

DHL22 LCD Monitor User' Manual

V2.01

Table of Contents

Chapter 1 Safety	3
1.1 Product Safety Warning	3
1.2 Environment	3
1.3 Users	3
Chapter 2 Accessories Inspection	4
Chapter 3 Product Appearance	5
3.1 Port	5
3.2 Remote Control Diagram	6
Chapter 4 Parameter Setup	7
4.1 Video Mode	7
4.1.1 Picture Setup	7
4.1.2 Sound Setup	8
4.1.3 System Setup	9
4.1.4 Advance Setup	11
4.1.5 PIP Setup	12
4.1.6 Source Setup	13
4.2 VGA Mode	13
4.2.1 Picture Setup	13
4.2.2 Sound Setup	15
4.2.3 System Setup	15
4.2.4 Geometry Setup	15
4.2.5 PIP Setup	16
4.2.6 Source Setup	16
4.3 HDMI Mode	16
4.3.1 Picture Setup	16
4.3.2 Sound Setup	16
4.3.3 System Setup	17
4.3.4 PIP Setup	17
4.3.5 Source Setup	18
Chapter 5 FAQ	18
Chapter 6 Product Label and Expression	19
6.1 Product Pollution Control Label	20
6.2 Toxic or Hazardous Materials or Elements List	20
6.3 Product Expression	20

Chapter 1 Safety

1.1 Product Safety Warning

This series product has been passed the thoroughly security test before it shipped out of the manufacturer. It is to maintain the operation safety 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 Users

● Screen Protector

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

● Remote Control

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

When you change battery in remote control, 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. 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.

Chapter 2 Accessories Inspection

Please check the accessories according to the following Chart 2- 1. (Note: The following figure list is equipped with standard configuration, and 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 (m4)	4
User's Manual	1
Chassis	Optional
Wall Mount	Optional

Chart 2- 1

Chapter 3 Product Appearance



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 Chart 3- 1.

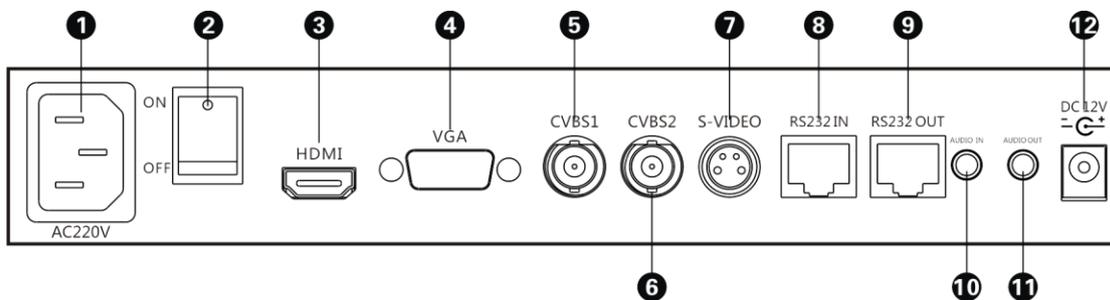


Figure 3- 2

SN	Name	Port Description	
1	Power Plug	AC input power plug	1080P (1920×1080/60Hz) downward compatible
2	Power Switch	ACinput power switch	
3	HDMI	HDMI signal input	
4	VGA	VGA signal input	
5	CVBS1	CVBS1 signal input (1Vp-p ,75Ω)	
6	CVBS2	CVBS2 signal input	

		(1Vp-p ,75Ω)	
7	S-VIDEO	S-VIDEO signal input	
8	RS232 IN	Serial 232 signal input (RJ45)	
9	RS232 OUT	Serial 232 signal output (RJ45)	
10	AUDIO IN	AUDIO signal input	
11	AUDIO OUT	AUDIO signal output	
12	DC 12V	DC input/output	

Chart 3- 1

3.2 Remote Control Diagram

The remote control interface is shown as follows. Please see Figure 3- 3.

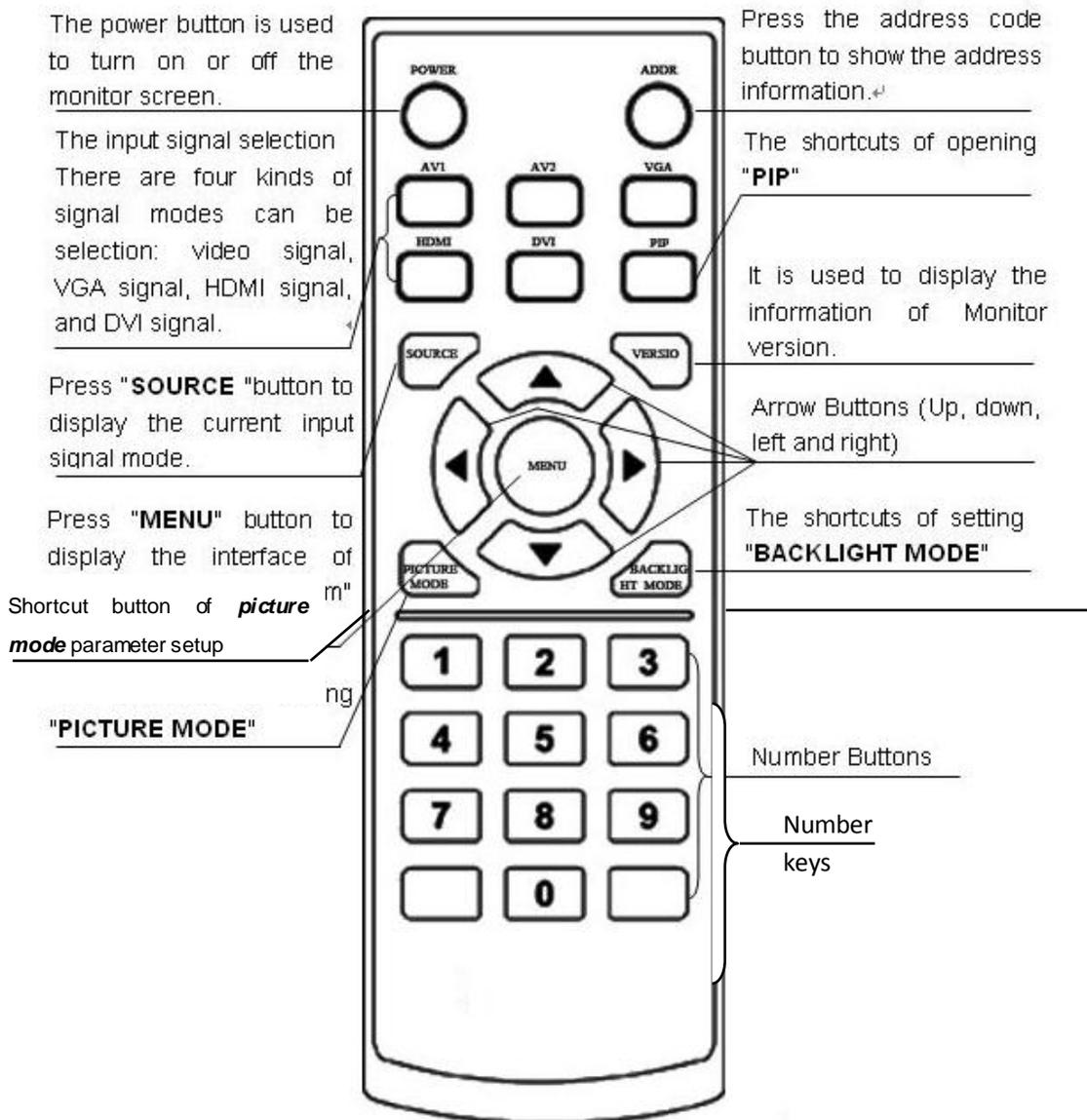


Figure 3- 3

Chapter 4 Parameter Setup

4.1 Video Mode

4.1.1 Picture Setup

Press **menu** button, select **picture** via arrow key ▶ on remote control to enter picture setup page. Please see Figure 4- 1.

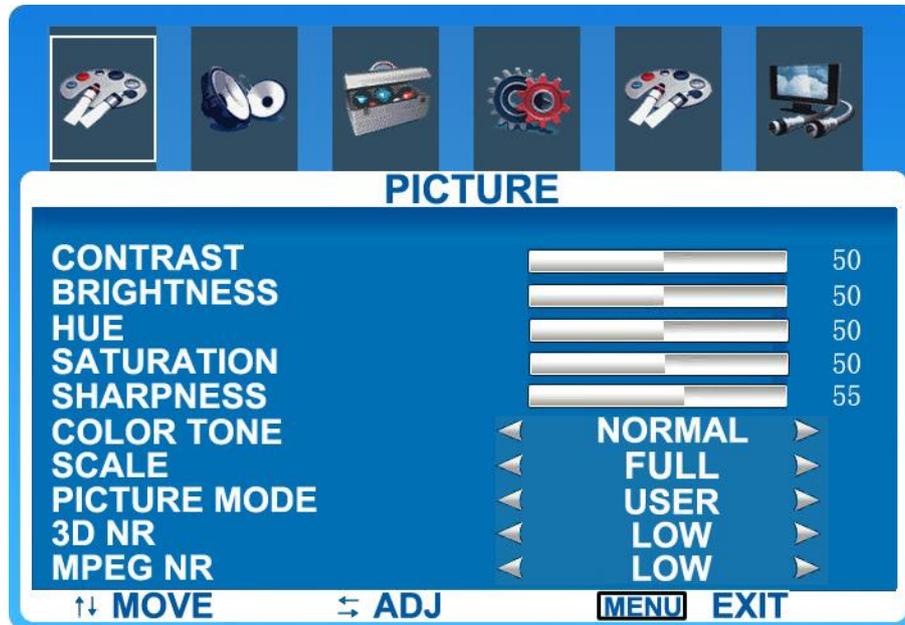


Figure 4- 1

◆ Contrastness

In picture setup page, select **contrastness**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Brightness

In picture setup page, select **brightness**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Hue

Tone mode is effective for AV input signal only.

In picture setup page, select **hue**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Saturation

In picture setup page, select **saturation**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Sharpness (Definition)

Sharpness is used to adjust picture definition, the higher the sharpness, the clear the picture will be. Meantime, disturbance increase respectively.

In picture setup page, select **sharpness**. You can adjust via arrow keys ◀ ▶ on remote

control. The value ranges from 0 to 100.

◆ Color Tone

In picture setup page, select **color tone**. You can adjust via arrow keys ◀ ▶ on remote control. It has three modes: normal, cool color, and warm color.

◆ Scale

In picture setup page, select **scale**. You can adjust via arrow keys ◀ ▶ on remote control. It has six modes: full, zoom 1, zoom 2, normal, nonlinear, and auto.

◆ Picture Mode

In picture mode, you can adjust to preset values of contrastness, brightness, hue, saturation and sharpness. You can maximize picture quality quickly by adjusting picture mode.

In picture setup page, select **picture mode**. You can adjust via arrow keys ◀ ▶ on remote control. It has four modes: gorgeous, normal, smooth, and user.

◆ 3D NR

3D NR adjustment reduces noises in picture.

In picture setup page, select **3D NR**. You can adjust via arrow keys ◀ ▶ on remote control. It has four modes: low, medium, high and off.

◆ MPEG NR

In picture setup page, select **MPEG NR**. You can adjust via arrow keys ◀ ▶ on remote control. It has three modes: low, high and off.

4.1.2 Sound Setup

Press **menu** button, select **sound** via arrow key ▶ on remote control to enter sound setup page. Please see Figure 4- 2.



Figure 4- 2

◆ Equalizer

In sound setup page, select **equalizer**. You can adjust via arrow keys ◀ ▶ on remote control.

◆ Balance

In sound setup page, select **balance**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Sound Mode

In sound setup page, select **sound Mode**. You can adjust via arrow keys ◀ ▶ on remote control. It has four modes: normal, movie, music and user.

◆ Subwoofer

In sound setup page, select **subwoofer**. You can adjust via arrow keys ◀ ▶ on remote control. It has two modes: on and off.

◆ AVC

In sound setup page, select **AVC**. You can adjust via arrow keys ◀ ▶ on remote control: on and off.

◆ Loudness

In sound setup page, select **loudness**. You can adjust via arrow keys ◀ ▶ on remote control. It has five modes: off, mode 1, mode 2, mode 3, and mode 4.

◆ Superbass

In sound setup page, select **superbass**. You can adjust via arrow keys ◀ ▶ on remote control. It has two modes: on and off.

◆ Volume

In sound setup page, select **volume**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

4.1.3 System Setup

Press **menu button**, select **system** via arrow key ▶ on remote control to enter system setup page. Please see Figure 4- 3.



Figure 4- 3

◆ OSD-Language

In menu setup page, select **OSD-language**. You can adjust via arrow keys ◀ ▶ on remote control. It has two types of language: Chinese and English.

◆ OSD-H Positon

In menu setup page, select **OSD-h position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ OSD-V Position

In menu setup page, select **OSD-v position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ OSD-Duration

The time on screen can be set in OSD-duration.

In menu setup page, select **OSD duration**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 60.

◆ OSD-Half Tone

The transparency of menu background on screen can be set in OSD-half tone.

In menu setup page, select **OSD-half tone**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Information

In menu setup page, select **information**, and then press arrow key ▶ on remote control, system information will display.

◆ Backlight Mode

In menu setup page, select **backlight mode**. You can adjust via arrow keys ◀ ▶ on remote control. It has three modes: power saving, normal, and highlight.

◆ MEM-Recall

In menu setup page, select **MEM-recall**, and then press arrow key ▶ on remote control, the system will be initialized.

4.1.4 Advance Setup

Press **menu button**, select **advance** via arrow key ▶ on remote control to enter advance setup page. Please see Figure 4- 4.



Figure 4- 4

◆ Sleep Timer

The time off can be set in sleep timer menu.

In advance setup page, select **sleep timer**. You can adjust via arrow keys ◀ ▶ on remote control. It has five modes: off immediately, off in 15 min, off in 30 min, off in 45 min and off in 60 min.

◆ Overscan_H

In advance setup page, select **overscan_h**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 60.

◆ Overscan_V

In advance setup page, select **overscan_v**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 30.

◆ Underscan_H

In advance setup page, select **underscan_h**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 60.

◆ Underscan_V

In advance setup page, select **underscan_v**. You can adjust via arrow keys ◀ ▶ on

remote control. The value ranges from 0 to 14.

4.1.5 PIP Setup

Press **menu button**, select **PIP** via arrow key ► on remote control to enter PIP setup page. Please see Figure 4- 5.

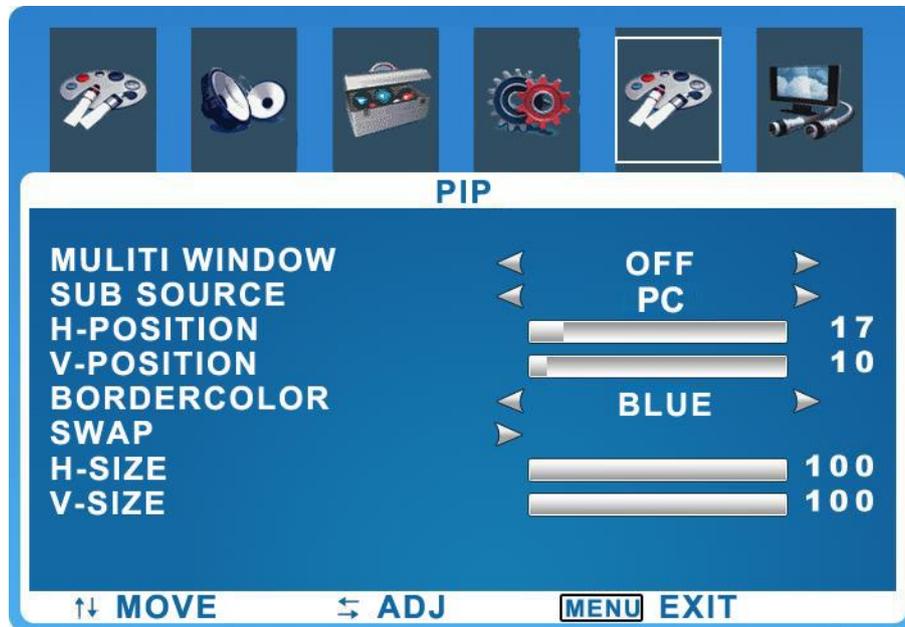


Figure 4- 5

◆ Multi Window

In PIP setup page, select **multi window**. You can adjust via arrow keys ◀ ▶ on remote control. It has three modes: on(PIP), off, and dual window.

If you select off mode, the following 7 items will be dark and not adjustable: sub source, h-position, v-position, border color, swap, h-size, and v-size.

◆ Sub Source

In PIP setup page, select **sub source**. You can adjust via arrow keys ◀ ▶ on remote control. It has two modes: PC and HDMI. Original mode is not available.

◆ H-Postion

In PIP setup page, select **h-position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ V-Position

In PIP setup page, select **v-position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ Border Color

In PIP setup page, select **border color**. You can adjust via arrow keys ◀ ▶ on remote control. It has two modes: blue and black.

◆ Swap

You can swap video input between main and sub sources in swap setup. In PIP setup page, select **swap**. You can adjust via arrow keys ◀ ▶ on remote control.

◆ H-Size

In PIP setup page, select **h-size**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ V-Size

In PIP setup page, select **v-size**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

4.1.6 Source Setup

Press **menu button**, select **source** via arrow key ▶ on remote control to enter source setup page. Please see Figure 4- 6.



Figure 4- 6

◆ Source

You can select among: PC, HDMI, SVIDEO, AV1, and AV2.

4.2 VGA Mode

4.2.1 Picture Setup

Press **menu button**, select **picture** via arrow key ▶ on remote control to enter picture setup page. Please see Figure 4- 7.

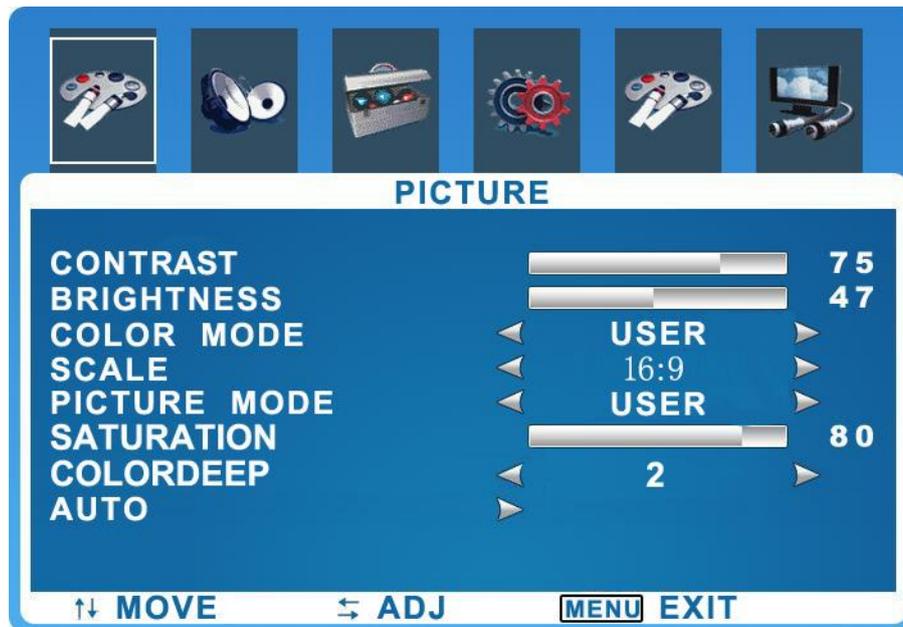


Figure 4- 7

◆ Contrastness

In picture setup page, select **contrastness**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ Brightness

In picture setup page, select **brightness**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ Color Mode

In picture setup page, select **color tone**. You can adjust via arrow keys ◀ ▶ on remote control. It has five modes: user, normal, cool color, warm color, and S-RGB.

S-RGB (standard Red Green Blue) is the universal color standard, based on independent color coordinate. It eliminates the need of specified color analysis of display devices and meantime those devices can still display video file properly .

◆ Scale

In picture setup page, select **scale**. You can adjust via arrow keys ◀ ▶ on remote control. It has two modes: 16:9 and 4:3.

◆ Picture Mode

In picture mode, you can adjust to preset values of contrastness, brightness, hue, saturation and sharpness. You can maximize picture quality quickly by adjusting picture mode.

In picture setup page, select **picture mode**. You can adjust via arrow keys ◀ ▶ on remote control. It has four modes: gorgeous, normal, smooth, and user.

◆ Saturation

In picture setup page, select **saturation**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to 100.

◆ Color Deep

In picture setup page, select **color deep**. You can adjust via arrow keys◀ ▶ on remote control. The value ranges from 0 to 8.

◆ Auto

In picture setup page, select **auto**. You can adjust via arrow keys◀ ▶ on remote control.

4.2.2 Sound Setup

Sound setup is same with setup under **video mode**, please refer to Chapter 4.1.2.

4.2.3 System Setup

System setup is same with setup under **video mode**, please refer to Chapter 4.1.3.

4.2.4 Geometry Setup

Press **menu button**, select **geometry** via arrow key ▶ on remote control to enter geometry setup page. Please see Figure 4- 8.

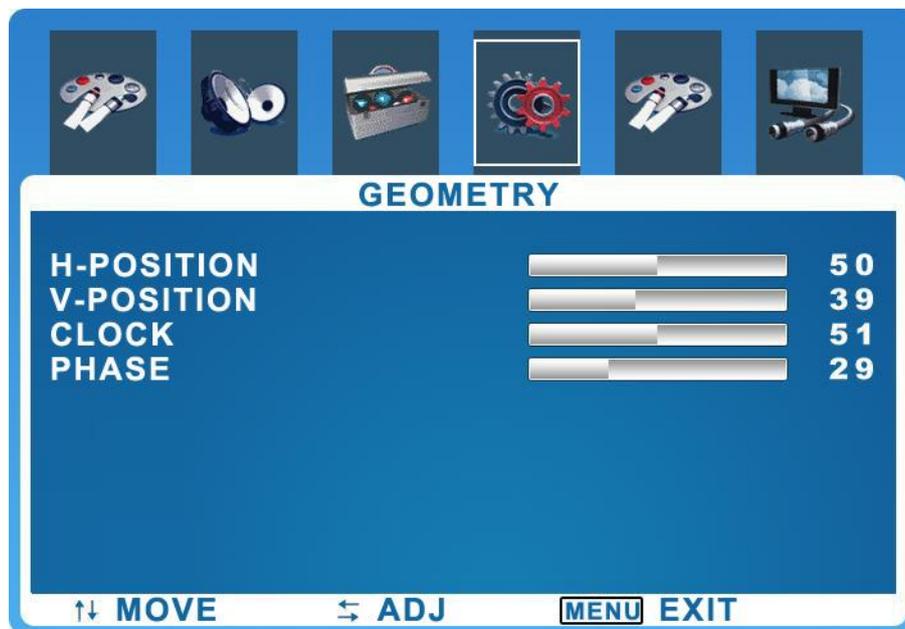


Figure 4- 8

◆ H-Position

In geometry setup page, select **h-position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ V-Postion

In geometry setup page, select **v-position**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ Clock

In geometry setup page, select **clock**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

◆ Phase

In geometry setup page, select **phase**. You can adjust via arrow keys ◀ ▶ on remote control. The value ranges from 0 to100.

4.2.5 PIP Setup

PIP setup is same with setup under **video mode**, please refer to Chapter 4.1.5.

4.2.6 Source Setup

Source setup is same with setup under **video mode**, please refer to Chapter 4.1.6.

4.3 HDMI Mode

4.3.1 Picture Setup

Press **menu** button, select **picture** via arrow key ▶ on remote control to enter picture setup page. Please see Figure 4- 9.

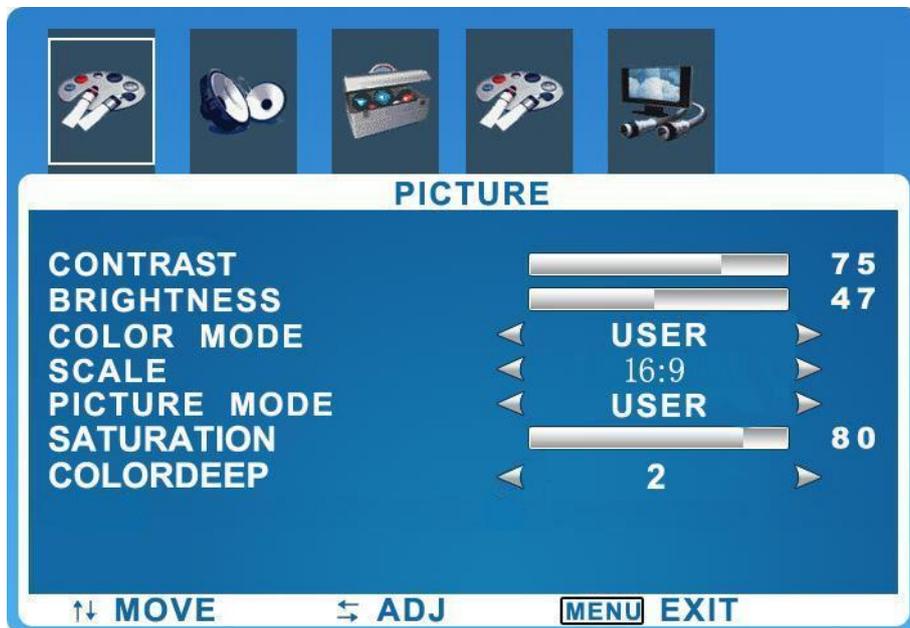


Figure 4- 9

Picture setup is same with setup under **VGA mode**, please refer to Chapter 4.2.1.

Under **HDMI mode**, there is no **auto** setup.

4.3.2 Sound Setup

Press **menu** button, select **sound** via arrow key ▶ on remote control to enter sound setup page. Please see Figure 4- 10.

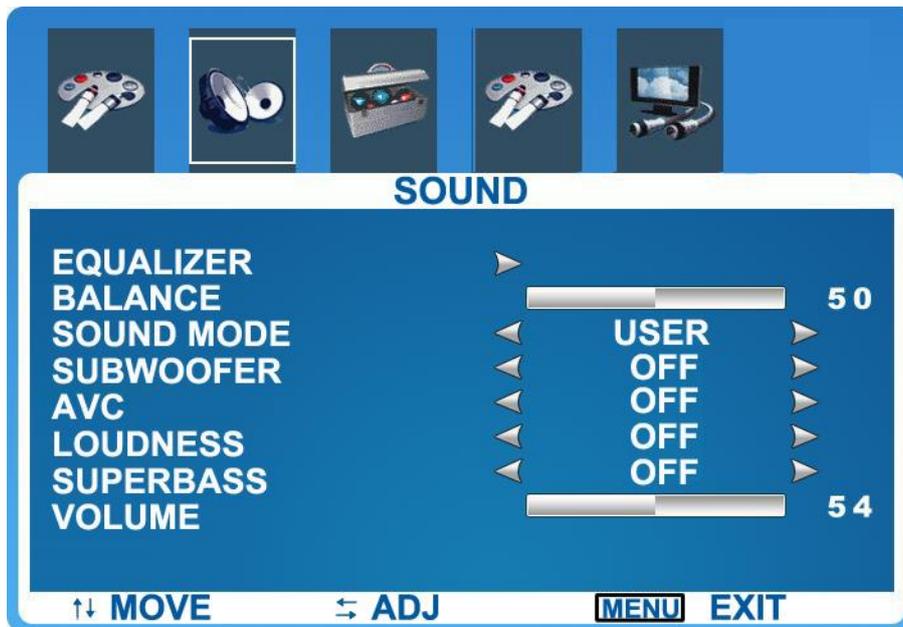


Figure 4- 10

Sound setup is same with setup under **video mode**, please refer to Chapter 4.1.2.

4.3.3 System Setup

Press **menu** button, select **system** via arrow key ► on remote control to enter system setup page. Please see Figure 4- 11.



Figure 4- 11

System setup is same with setup under **video mode**, please refer to Chapter 4.1.3.

4.3.4 PIP Setup

Press **menu** button, select **PIP** via arrow key ► on remote control to enter PIP setup page. Please see Figure 4- 12.

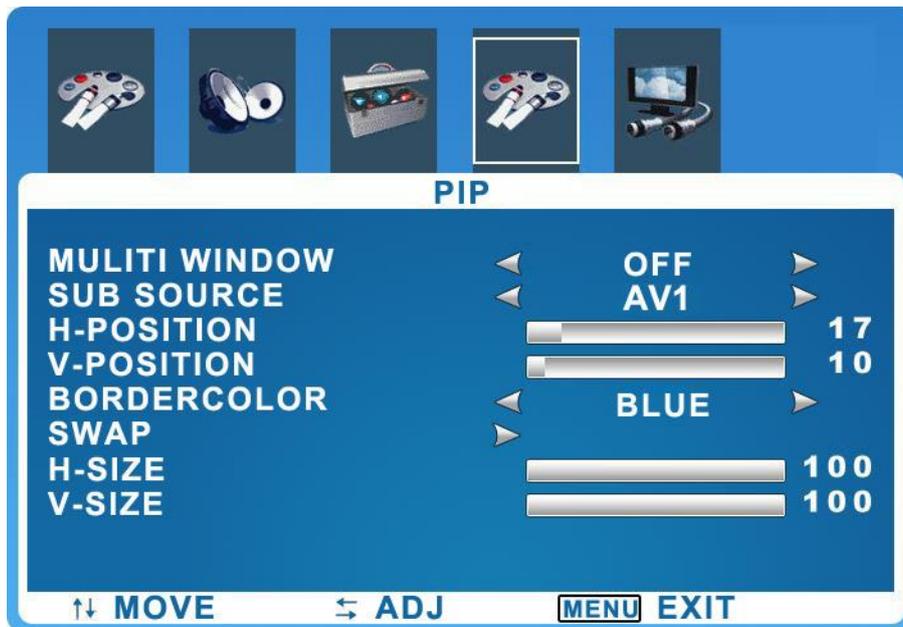


Figure 4- 12

PIP setup is same with setup under *video mode*, please refer to Chapter 4.1.5.

4.3.5 Source Setup

Press *menu* button, select *source* via arrow key ► on remote control to enter source setup page. Please see Figure 4- 13.



Figure 4- 13

Source setup is same with setup under *video mode*, please refer to Chapter 4.1.6.

Chapter 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 5- 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. 6. The fuse has melted down or not.
2) Blue screen (no signal)	1. Check signal cable connection is good or not. 2. Check there is signal source output or not. 3. Check signal cable is in good condition 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 there is battery in the remote control and has been well installed. 2. Check the infrared receiver is in good condition.
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. 3. Check the device is working overload or not.

Chart 5- 1

Chapter 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 6- 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

LCD Monitor Manual 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.**