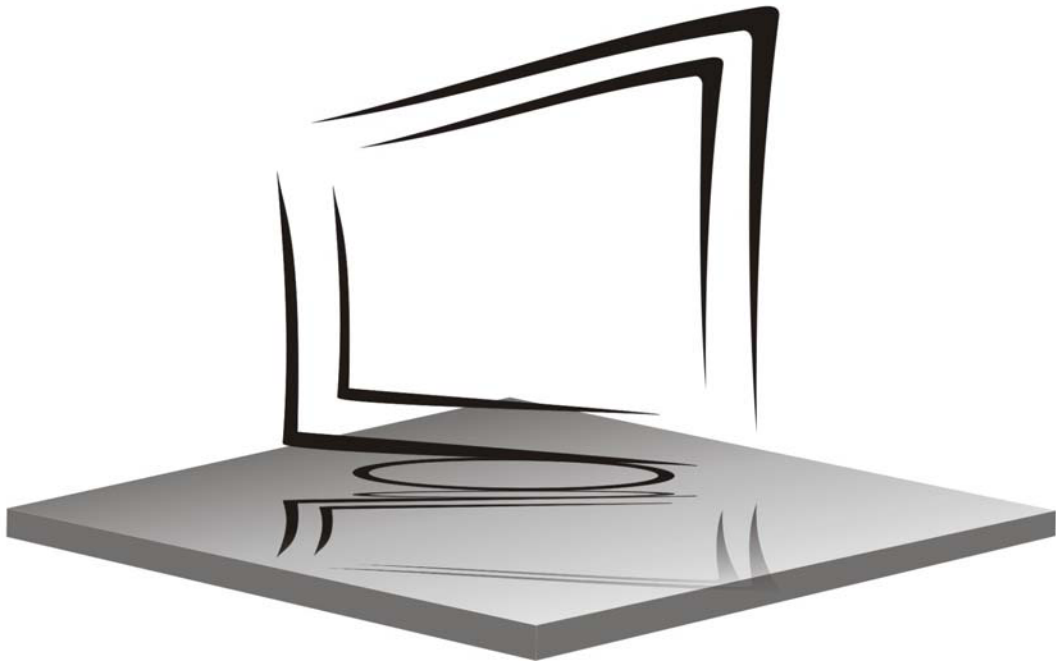


# USER'S MANUAL

## 22/24" LED TV SET



**MODEL: LT-2204AB**

**MODEL: LT-2402AB**

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## Contents

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## Introduction

Thank you very much for your purchase of our product of LCD TV. It serves as a normal colour TV and PC monitor. To enjoy your set to the full from the very beginning, read this manual carefully and keep it handy for ready reference.

### INSTALLATION

- ① Locate the receiver in the room where direct light does not strike the screen. Total darkness or a reflection on the picture screen can cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.
- ② Allow enough space between the receiver and the wall to permit ventilation.
- ③ Avoid excessively warm locations to prevent possible damage to the cabinet or premature component failure.
- ④ This TV receiver can be connected to AC180-240V~ 50/60HZ
- ⑤ Do not install the receiver in a location near heat sources such as radiator, air ducts, direct sunlight, or in a place somewhere like close compartment and close area. Do not cover the ventilation openings when using the set.
- ⑥ The indicator light will last 3 to 4 seconds to go out after cutting off the electricity, during this period, you cannot repower it on until the indicator light goes out, thanks a lot for your attention!

# Warning



CAUTION  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



CAUTION: TO AVOID THE RISK OF ELECTRIC SHOCK.  
DO NOT REMOVE COVER (OR BACK).  
NO USER- SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to avoid the risk of electric shock, do not disassemble this equipment by anyone except a qualified service personnel.



This symbol is intended to alert the user to the presence of important operation and maintenance instructions in the literature accompanying the equipment.

## Caution



**Caution**

High voltages are used in the operation of this product. Do not remove the back cabinet from your set. Refer servicing to qualified service personnel.

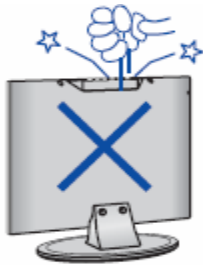
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**Caution**

To prevent fire or electrical shock hazard, Do not expose the main unit to moisture.

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**Caution**

Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.

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**Caution**

Avoid exposing the main unit to direct sunlight and other source of the heat. Do not stand the television receiver directly on other products which give off heat. E. g. video cassette players, Audio amplifiers . Do not block the ventilation holes in the back cover. Ventilation is essential to prevent failure of electrical component. Do not squash power supply cord under the main unit.

## Caution



### Caution

Never stand on, lean on, push suddenly the product or its stand. You should pay special attention to children.

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### Caution

Do not place the main unit on an unstable cart stand, shelf or table. Serious injury to an individual, and damage to the television, may result if it should fall.

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### Caution

When the product is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.

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### Caution

The LED panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LED panel breaks.

## Main unit description

### Control Panel Key Function

VOL- : Volume down.

VOL+ : Volume up.

CH- : TV channel down.

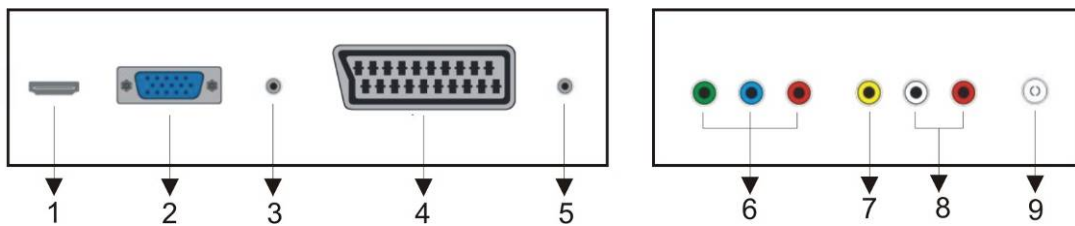
CH+ : TV channel up.

MENU : Press to select the main menu.

TV/AV : Select the input signal.

POWER : Switch on when at standby mode or enter the standby mode.

### TV Terminal Connections



1. HDMI input terminal.
2. VGA input terminal of simulation signal of PC.
3. PC AUDIO terminal.
4. SCART input terminal.
5. HEADPHONE output terminal.
6. Component input terminal.
7. Video input terminal.
8. AUDIO input terminal.
9. Antenna/close circuit TV network port

### Power Input Configuration

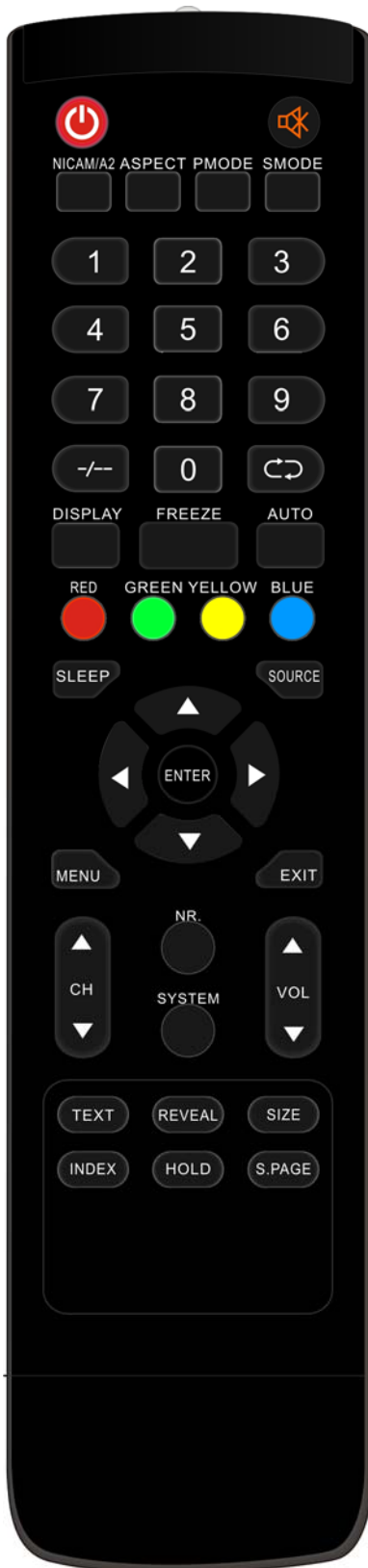


**AC**



**SWITCH**

## Remote control



enter the text display mode

**⏻**: Press this button to switch on the TV when at standby mode or enter standby mode.

**🔇**: Press this button to mute or restore sound.

**NICAM/A2**: In the TV condition, press this key to select the stereo mode.

**ASPECT**: Press to select the different picture size.

**PMODE**: Select picture mode.

**SMODE**: Select sound mode.

**0-9**: Select and switch to a channel using 0 - 9.

**-/--**: Switch the program digit.

**↔**: Switch back and front between the current and previous channels.

**DISPLAY**: Display TV information on the LED TV screen such as channel and channel label.

**FREEZE**: This button is not available.

**AUTO**: Adjust the picture automatically in pc mode.

**RED, GREEN, YELLOW, BLUE**: Correspond to the different colored subjects.

**SLEEP**: Set the sleep timer.

**SOURCE**: Press to change signal source.

**ENTER**: Enter the selected option or execute the selected operation.

**MENU**: Press this button to enter the main menu for various optional adjustable setting.

**EXIT**: Exit the OSD (On-screen display).

**CH▲/CH▼**: Change the channel up and down.

**VOL▲/VOL▼**: Adjust the volume.

**NR**: This button is not available.

**SYSTEM**: Press to select the sound system.

**TEXT**: Press to enter the Teletext mode.

(Used for European region only)

**REVEAL**: Press this button to reveal the hidden information in Teletext page. Press again to hide the information.

**SIZE**: Display the top, bottom or all of page to read easily in Teletext mode.

**INDEX**: Press this button to go to the index page.

**HOLD**: Freeze a multi-page passage on screen in Teletext mode.

**S.PAGE**: Carry out the function of SUBCODE in the text while

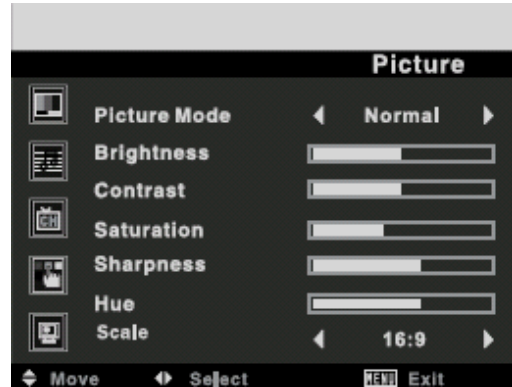


## OSD basic adjustment

### Picture

You can select the type of picture, which best corresponds to your viewing.

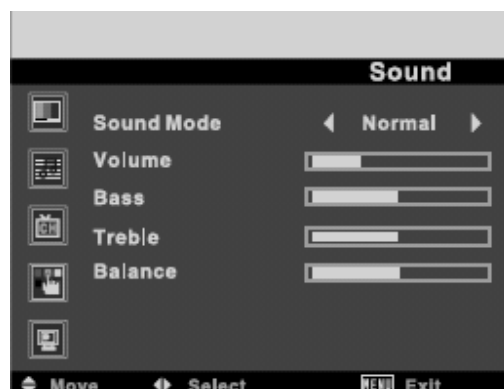
1. Press the “MENU” button to enter the OSD menu. Then press “▲/▼” button to select the “Picture” menu. Enter the “Picture” menu by pressing “▶” button.
  2. Press “▲/▼” button to select “Picture Mode” and press the “◀/▶” button to select the picture mode.
  3. Press “▲/▼” button to select “Brightness” and press the “◀/▶” button to enter brightness adjustment menu to adjust brightness.
  4. Press “▲/▼” button to select “Contrast” and press the “◀/▶” button to enter contrast adjustment menu to adjust contrast.
  5. Press “▲/▼” button to select “Saturation” and press the “◀/▶” button to enter saturation adjustment menu to adjust saturation.
  6. Press “▲/▼” button to select “Sharpness” and press the “◀/▶” button to enter sharpness adjustment menu to adjust sharpness.
  7. Press “▲/▼” button to select “Hue” and press the “◀/▶” button to enter hue adjustment menu to adjust hue.
- Note: The item hue is only for NTSC
8. Press “▲/▼” button to select “Scale” and press the “◀/▶” button to select the scale mode.
  9. Press the “Menu” button to return to upper-menu.



## Sound

You can select the type of sound, which best corresponds to your listening.

1. Press the “MENU” button to enter the OSD menu. Then press “▲/▼” button to select the “Sound” menu. Enter the “Sound” menu by pressing “▶” button.
2. Press “▲/▼” button to select “Sound Mode” and press the “◀/▶” button to select the sound mode.



3. Press “▲/▼” button to select “Volume” and press the “◀/▶” button to enter volume adjustment menu to adjust volume.
4. Press “▲/▼” button to select “Bass” and press the “◀/▶” button to enter bass adjustment menu to adjust bass.
5. Press “▲/▼” button to select “Treble” and press the “◀/▶” button to enter treble adjustment menu to adjust treble.
6. Press “▲/▼” button to select “Balance” and press the “◀/▶” button to enter balance adjustment menu to adjust balance.
7. Press the “Menu” button to return to upper-menu.

## Channel

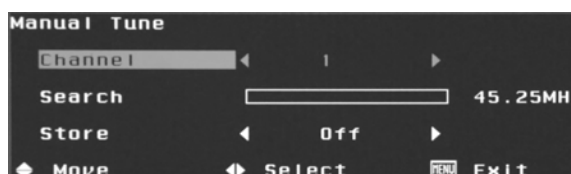
You can make the desired adjustment in the TV mode.

1. Press “▲/▼” button to select “Auto Tune” and press the “▶” button to do auto search. Then press “MENU” or “EXIT” button to exit.



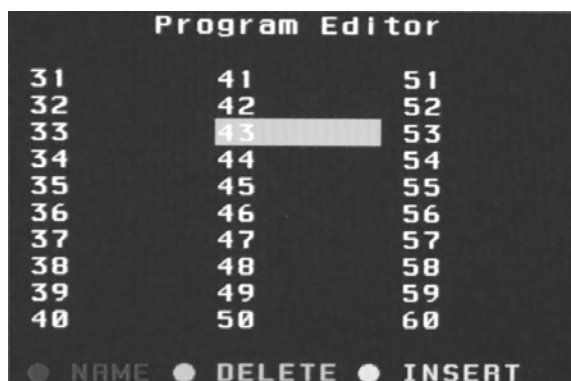
2. Press “▲/▼” button to select “Manual Tune” and press the “▶” button to enter manual tune adjustment menu to do manual tuning,

3. Press “▲/▼” button to select “Fine Tune” and press the “◀/▶” button to enter fine tune adjustment menu to adjust for best tuning.



4. Press “▲/▼” button to select “Skip” and press the “◀/▶” button to select skip the channel on or off.

5. Press “▲/▼” button to select “Program Editor” item and enter the “Program Editor” menu by pressing “▶” button.



- a. NAME: Use the “▲ ” “▼” “◀” “▶” buttons to choose the channel which you want to name. Press the “red” button to enter the operation. Then use the “◀” “▶” buttons to select the edited digit and use the “▲ ” “▼” buttons to select the character. Then press the “red” button again to confirm the name and press the “green” button to cancel this operation.

- b. Delete: Use the “▲ ” “▼” “◀” “▶” buttons to choose the channel which you wanted to delete. Press the “green” button, and then the channel will be deleted.

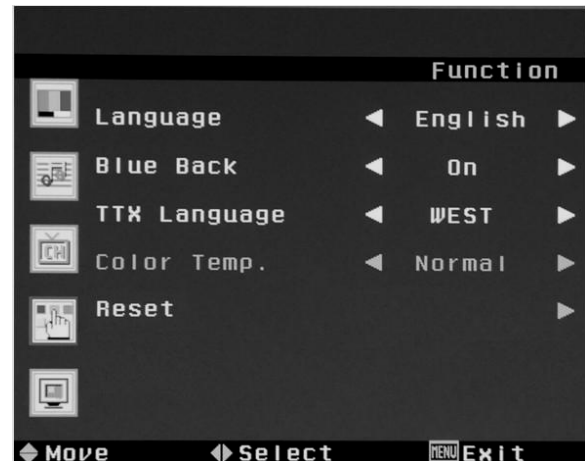
- c. Insert : Use the “▲ ” “▼” “◀” “▶” buttons to choose the channel which you want to insert. Press the “yellow” button to enter the operation. Then use the “▲ ” “▼” “◀” “▶” buttons to choose the channel which you want to insert with. Press the “red” button to confirm the insert operation and press the “green” button to cancel this operation.

6. Press “▲/▼” button to select “Sound .SYS” menu and press the “◀/▶” button select the sound mode such as BG / DK / I

7. Press the “Menu” button to return to upper-menu.

## **Function**

1. Press the “MENU” button to enter the OSD menu. Then press “▲/▼” button to select the “Function” menu. Enter the “Function” menu by pressing “▶” button.

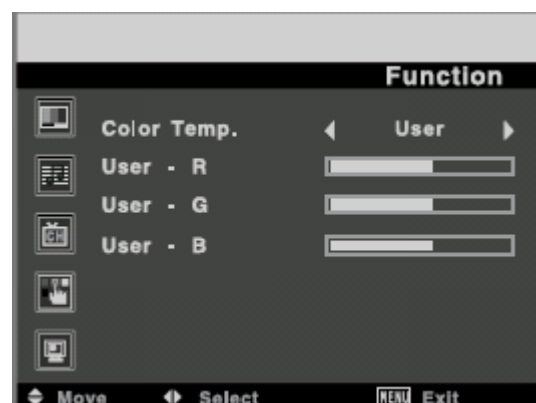


2. Press “▲/▼” button to select “Language” menu and press the “◀/▶” button to select the OSD language which you desire.

3. Press “▲/▼” button to select “Blue Back” and press the “◀/▶” button to select the blue background on or off.

4. Press “▲/▼” button to select “TTX Language” and press the “◀/▶” button to select West, East, Russian, etc.

5. Press “▲/▼” button to select “Color Temp” menu and press the “◀/▶” button to select the color temp. Press the “▲/▼” button to select one of “User-R”, “User-G”, “User-B” and press the “◀/▶” button to enter sub-menu to adjust user color temp.

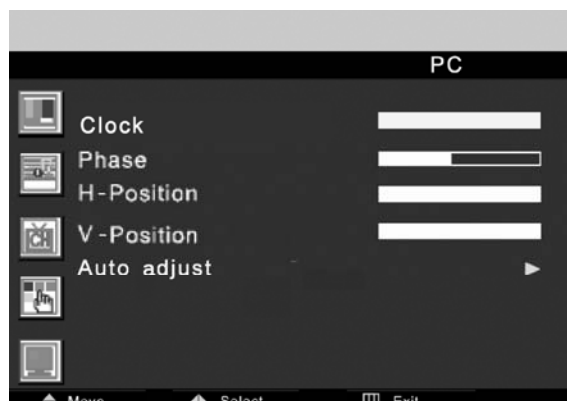


6. Press “▲/▼” button to select “Reset” and press the “▶” button to do reset function.

7. Press the “Menu” button to return to upper-menu.

## PC

1. Press the “MENU” button to enter the OSD menu. Then press “▲/▼” button to select the “PC” menu. Enter the “PC” menu by pressing “▶” button.
2. Press “▲/▼” button to select “Clock” and press the “◀/▶” button to enter clock adjustment menu to adjust clock.



3. Press “▲/▼” button to select “Phase” and press the “◀/▶” button to enter phase adjustment menu to adjust phase.
4. Press “▲/▼” button to select “H Position” menu and press the “◀/▶” button to enter H Position adjustment menu to adjust H Position.
5. Press “▲/▼” button to select “V Position” and press the “◀/▶” button to enter V Position adjustment menu to adjust V Position.
6. Press “▲/▼” button to select “Auto Adjust” menu and press the “▶” button to do auto adjustment.
7. Press the “Menu” button to return to upper-menu.

## Specifications

### RGB INPUT

Model	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(HZ)
DOS	720x400	31.5	70
VGA	640x480	31.5	60
SVGA	800x600	37.9	60
XGA	1024x768	48.4	60
WXGA	1920*1080	67.5	60

### HDMI INPUT

Model	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (HZ)
VGA	640 x 480	31.47	59.94
480i	720 x480i	15.73	59.94/60
576i	720 x 576i	15.63	50
480p	720 x480p	31.47	59.94/60
576p	720 x 576p	31.26	50
720p	1280 x 720p	37.50	50
		44.96	59.94/60
1080i	1920 x 1080i	28.13	50
		33.75	59.94/60
1080p	1920 x 1080p	56.25	50
		67.5	59.94/60

## COMPONENT VIDEO (YPbPr) INPUT

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (HZ)
480i	720 x 480i	15.73	59.94/60
576i	720 x 576i	15.63	50
480p	720 x 480p	31.47	59.94/60
576p	720 x 576p	31.26	50
720p	1280 x 720p	37.50 44.96	50 59.94/60
1080i	1920 x 1080i	28.13 33.75	50 59.94/60
1080p	1920 x 1080p	56.25 67.5	50 59.94/60

## Trouble Shooting

Before consulting service personnel, check the following chart for a possible cause of the trouble you are experiencing and for a solution.

PROBLEM	SOLUTION
TV will not turn on	<ul style="list-style-type: none"> <li>● Make sure the power cord is plugged in.</li> <li>● The batteries in the remote control may be exhausted replace the batteries.</li> </ul>
No picture, no sound	<ul style="list-style-type: none"> <li>● Check the interface cable between TV and antenna/cable TV.</li> <li>● Press the power button on the remote.</li> <li>● Press the SOURCE button the remote, then press the “▲/▼” button repeatedly to select the TV source.</li> </ul>
Poor picture, sound OK	<ul style="list-style-type: none"> <li>● Check the interface cable between TV and antenna/cable TV.</li> <li>● Try another channel, the station may have broadcast difficulties.</li> <li>● Adjust the brightness/contrast in the Video menu.</li> </ul>
Audio noise	<ul style="list-style-type: none"> <li>● Move any infrared equipment away from the TV.</li> </ul>

The TFT LED panel uses a panel consisting of sub pixels which requires sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.



## Disposal of used electrical and electronic equipment

The meaning of the symbol on the material, its accessory or packaging indicates that this product shall not be treated as household waste.

Please, dispose of this equipment at your applicable collection point for the recycling of electrical and electronic equipments waste. In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste.

For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

For more information and warranty conditions, please visit: [www.akai.com.ro](http://www.akai.com.ro)

