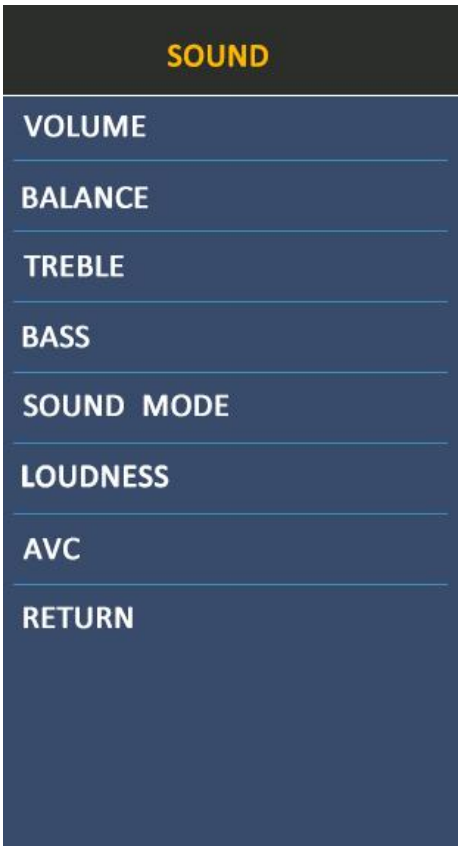

Figure 4- 25

◆ **VOLUME**

Volume adjust sound volume. You can adjust via ▲ ▼ key on remote control. See Figure 4- 26.

Figure 4- 26

◆ **BALANCE**

Balance adjusts balance in left and right tracks. You can adjust via ▲ ▼ key on remote control. Its range is 0~100. See Figure 4- 27.

Figure 4- 27

◆ **TREBLE**

Treble opens channel of treble. You can adjust via ▲ ▼ key on remote control. See Figure 4- 28.

Figure 4- 28

◆ BASS

Bass opens bass channel. You can adjust via ▲ ▼ key on remote control. See Figure 4- 29.

Figure 4- 29

◆ SOUND MODE

Sound mode sets sound mode. You can adjust via ▲ ▼ key on remote control. There are standard, movie, music and personal available. See Figure 4- 30.

Figure 4- 30

◆ LOUDNESS

Loudness sets sound effect mode. You can adjust via ▲ ▼ key on remote control. See Figure 4- 31.

Figure 4- 31

◆ **AVC**

AVC automatically adjusts sound volume. You can adjust via ▲ ▼ key on remote control. See Figure 4- 32.

Figure 4- 32

◆ **RETURN**

By pressing menu key on remote control, you can exit sound setup interface.

4.1.5 PIP

In main menu interface, select PIP via arrow key ◄ ► and press menu key on remote control to enter PIP setup interface.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface. See Figure 4- 33.

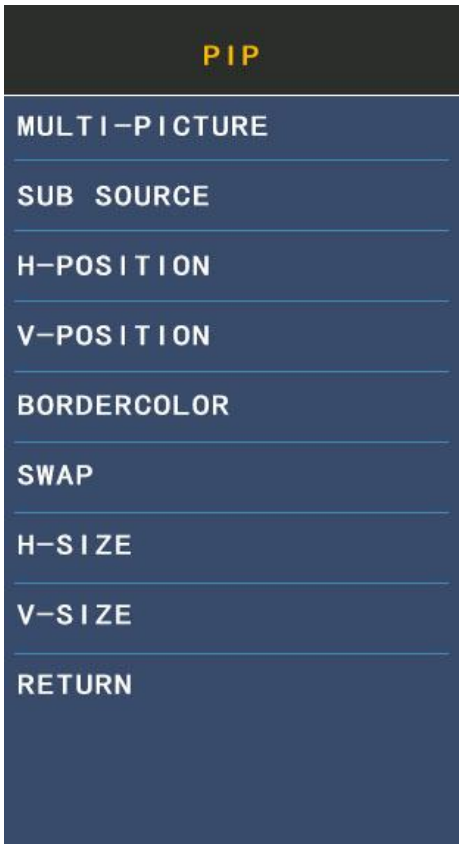

Figure 4- 33

◆ MULTI-PICTURE

Multi-picture enables or disables multi-picture mode and set its display mode. You can adjust via ▲ ▼ key on remote control. There are off, on, and dual window available. See Figure 4- 34.

Figure 4- 34

When multi-picture is off, you cannot adjust: sub source, h-position, v-position, border color, swap, h-size or v-size.

When multi-picture is on, screen has two types of signal source.

When multi-picture is in dual window, screen displays two types of signal source as one is on the left and the other is on the right. You cannot adjust: sub source, border color, swap.

◆ SUB SOURCE

Sub source sets signal format of sub window in multi-picture mode. You can adjust via ▲ ▼ key on remote control. There are PC, HDMI, DVI, AV 1 and AV 2. See Figure 4- 35.

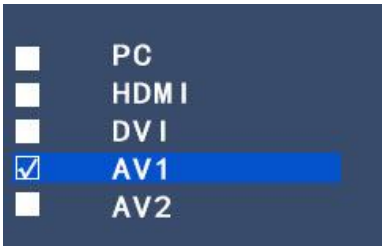

Figure 4- 35

◆ H-POSITION

H-position adjusts horizontal position of sub window. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 36.

Figure 4- 36

◆ V-POSITION

V-position adjusts vertical position of sub window. You can adjust via ◄ ► key on remote control. Its range is 0~100.See Figure 4- 37.

Figure 4- 37

◆ BORDER COLOR

Border color adjusts border color of sub window. You can adjust via ▲ ▼ key on remote control. There are black and blue available. See Figure 4- 38.

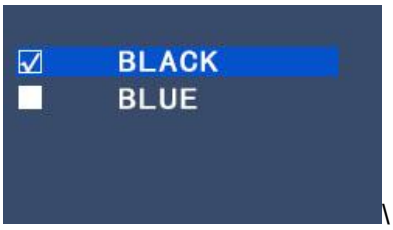

Figure 4- 38

◆ SWAP

Press menu key on remote control, and screen will exchange signal formats of main window and sub window.

◆ H-SIZE

H-size adjusts horizontal size of sub window. You can adjust via◄ ► key on remote control. Its range is 0~100. See Figure 4- 39.

Figure 4- 39

◆ **V-SIZE**

V-size adjusts vertical size of sub window. You can adjust via◄ ► key on remote control. Its range is 0~100. See Figure 4- 40.

Figure 4- 40

◆ **RETURN**

By pressing menu key on remote control, you can exit system setup interface.

4.1.6 Source

In main menu interface, select source via arrow key◄ ► and press menu key on remote control to enter source setup interface. See Figure 4- 41.

Figure 4- 41

Select source via arrow key ▲ ▼ on remote control, and press menu key to confirm.

◆ **RETURN**

By pressing menu key on remote control, you can exit source setup interface.

4.2 PC

Press menu key on remote control to display main menu. In main menu interface, press ▼ key to exit. See Figure 4- 42.

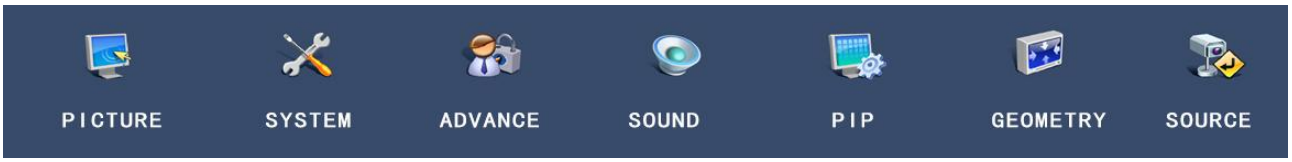

Figure 4- 42

4.2.1 Picture

In main menu interface, select picture via arrow key ◄ ► and press menu key on remote control to enter picture setup interface. See Figure 4- 43.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface.

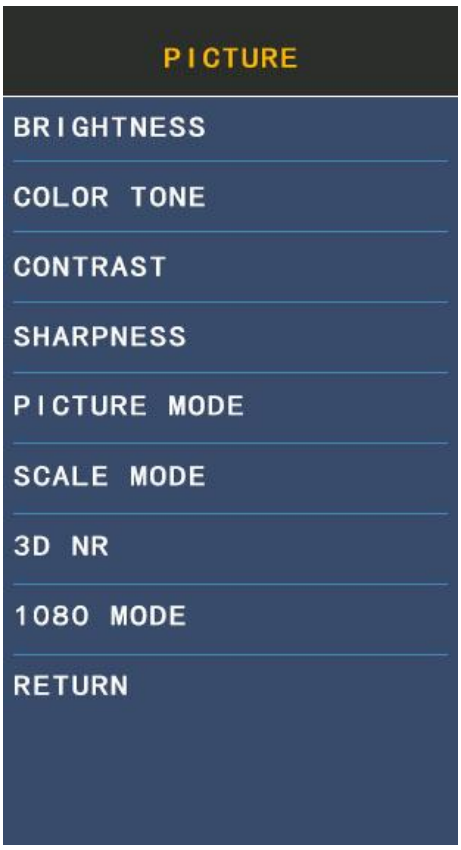

Figure 4- 43

◆ BRIGHTNESS

Brightness adjusts overall brightness of picture. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 44.

Figure 4- 44

◆ COLOR TONE

Color tone adjusts overall tone of picture. You can adjust via ▲ ▼ key on remote control. There are standard, warm, cool, personal and S-RGB available. See Figure 4- 45.

Figure 4- 45

◆ CONTRAST

Contrast adjusts overall layering of picture. You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 46.

Figure 4- 46

◆ SHARPNESS

Sharpness adjusts the definition of picture. The high the sharpness, the higher the definition will be, but please note that high definition leads to obvious noise. You can adjust via ◄ ► key on remote control. Its range is 0~8. See Figure 4- 47.

Figure 4- 47

◆ PICTURE MODE

Picture mode adjusts overall effect of picture. You can adjust via ▲ ▼ key on remote control. There are natural, dynamic, soft and personal available. See Figure 4- 48.

Figure 4- 48

◆ SCALE MODE

Scale mode adjusts display scale of picture. You can adjust via ▲ ▼ key on remote control. There are 16:9 and 4:3 available. See Figure 4- 49.

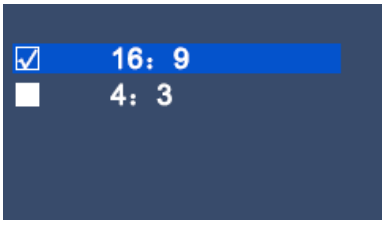

Figure 4- 49

◆ 3D NR

3D NR adjusts noise level to reduce picture noise. You can adjust via ▲ ▼ key on remote control. There are off, low, mid and high available. See Figure 4- 50.

Figure 4- 50

◆ 1080 MODE

1080 mode is available under VGA mode only with resolution of 1920*1080. When screen cannot display in full screen, you can adjust display via ▲ ▼ key on remote control. See Figure 4- 51.

Figure 4- 51

◆ RETURN

By pressing menu key on remote control, you can exit picture setup interface.

4.2.2 System

Refer to Ch 4.1.2.

4.2.3 Advance

Refer to Ch 4.1.3.

4.2.4 Sound* (Optional)

Refer to Ch 4.1.4.

4.2.5 PIP

Refer to Ch 4.1.5.

4.2.6 Geometry

In main menu interface, select geometry via arrow key ◄ ► and press menu key on remote control to enter geometry setup interface. See Figure 4- 52.

Select item to adjust via ▲ ▼ arrow key and press menu key on remote control to enter parameter setup interface.

Figure 4- 52

◆ **PHASE**

You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 53.

Figure 4- 53

◆ **H-POSITION**

You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 54.

Figure 4- 54

◆ **V-POSITION**

You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 55.

Figure 4- 55

◆ **CLOCK**

You can adjust via ◄ ► key on remote control. Its range is 0~100. See Figure 4- 56.

Figure 4- 56

◆ **AUTO ADJUST**

Press menu key on remote control, and system will automatically adjust screen to best effect.

◆ **RETURN**

By pressing menu key on remote control, you can exit geometry setup interface.

4.2.7 Signal

Refer to Ch 4.1.6.

4.3 HDMI/DVI

Press HDMI or DVI, to enter the following parameter setup. Press menu key on remote control to display main menu. See Figure 4- 57.

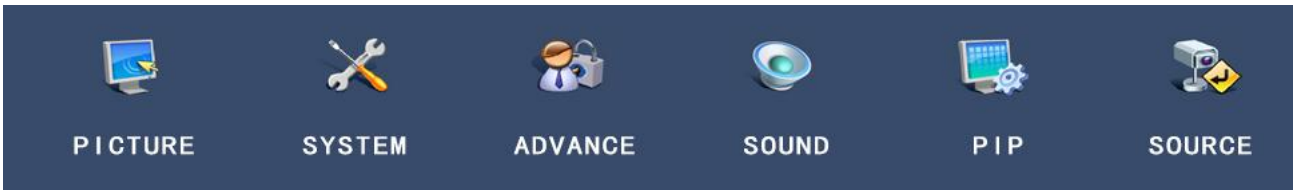

Figure 4- 57

4.3.1 Picture

Current signal format has no compatible option. See Figure 4- 58. Refer to Ch 4.2.1.

Figure 4- 58

4.3.2 System

Refer to Ch 4.1.2.

4.3.3 Advance

Refer to Ch 4.1.3.

4.3.4 Sound*(Optional)

Refer to Ch 4.1.4.

4.3.5 PIP

Refer to Ch 4.1.5.

4.3.6 Signal

Refer to Ch 4.1.6.

5 FAQ

This chapter describes the key points and strategies to solve problems that will be encountered in the process of installing or using the product. Most of the faults can be resolved according to the following steps without maintenance services. If the problem is not included in the following description in Chart 6- 1, please contact the supplier to handle it.

Symptom	Troubleshoot
1）I cannot boot up the device (black screen).	1. Power(AC 220V) is connected to the device or not. 2. Check the power cable has been damaged or not. 3. Check the on-off button has been turned on or not. 4. Check the power on-off button has been damaged or not. 5. The indication light is on or not.
2）Blue screen (no signal)	1. Check signal cable connection is OK or not. 2. Check there is signal source output or not. 3. Check the signal cable is damaged or not. 4. Check the input signal is out of the product input range or not.
3）Screen cannot display all colors.	1. Check the signal cable connection is good or not. 2. Replace the cable if the signal cable has been damaged.
4）The device does not respond when I control it.	1. Check button is damaged, stuck or not. 2. Check there is battery in the remote control and has been well installed.
5）The device temperature is too high.	1. Check the fan is running properly or not. 2. Check the environment ventilation is good or not.

Chart 6- 1

6 Product Label and Expression

According to China's *Measures for the Control of Pollution from Electronic Information Products,* the product label and expression are as follows:

6.1 Product Pollution Control Label

This product series adopts the following sign of pollution control for electronic information product:

6.2 Toxic or Hazardous Materials or Elements List

Chart 7- 1 Content label of toxic or hazardous materials or elements

Component Name	Cd	Cr VI	Hg	Pb	PBB	PBDE
Case	○	○	○	○	○	○
LCD Panel	○	○	○	○	○	○
Control Module	○	○	○	×	○	○
Auxiliary Material	○	×	○	○	○	○

○: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

×: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard.

Note: The Pb in the control module and the Cr VI in the auxiliary material conforms to the exemption section of the *EU Restriction of Hazardous Substances (RoHS) directive*.

6.3 Product Expression

Our company began to implement the *EU Restriction of Hazardous Substances (RoHS) directive* since 2005. From now on, all the products will confront the requirements of relevant directions.

Note

- **This user's manual is for reference only. Slight difference may be found in user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website for more information.**