

***AMTC***

**LED TV**

**USER MANUAL  
MHAV4960Y-16031**

Please read this User Manual carefully to ensure use of this product and keep this manual for future reference

## Contents

Safety and warnings.....	2-3
Introduction.....	4
Base stand assembly.....	5
<b>Wall Mount Installation Instructions.....</b>	<b>6</b>
Installation.....	7-10
Remote Control.....	11
Operation.....	12-14
Troubleshooting.....	15

### IMPORTANT SAFETY INSTRUCTION

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, install in accordance with the instructions.
- 8) Do not install near any heat sources such as radiations, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protected the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus during lighting storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) Mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- 15) The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloth, curtains, etc.
- 16) No naked flame sources, such as lighted candles, should be placed on the apparatus.
- 17) Attention should be drawn to the environmental aspects of battery disposal.
- 18) The use of apparatus in moderate climate.
- 19) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Warning: To avoid any injury caused by lean of the product, please always ensure the whole product was placed within the table surface in horizontal.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



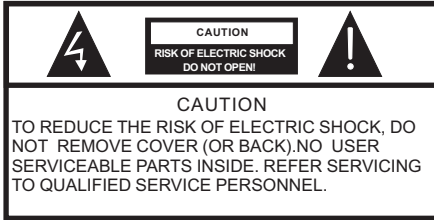
### WARNING


Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple


precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.



 The symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.

 The symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

### WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

### WARNING:

The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.



This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

**Step one:** Use the expansion bolts(4\*36PWA) to fix the wall mount brackets into the wall

**Step Two: Fix the wall mount screws (M4x8mm/4pcs) into the rear side of the LCD TV, using the tongue of 8kgf.cm.**

\* **The TV appearance subject to material object.**

**Step Three: Put the LCD TV with wall mount screws onto the wall mount brackets.**

**Warning: the angle between the TV and wall must not be bigger than 3°.**

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

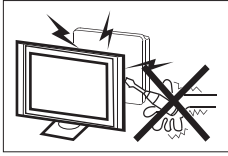
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance

with the instructions, may cause harmful interference to radio communications.

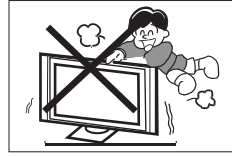
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- o Reorient or relocate the receiving antenna.
  - o Increase the separation between the equipment and receiver.
  - o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

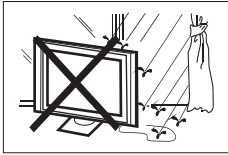
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.



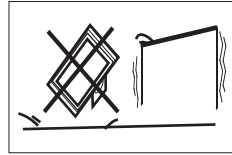
High voltages are used in the operation of this television receiver. Do not open the cabinet. Refer servicing to qualified service personnel.



Never stand on, lean on, or suddenly push the television or its stand. You should pay special attention to children. Serious injury may result if it falls.



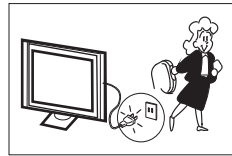
To prevent fire or electrical shock hazard, do not expose the television receiver to rain or moisture.



Do not place your television on an unstable cart, stand, shelf or table. Serious injury to an individual and/or damage to the television may result if it falls.



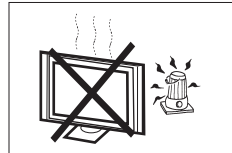
Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.



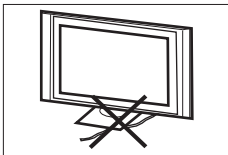
When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.



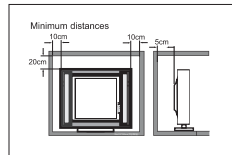
Do not block the ventilation holes on the back cover of the TV. Adequate ventilation is essential to prevent failure of electrical components.



Avoid exposing the television receiver to direct sunlight and other sources of heat. Do not stand the television receiver directly on other products which give off heat, e.g. video cassette players and audio amplifiers. Do not place naked flame sources, such as lighted candles on or near the television.



Do not trap the power supply cord under the television receiver's stand.



If the television is to be built into a compartment or similar enclosure, the minimum distances must be maintained. Heat build-up can reduce the life of your television, and can also be dangerous.

## Main features

- Integrated ATSC TV tuner for HDTV broadcast reception
- High brightness provides a vivid and brilliant picture
- Deeper blacks and brighter whites with high contrast
- Wide Screen aspect ratio (16:9) for a complete home theater experience
- HDMI input for true digital connection
- VGA port for connection to PC
- Built-in stereo speaker system
- Full-function Remote Control

## Accessories

Power cable.....	1
Infrared Remote Control.....	1
User's Manual .....	1
Battery(AAA).....	2

## Main Specifications

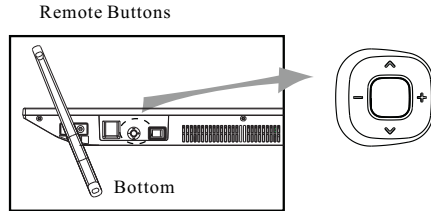
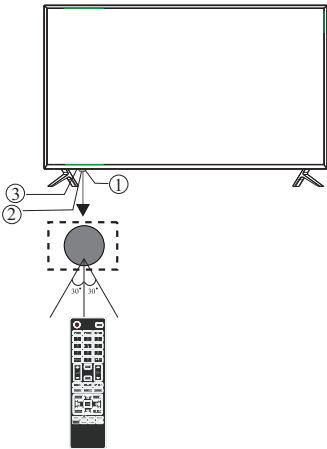
Viewing Picture Size (diagonal)	49 "
Resolution:	1366 x 768
Power supply	AC 100-240V 50/60Hz
Power consumption	78W
Audio Output Power (THD ≤ 7%):	2x8W
Aspect Ratio:	16:9
TV System:	ATSC Digital system and NTSC Analog system
Video Signal System:	NTSC
Receiving Channel:	Cable :1-135/ Air: 2-69 (ATV&DTV)
High-Definition Multimedia Interface (HDMI) Input	x 3 (1 HDMI input is MHL enabled)
Component (YPbPr) Input	x 1
Composite Video Input	x 1
Analog RGB (VGA) Input	x 1
Audio Input	x 1
Headphone Output	x 1
Optical Output	x 1
USB Input	x 1
Horizontal definition (TV line)	Composite Video Input ≥350 Video Input ≥400 Component (YPbPr) ≥400



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

## Front panel

## Panel keys



- “←” VOL- and move left
- “→” VOL+ and move right
- “↑” CH- and move down
- “↓” CH+ and move up

## KEYBOARD

- 1: Remote control sensor.
- 2: Indicator LED: RED ● STANDBY.
- 3: Key board

## REAR Connections



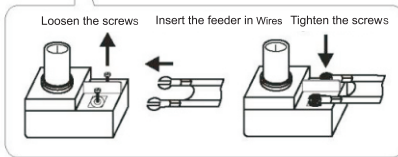
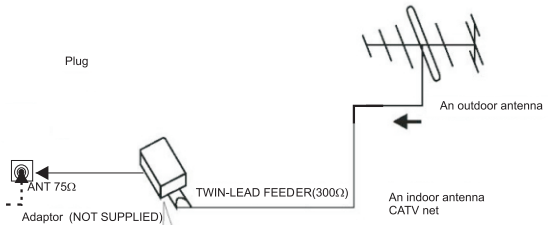
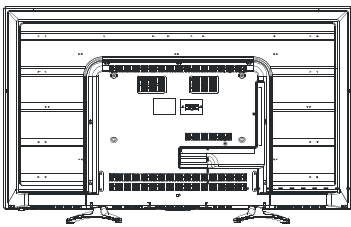
All the terminals are (from left to right):  
 RESET, HEADPHONE, HDMI1, HDMI2, HAMI3, RF, OPTICAL, USB

## SIDE Connections

All the terminals are (from left to right):  
 VIDEO, L, R

Note: When HDMI has an input signal coming from a DVI source then the audio input signal must be connected to the PC audio input.

**ANTENNA**



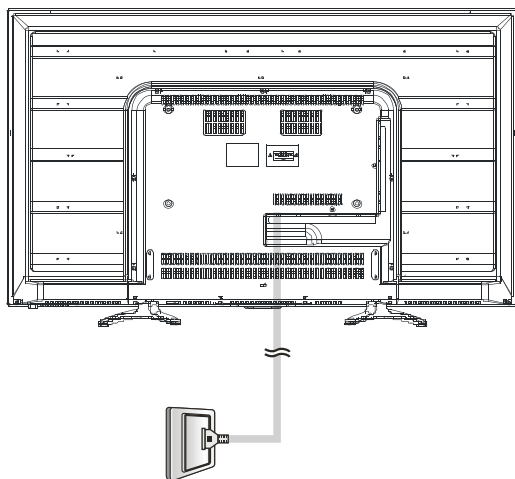
Note:  
 Aerial connections: F (female).  
 Input impedance: 75 Ω unbalanced.

**PC**

**STEPS:**

- Be sure both the TV and computer are powered off.
1. Connect a VGA and audio cable.
  2. Connect the power cord.
  3. Turn on the TV, switch to PC mode.
  4. Turn on the PC.





**PC**

**PRESET MODE**

	<b>RESOLUTION</b>	<b>V.Freq.(Hz)</b>	<b>H.Freq.(KHz)</b>
1	640*480	60	31.47
2	800*600	60	37.88
3	1024*768	60	48.36
4	1280*1024	60	63.98
5	1366*768	60	47.71

**AV EQUIPMENT**

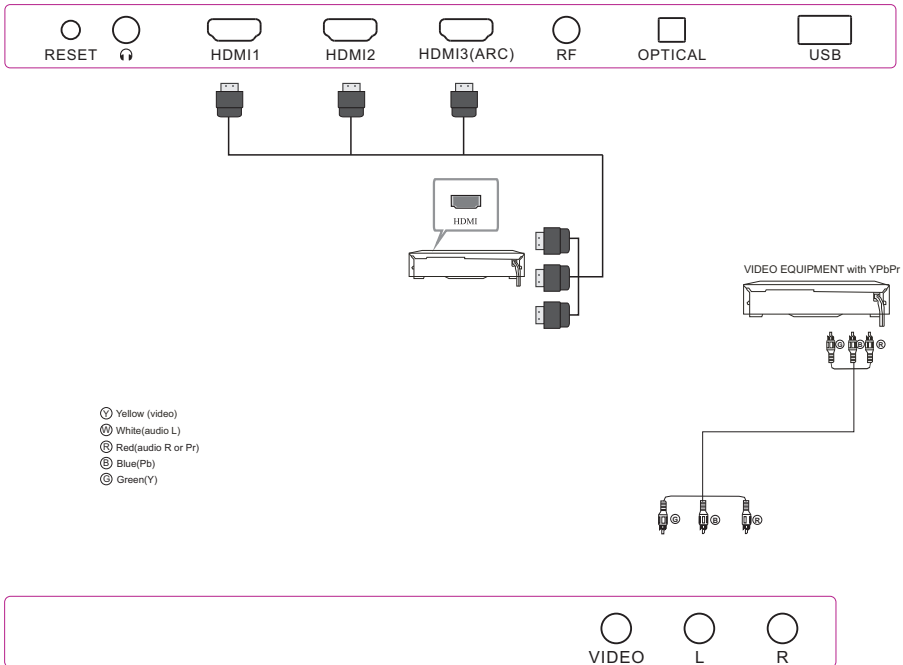
There are three HDMI ports located on the back of your TV. You can connect a Blu-ray player, DVD player, or other video equipment through these ports.

The **HDMI1** port is MHL enabled. You can connect MHL devices, such as the compatible mobile phones and tablets.

NOTE: a USB to HDMI cable is required to connect a mobile phone or tablet to the TV. Please check the documentation of your device.

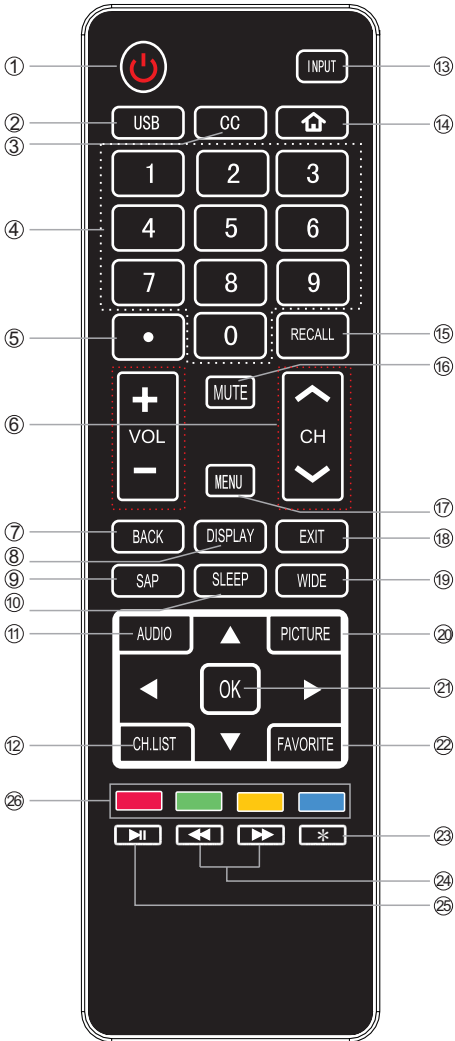
There is one component (Y, Pb, Pr) and video input located on your TV. You can connect a VCR, cable box, or other video equipment to these jacks.

Please see the diagram below. You may also need to refer to the owner's manual of the device that you are trying to connect.



The television's inputs can be connected to the following types of equipment: VCR, multi disc player, DVD, camcorder, video game or stereo system, etc.....

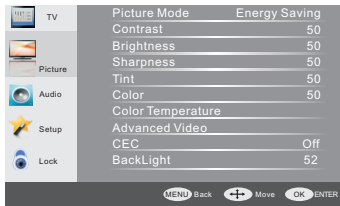
YPbPr can support these video formats:480i,576i,480p,576p,720p,1080i, 1080p.



1. Press to turn on and off the TV.
2. USB: Press to launch the USB multimedia mode.
3. Select a closed caption option.
4. Press to input a channel.
5. Press to select the digital sub-channels. For example, to enter "54-3", press "54", "●", and then "3".
6. Press CH<sup>^</sup> or CH<sup>v</sup> to go to the next or previous channel in the channel list. Press VOL+ or VOL- to increase or decrease the volume.
7. Return to the previous menu.
8. Press to display the TV status information.
9. Select MONO, STEREO, SAP in NTSC (analog TV) system.
10. Press to cycle through the sleep timer options.
11. Press to cycle through the different sound settings.
12. Open the channel list in TV mode.
13. Show the input source menu.
14. Switch to the **HDMI1/MHL** input.
15. Press to go to the last viewed channel.
16. Switches the TV sound on or off.
17. Press to open the on-screen display (OSD) menu.
18. Exit the on-screen display.
19. Press to change the aspect ratio.
20. Press to cycle through the available picture modes.
21. Press to confirm selections in an on-screen menu or to open a submenu.
22. Open the favorite channel list in TV mode.
23. Reserved.
24. Reverse/Fast forward: Use these buttons to control music/photo playback.
25. PLAY/PAUSE: Press to play/pause music or photo slideshow in USB mode.
26. Reserved.

## 1. PICTURE MENU / BACKLIGHT

In this menu, you can adjust the picture options, such as contrast, brightness, etc. Press ▼▲ to select, press OK to adjust.



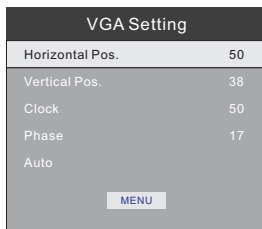
Note:

- 1) If you want to adjust contrast, brightness, color, and sharpness, backlight the picture mode will be set to user.
- 2) Energy Saving picture mode is the default setting, if you select some other options, the power consumption may change.
- 3) If you want to increase backlight, you can press ▼▲ to select the backlight, press ◀▶ to adjust, also the power consumption may increase.

### 1.1 VGA Setting

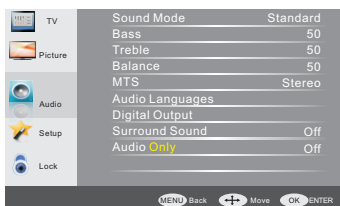
When a PC is connected, you can adjust the VGA settings in the **Advanced Video**.

- 1) H-Pos: Adjust the horizontal position of the screen.
- 2) V-Pos: Adjust the vertical position of the screen.
- 3) Clock: Fine tune the screen width.
- 4) Phase: Fine tune the phase of the screen. Usually you don't adjust this item.
- 5) Auto: Auto adjust to fit the screen.



## 2. AUDIO menu

In this menu, you can adjust the sound options. Press ▼▲ to select, press OK to adjust.



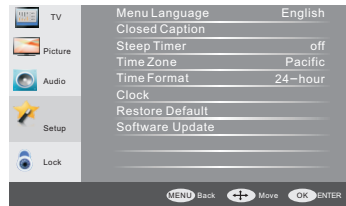
Note:

- 1) Audio language is available in ATSC/TV mode only.
- 2) Auto volume is available only when the input signal volume is too large or there is distortion.

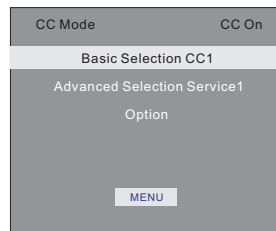
## 3. SETUP menu

In this menu, you can adjust the Menu language, Closed Caption, adjust the sleep timer, time zone, Restore Default, etc.

Press ▼▲ to select, press OK to adjust.



### 3.1 Closed Caption



- 1) CC Mode: Switch the closed caption mode.
- 2) Advanced selection: only available in ATSC.
- 3) Option: Used to edit the CC font.

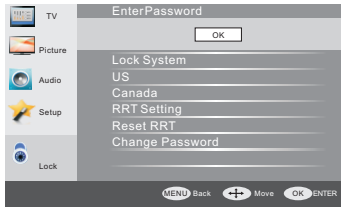
Note:

- 1) Restore Default: Restore Default will clear all the saved channels and reset all of the settings to the factory default values.

**4. LOCK MENU**

In this menu, you can change the password and adjust the vchip settings.

Enter the password, to enter the lock menu. The factory default password is 0000.



**4.1 Change Password**

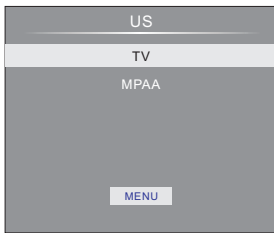
- 1) **Enter** old password: Input the old password.
- 2) **Enter** new password: Input the new password.
- 3) **Confirm** password: Input the new password again.

**4.2 Lock System**

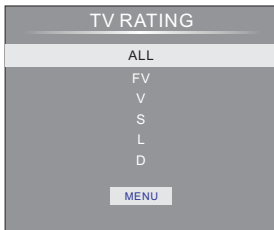
When the System Lock switch is ON, the options listed below can be adjusted.

**4.3 US**

Press **OK** to display the following screen.



- 1) **TV**: Press **OK** display the following screen.



And use the **OK** key to lock/unlock Parental Controls .

- 2) **MPAA**: Switching the movie-rating control level; N/A, G, PG, PG-13, R, NC-17, X.

Rating	Description	
Age	G	General audiences, All Ages admitted
	PG	Parental Guidance suggested. Some material may not be Suitable for children.
	PG-13	Parents strongly cautioned. Some material .may be Inappropriate for children under 13.
	R	Restrict. Under 17 requires accompanying parent or adult guardian(age varies in some jurisdictions)
	NC-17	No one 17 and under admitted.
	X	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

**4.4 Canada**

Press **OK**, to display the following screen.



- 1) **Canada English**: Switching the English rating control level: C, C8+, G, PG, 14+, 18+.

Rating	Description
C	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.
C8+	Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.
G	General: Considered acceptable for all age groups, Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.
PG	Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.
14+	Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline But it must be integral to the development of plot or character. Language usage could be profane and nudity, present within the context of theme.
18+	Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of secretary and nudity.

**2) Canada French: Switching the French-rating control level: G, 8ANS+, 13 ANS+, 16ANS+, 18ANS+.**

Rating	Description
G	General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
8ans+	General but inadvisable for young children :May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with paren.
13ans+	Over 13 years: Could contain scenes of frequent violent scenes and in tense violence.
16ans+	Over 16 years: Could contain frequent violent scenes and violence.
18ans+	Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.

**4.5 RRT setting**

In ATSC digital TV mode, it can be adjusted

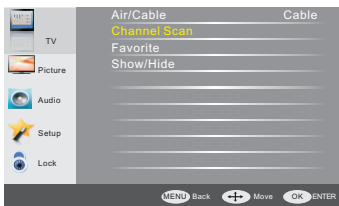
**4.6 Reset RRT:**

Press **OK** to reset the RRT settings to the factory default values.

**5. TV MENU**

In this menu, you can adjust digital and analog TV Channels.

Press **▲▼** to select, press **OK** to adjust.



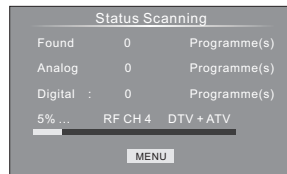
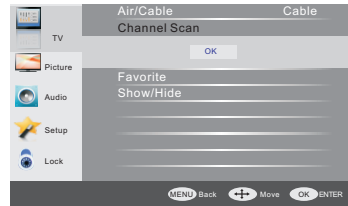
**5.1 Air/Cable:**

Select Air TV signal or cable TV signal.

**5.2 Channel Scan:**

If it's the first time you use the TV, you should scan all the TV channels first.

Press **OK** to confirm and to display the following screen.



**5.3 Favorite:**

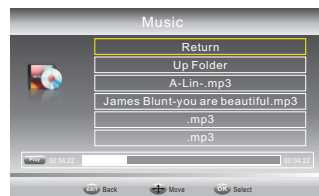
Press **OK** to choose/delete favorite channels.













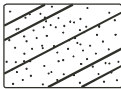



**5.4 Show/Hide**

Press **OK** to display/ hide the current channel.

**6. Multimedia**

You can display the Music and Photo files by using the USB port that is located on the rear panel:



Trouble phenomenon Symptom		Inspection/ Check
Picture	Audio	
 <p>Snow</p>	 <p>Noise</p>	antenna position, direction or connection
 <p>Ghost</p>	 <p>Normal audio</p>	antenna position, direction or connection
 <p>Interference</p>	 <p>Noise</p>	microwave, electronic equipment, car/motorcycle, fluorescent light
 <p>Normal Picture</p>	 <p>Mute</p>	Volume (check if mute is activated or if the audio system connections are not correct)
 <p>No picture</p>	 <p>Mute</p>	Power cord is not inserted Contrast and brightness/volume setup Press standby key on the remote control
 <p>No color</p>	 <p>Normal audio</p>	Color control Component (Y Pb Pr) connections
 <p>Picture breaking up</p>	 <p>Normal audio or weak</p>	Retune channel
 <p>No color</p>	 <p>Noise</p>	TV system

The LCD TV panel is built with very high precision technology giving you fine picture details in vibrant color. Occasionally, a few non-active pixels may appear on the screen as a fixed point of red, green, blue, black or white. Please note this does not affect the performance of the product.