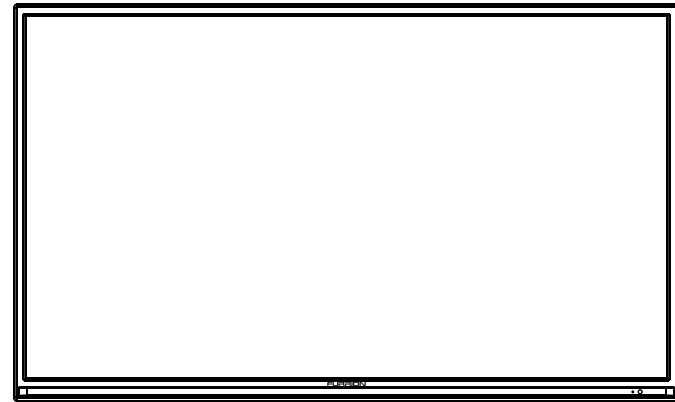


# 39" LED HDTV



Model: FEFS39D8A

## Safety Information

### IMPORTANT SAFETY INSTRUCTIONS

Read these instructions.  
Keep these instructions.  
Heed all warnings.  
Follow all instructions.  
Do not use this apparatus near water.  
Clean only with dry cloth.  
Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.  
Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.  
Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.  
Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.  
Only use attachments/accessories specified by the manufacturer.  
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.



Unplug the apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified 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 has been exposed to rain or moisture, does not operate normally, or has been dropped.

**CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

**WARNING :** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.

**WARNING:** The mains plug is used as disconnect device, the disconnect device shall remain readily operable.



- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.



This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

## Important Safety Precautions

### Safety

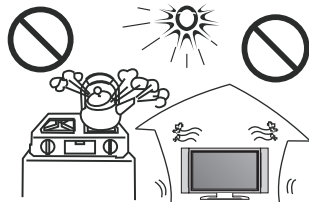
Please, immediately pull out the AC power plug from adapter if there is an abnormal sound or smell or the LED TV has sound but no picture, and contact after sales support.



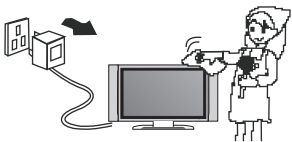
The LED TV should be kept free from rain, moisture and dust to prevent electrical shock and short circuits. Do not cover the ventilation openings with table clothes, curtains, newspapers, etc.



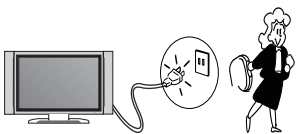
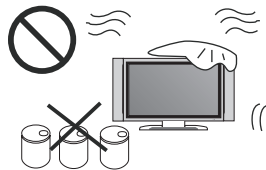
The LED TV should be kept from high temperature heating sources or direct sunlight. Good ventilation is required. Allow 10 cm. between the LED TV and other appliances or built-in cabinet walls.



When you wipe the front cabinet, please make sure the power plug is pulled out and use a soft, dry, lint-free cloth and handle it with care. Do not repeatedly wipe the panel, nor scrape, tap or strike the panel with a hard object.



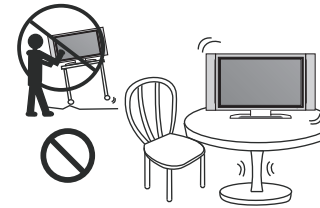
Do not wipe the LED TV with any petrol, chemical or alcohol based solvents as it will lead to product damage of the panel and cabinet.



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. The MAINS plug or an appliance coupler is used as the disconnect device. The disconnect device shall remain readily operable.

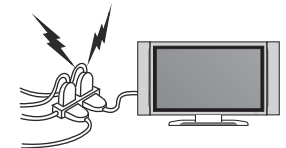
## Important Safety Precautions

### Safety



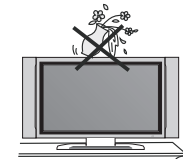
Do not place the LED TV on an unstable surface.

Do not place the power cord or other cables across a walkway in case it is trampled on. Do not overload the power cord or power socket. When the power plug is used to disconnect and connect the device, it should easily into the power source.



Do not disassemble the back cover, as it contains high voltages inside and will cause electric shock. Only qualified professionals should conduct internal adjustments, maintenance, and checks.

The TV set should not be subjected to water droplets, vapor, or splash. This equipment should not be placed on objects filled with liquids. Do not place flame sources, such as lit candles, on or near the LED TV. Please, pull out the power plug and contact after sales support if there are abnormal objects or water in the TV.



Pull out the power cord and antenna cable during electrical storms so the LED TV is not damaged by electrical surges. Keep all people away from the antenna cable during electrical storms.

## Table of Contents

Introduction	
Specifications	4
Features	4
Accessories	5
General Description	5-8
Overview of front and side panel	5
Overview of back panel	6
Install LED SET	7
Overview of remote control	8
Installing Batteries in the Remote Control	9
External Connection	10-14
Connecting VCR	10
Furrion Wallmount Stereo	11
Connecting DVD Player/ Set-Top Box	12
Connecting DVD Player/Set-Top Box via HDMI	13
Connecting PC	14
Supporting signals	14
OSD Menu Operations	15-19
BASIC OPERATION	15
CHANNEL	15
PICTURE	16
AUDIO	16
TIME	17
SETUP	17-18
LOCK	18-19
USB	20-22
USB Operation	20-22
Troubleshooting	23
Picture defects and the reason	24

## Introduction

### Specifications

Display screen type	Color active matrix LED display
Model	FEFS39D8A
The maximum resolution	1920X1080
Image control	Fine digital control
Power supply	AC 100-240V 50/60Hz
TV receive system	NTSC System, ATSC System
Frequency range	Antenna: 2~69; Cable: 1~135 (Analog: 1-125, Digital: 1-135)
Video IN	NTSC3.58
Antenna input impedance	75Ω (Unbalance)
Sound output	2 x 8 W
Power supply for remote controller	DC 3V (Two AAA size batteries)
Standard Power Consumption	70 W
Dimensions (LXWXH)	35.0 x 3.6 x 20.9 inch
Operation environment temperature	0℃-35℃

#### Note:

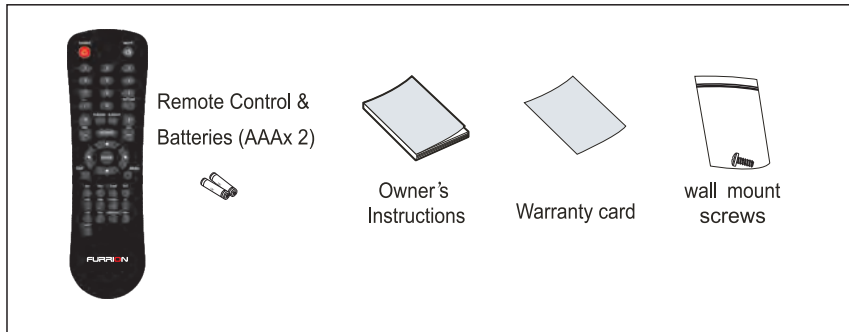
Design and specification modification maybe made at any time without prior notice; all data and dimensions are approximations.

### Features

- TV adopts TFT LED display screen
- HDTV Compatible( 480p,720p, 1080i, 1080p)
- Support American TV Standard 8VSB/Free 64/256QAM,NTSC System, ATSC System
- Connect to computer directly to realize TV/monitor combo.
- Zero X radiation complies to green environment protection requirement
- Advanced Chroma Processing
- Closed captioning/PARENTAL LOCK
- SAP/STEREO/MONO; ATSC.
- HDMI input

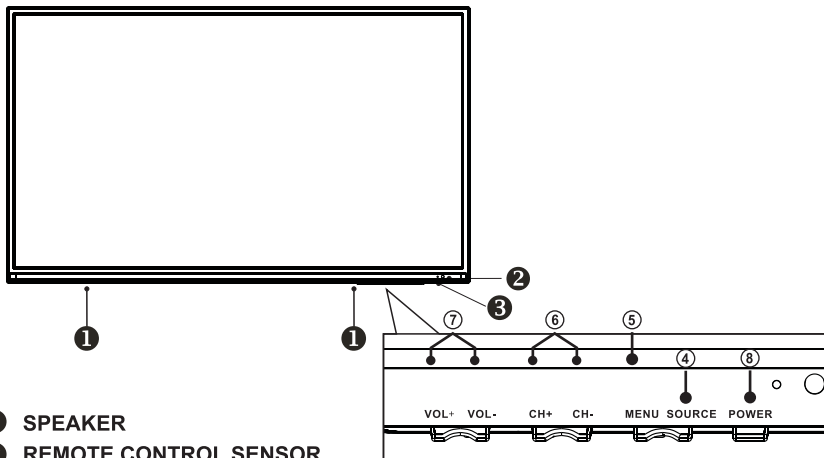
## Accessories

Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.



## General Description

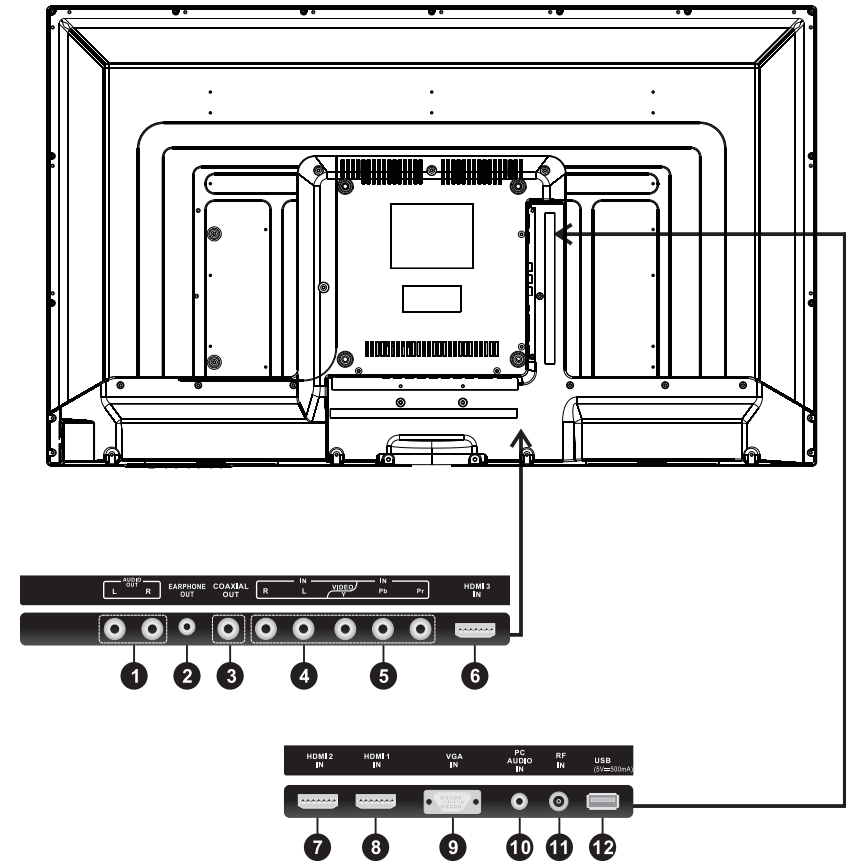
### Overview of front and side panel



- 1 SPEAKER**
- 2 REMOTE CONTROL SENSOR**  
Aim the remote control towards this spot on the TV.
- 3 POWER INDICATOR**  
Green: In power on mode.  
Red: In standby mode.
- 4 SOURCE**  
Toggles between all the available input Source ( TV, AV, Component, HDMI 1, HDMI 2, HDMI 3, PC, USB)
- 5 MENU**  
Press to see an on-screen menu of your TV's features.
- 6 CH+/-**  
Press to change channels.  
In the on-screen menu, use the CH +/- buttons as up/down arrow buttons.
- 7 VOL+/-**  
Press to increase or decrease the volume.  
In the on-screen menu, use the VOL +/- buttons as left/right arrow buttons.
- 8 POWER**  
Press POWER button to toggle between normal and standby mode.

## General Description

### Overview of back panel



- 1. R/L: output
- 2. EARPHONE: output
- 3. COAXIAL: output
- 4. VIDEO: input
- 5. YPBPR: input
- 6. HDMI 3: input
- 7. HDMI 2: input
- 8. HDMI 1: input
- 9. VGA: input
- 10. PC AUDIO: input
- 11. RF: input
- 12. USB: input(5V=500mA)

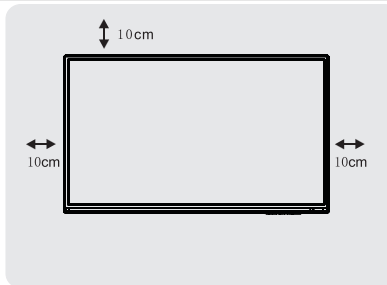
## General Description

### Install LED SET

#### 1. Set your LED TV set

Put your LED TV set in a firm place that can bear its weight.

To avoid danger, please do not expose the LED TV set to water or heat (such as a light, candle, or heating machine). Do not block the ventilation on the back of the LED TV set.



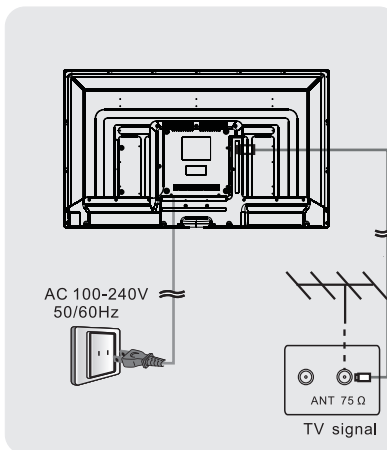
#### 2. Connect antenna and power

a. Connect the antenna cable to the antenna socket on the back of the LED TV set and to your antenna socket.

b. Plug in the power cord of the LED TV set (AC 100-240V 50/60Hz).

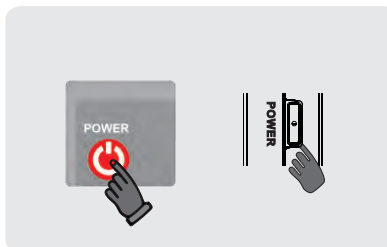
c. When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.

The MAINS plug or an appliance coupler is used as the disconnect device, The disconnect device shall remain readily operable.



#### 3. Turn on the set

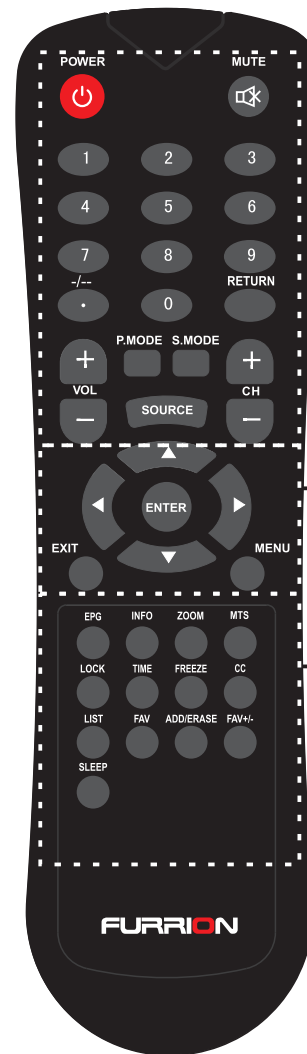
If the LED TV set is in standby mode (the light is red), press the POWER button on the remote control to turn on the set.



**NOTE**  
Picture only for reference

## General Description

### Overview of remote control



**POWER:** Turn the TV on or off.  
**MUTE:** Press to mute the sound, Press again to regain the sound.  
**0-9:** Press 0-9 to select a TV channel directly The channel will change after 2 seconds. Applicable for entering page number in teletext mode and so on.  
**-/-:** Press this button firstly when the channel to be selected is two or three figures (only DVD mode).  
**RETURN:** Return to the previously viewed program.  
**P.MODE:** Select the picture mode.  
**S.MODE:** Select the sound mode.  
**SOURCE:** Press to select signal source for TV.  
**VOL +/-:** Press these two buttons to increase/decrease the sound volume.  
**CH +/-:** Press these two buttons to change channels sequentially.

**▲ ▼ ◀ ▶/enter:** Allows you to navigate the on-screen menus and adjust the system settings to your preference.  
**EXIT:** Exit from the menu or sub menu.  
**MENU:** Allow you to navigate the on-screen menus.

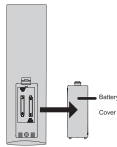
**EPG:** Press to display EPG (Electronic Program Guide) information.  
**INFO:** Displays the channel information.  
**ZOOM:** Press to change the screen scale.  
**MTS:** Press to select the audio channels.  
**LOCK:** Press to display the parental menu.  
**TIME:** Press to display Time menu.  
**FREEZE:** Press to freeze the screen.  
**CC:** Press to display the closed caption.  
**LIST:** Press to display the TV program list.  
**FAV:** Press to display the favorite programs.  
**ADD:** Add this program to the favorite language.  
**ERASE:** Delete this program from the favorite channels list.  
**FAV +/-:** Press this button +/- the favorite program list.  
**SLEEP:** Set up the time how long the TV will turn off.

## General Description

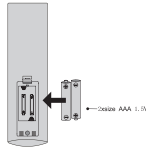
### Installing Batteries in the Remote Control

#### Installing Batteries

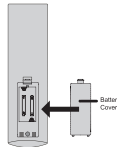
- 1 Open the battery compartment cover on the back side.



- 2 Insert two 1.5V AAA size batteries in correct polarity. Don't mix old or used batteries with new ones.



- 3 Closed the cover.



✦ Point the remote towards the remote control sensor of the wireless TV and use it within 7 meters.

✦ Put the used batteries into the recycling bin since it can negatively affect the environment.

#### Note:

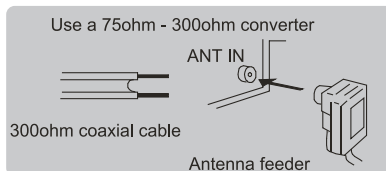
- One loading of batteries will last for 1 year under normal use
- If you do not intend to use the remote controller for a long period of time, remove them to avoid damage due to leakage.
- Do not use old and new batteries together.
- The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

## External Connection

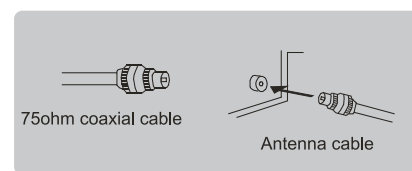
### Antenna connection

Antenna input impedance of this unit is 75ohm. VHF/UHF 75ohm coaxial cable can be connected to the antenna jack directly, if the antenna cable is 300ohm parallel flat feeder cable, you need to use the 300ohm/75ohm converter to connect the antenna cable to the antenna jack. For details Please refer to the following drawing.

#### Antennas with 300 ohm flat twins Leads



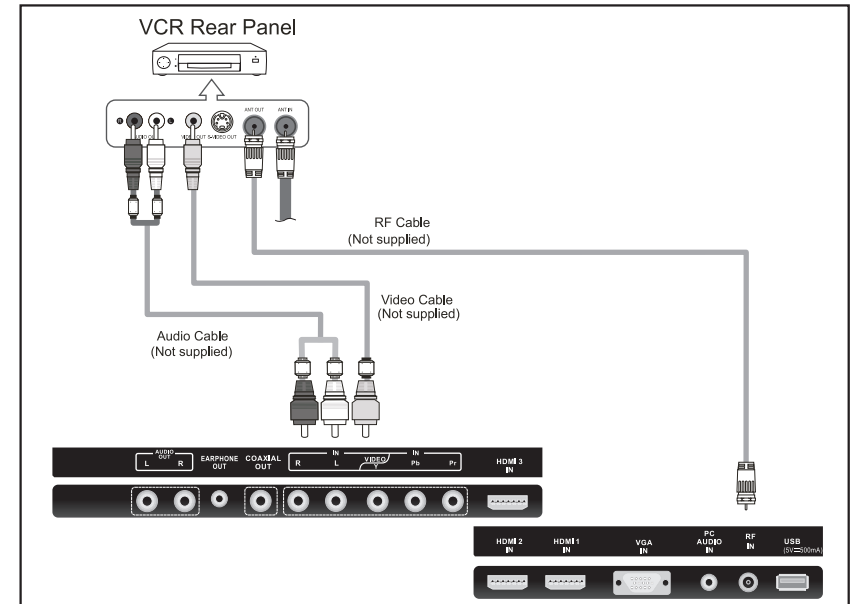
#### Antennas with 75 ohm Round Leads



## External Connection

### Connecting VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system. Skip step 1 if you have not yet connected to an antenna or a cable system.



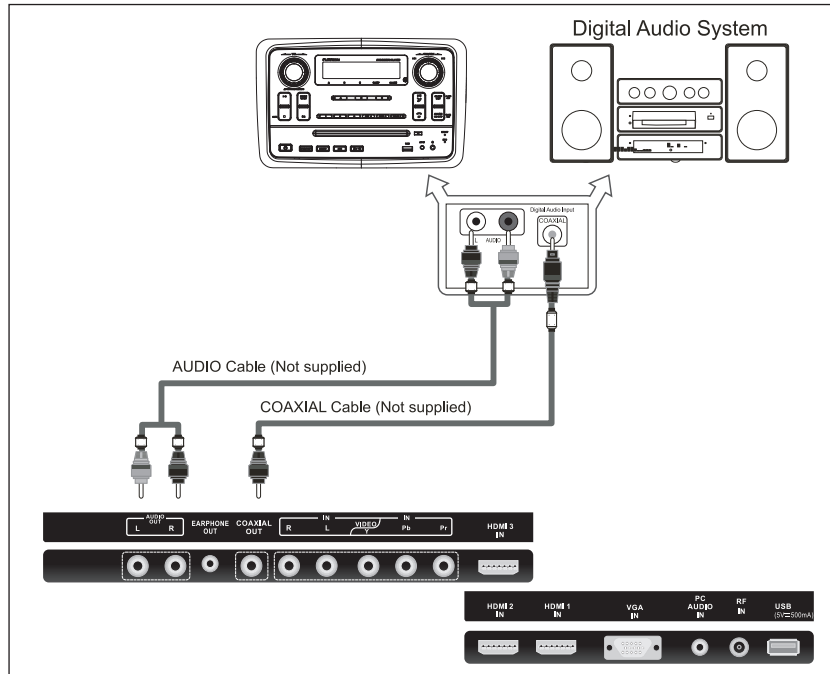
Follow the instructions in Viewing a VCR or Camcorder Tape to view your VCR tape. Each VCR has a different back panel configuration. When connecting a VCR, match the color of the connection terminal to the cable. We recommend the use of cables with a Ferrite Core.

1. Unplug the cable or antenna from the back of the TV.
2. Connect the cable or antenna to the ANT IN terminal on the back of the VCR.
3. Connect an RF Cable between the ANT OUT terminal on the VCR and the ANT IN terminal on the TV.
4. Connect a Video Cable between the VIDEO OUT jack on the VCR and the VIDEO IN jack on the TV.
5. Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AUDIO L and AUDIO R jacks on the TV.
  - If you have a mono (non-stereo) VCR, use a Y-connector (not supplied) to hook up to the right and left audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

## External Connection

### Furrion Wallmount Stereo

The rear panel jacks on your TV make it easy to connect a Digital Audio System to your TV.



5.1 CH audio is possible when the TV is connected to an external device supporting 5.1 CH.

We recommend the use of cables with a Ferrite Core.

1. Connect COAXIAL Cable between the SPDIF jacks on the TV and the Digital Audio amplifier.

Input jacks on the Digital Audio System. When a Digital Audio System is connected to the SPDIF terminal: Decrease the gain (volume) of the TV, and adjust the volume level using the Digital Audio system's volume control.

2. R/L audio out

Audio out: output single from TV, AV, HDMI1, HDMI2, HDMI3, PC, USB.

Audio Out can be used to connect to an external Amp, Furrion Wallmount Stereo or Home Entertainment System.

This volume output is not controlled by the volume control on the TV or Remote Control.

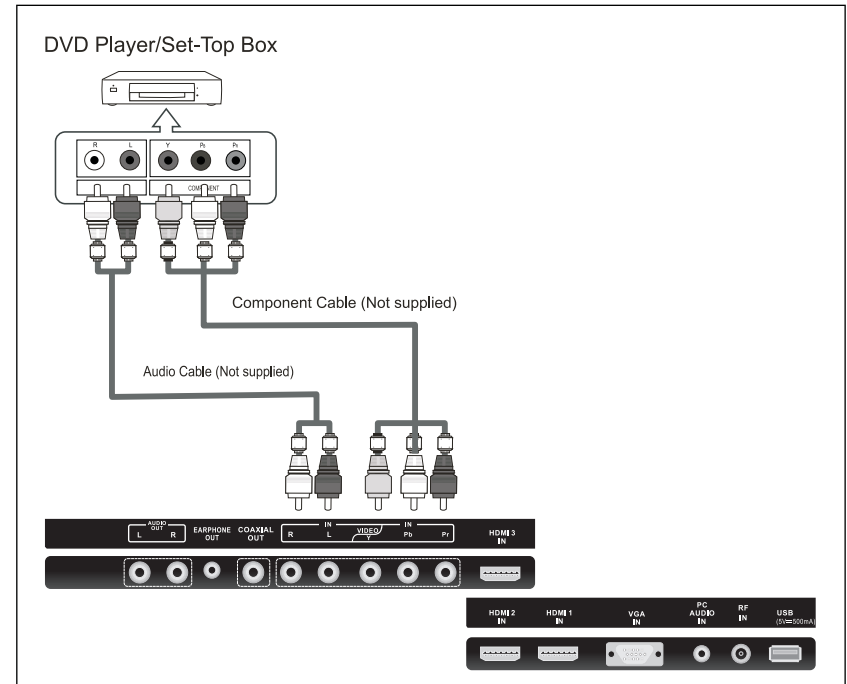
To use this function, turn down the volume on the TV and use the volume control

from AV Amp / Stereo / Tuner or Home Theater System.

## External Connection

### Connecting DVD Player/Set-Top Box

The rear panel jacks on your TV make it easy to connect a DVD to your TV.



Component video separates the video into Y (Luminance (brightness)), Pb (Blue) and Pr (Red) for enhanced video quality.

Be sure to match the component video and audio connections.

For example, if connecting the video cable to COMPONENT IN, connect the audio cable to COMPONENT IN also.

Each DVD player/STB has a different back panel configuration.

When connecting a DVD player/STB, match the color of the connection terminal to the cable.

We recommend the use of cables with a Ferrite Core.

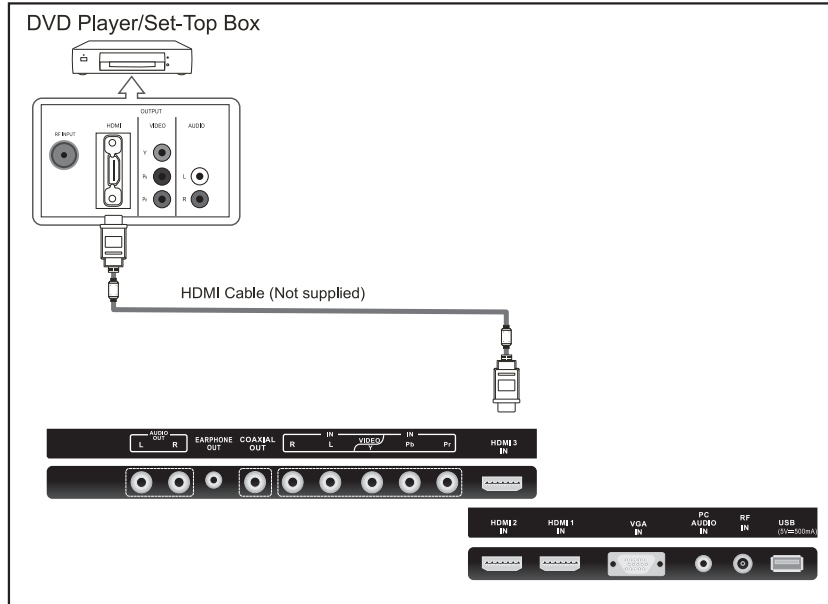
1. Connect a Component Cable between the COMPONENT IN [Y, PB, PR] jacks on the TV and the COMPONENT [Y, PB, PR] jacks on the DVD player.
2. Connect Audio Cables between the COMPONENT IN [R-AUDIO-L] jacks on the ATV and the AUDIO OUT jacks on the DVD player.



## External Connection

### Connecting DVD Player/Set-Top Box via HDMI

This connection can only be made if there is a HDMI Output connector on the external device.



#### What is HDMI?

HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

Multimedia interface is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels).

The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP(High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

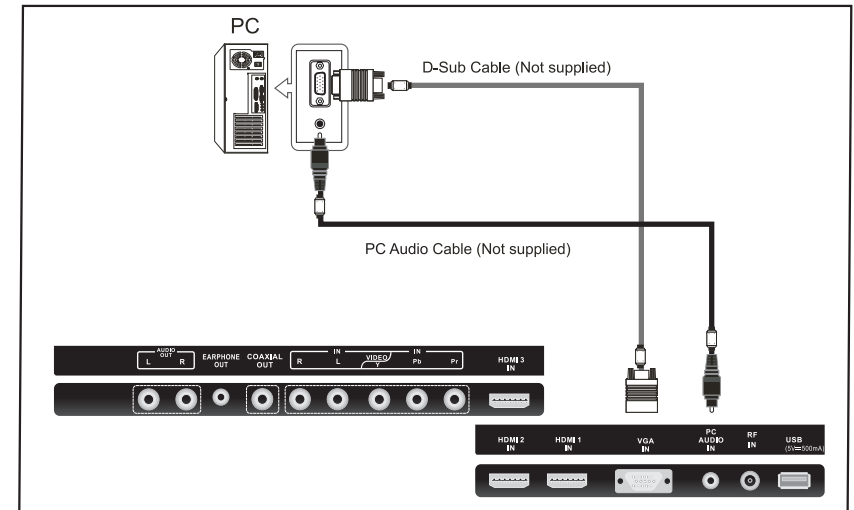
Each DVD player/STB has a different back panel configuration.

We recommend the use of cables with a Ferrite Core.

1. Connect an HDMI Cable between the HDMI connector on the TV and the HDMI connector on the DVD player/Set-Top Box.

## External Connection

### Connecting PC



Each PC has a different back panel configuration.

The HDMI jacks do not support PC connection.

We recommend the use of cables with a Ferrite Core.

1. Connect a D-Sub Cable between RGB/PC IN connector on the TV and the PC output connector on your computer.
2. Plug PHONE out connector into PHONE out jack on the TV the TV speaker will be muted.
3. Connect the PC audio input jacks on the TV

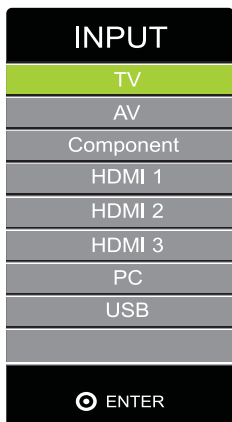
## Supporting signals

Input	Mode
Air	8VSB
Cable	Free 64/256QAM
CVBS	NTSC 3.58

VGA/PC	Component	HDMI
640x480/60Hz	480i/60Hz	480i/60Hz
800x600/60Hz	480p/60Hz	480p/60Hz
1024x768/60Hz	720p/60Hz	720p/60Hz
1360x768/60Hz	1080i/P 60Hz	1080i/P 60Hz
1920x1080/60Hz	1080i/P 60Hz	1080i/P 60Hz

## OSD Menu Operations

### Adjust the OSD Screen



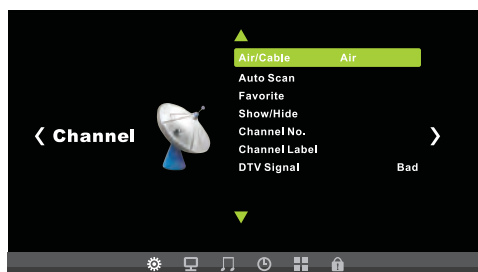
Press SOURCE button to display the input source list. Press ▼/▲ button to select the input source you want to watch. Press ENTER button to enter the input source.

## BASIC OPERATION

### CHANNEL

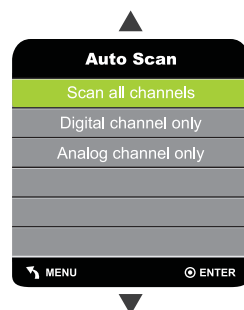
Press MENU button to display the main menu.

Press ◀ / ▶ button to select CHANNEL in the main menu, it will highlight the first option.



**Air/Cable**  
press ENTER button to select Cable or Air.

**AUTO SCAN**  
Auto Tuning can find out all effective channel automatically. Press ▼/▲ to select Auto Tuning, then press ENTER to start auto searching.  
If you want to stop searching, press EXIT.



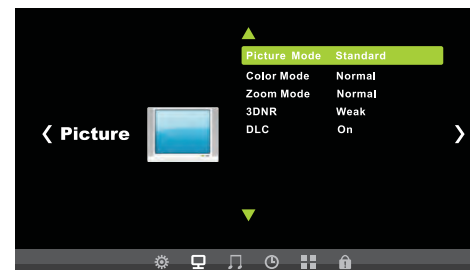
## OSD Menu Operations

### Adjust the OSD Screen

### PICTURE

Press MENU button to display the main menu.

Press ◀ / ▶ button to select PICTURE in the main menu, it will highlight the first option.



#### PICTURE MENU

Press MENU to display the main menu, and press ◀ / ▶ to select the Picture Menu. Highlight the item and press ▼/▲ to select corresponding sub-menu.

Picture Mode: Dynamic/Standard/Soft/ Personal.

Color mode: This item can adjust the saturation of the color based on your own like.

Zoom mode: Four selectable Zoom Modes, Normal, Zoom, Cinema, Wide .

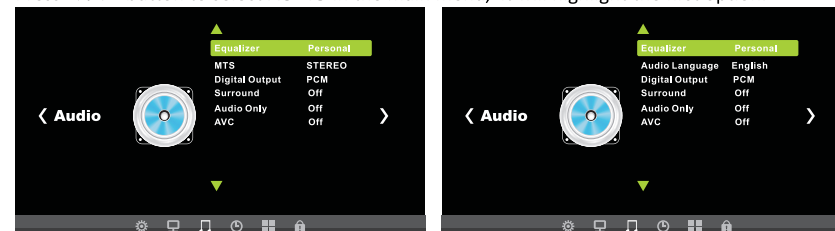
3DNR: Used for the noise reduction adjustment to get a better image effects.

DLC: Dynamic brightness control

### AUDIO

Press MENU button to display the main menu.

Press ◀ / ▶ button to select AUDIO in the main menu, it will highlight the first option.



#### AUDIO MENU

Press MENU to display the main menu, and press ◀ / ▶ to select the Sound Menu.

Equalizer Standard: Adjust audio frequency band.

MTS: Set the MTS (ATV mode).

Audio Language: Set the language (DTV mode).

Digital Output: Press ▼ button to highlight Digital Output. then press the enter button to select it .

Surround Sound: Surround effect on or off.

Audio Only: Audio Only effect on or off.

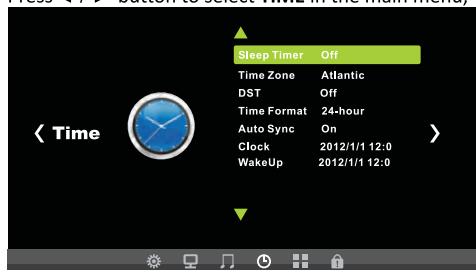
AVC: When set the AVC on, quick volume change will be smoothed.

## OSD Menu Operations

### TIME

Press **MENU** button to display the main menu.

Press ◀ / ▶ button to select **TIME** in the main menu, it will highlight the first option.



#### TIME MENU

Press **MENU** to display the main menu, and press ◀ / ▶ to select the Time Menu.

Sleep Timer: Select the time in minutes(5min,10min,15min,30min,60min,90min,120min,180min,240min,Personal) that you want the TV to shut off automatically after you set the time. Cancel by setting it to Off.

Time Zone: Set to choose the time belt.

DST: Press **ENTER** to select the DST on or off.

Time Format: Set to choose time display format

Auto Sync: Synchronous automatic

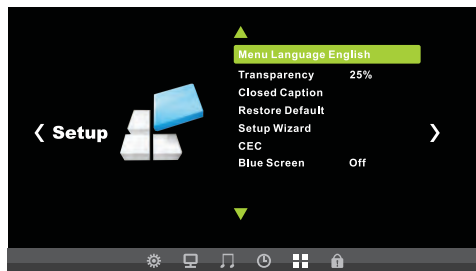
Clock: Press **ENTER** to set time.

Wake Up: Ending the state of sleep

### SETUP

Press **MENU** button to display the main menu.

Press ◀ / ▶ button to select **SETUP** in the main menu, it will highlight the first option.



#### SETUP MENU

Press **MENU** to display the main menu, and press ◀ / ▶ to select the Setup Menu.

Menu Language: Set the OSD display language. (English/ French/ Spanish)

Transparency: Set transparency of OSD.

Closed Caption: Set to hide the caption

Restore Default: Recall the default setting.

Setup Wizard: Installation guide.

## OSD Menu Operations

### SETUP

CEC HDMI function:

When connect to DVD players which support CEC function via HDMI cable, DVD player will turn on automatically while turn on TV; DVD player will turn off automatically while turn off TV; TV can also turn on automatically while turn on DVD player.

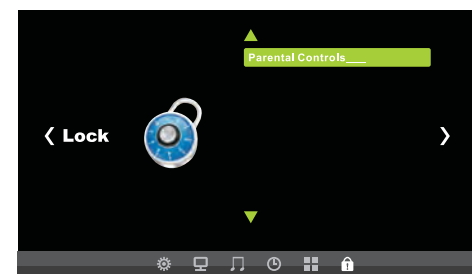
User could also use UP,DOWN,LEFT,RIGHT and ENTER buttons on TV remote to control DVD players.

Blue Screen: Set the background color to blue or black when no input signal.

### LOCK

Press **MENU** button to display the main menu.

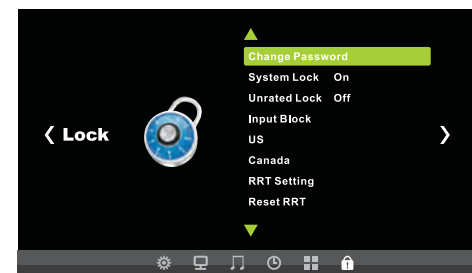
Press ◀ / ▶ button to select **LOCK** in the main menu, it will highlight the first option.



Press **MENU** button to display the main menu.

Press ◀ / ▶ button to select Lock in the main menu. It will highlight the first option.

Enter the code 0000 to enter the parental menu (see the picture below), or press **MENU** to cancel.



#### CHANGE PASSWORD

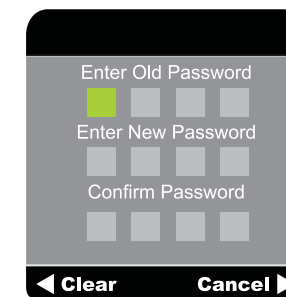
Press **ENTER** button and enter a new 4 digit password.

#### SYSTEM LOCK

Press **ENTER** to select the system lock on or off.

#### UNRATED LOCK

Press **ENTER** to select the Unrated lock on or off.



## OSD Menu Operations

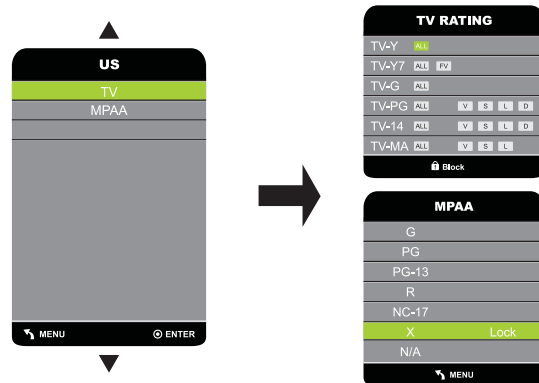
### Adjust the OSD Screen

#### INPUT BLOCK

Press ENTER to display the Input Block , Press ▼ / ▲ button to select (TV, AV Component, HDMI 1, HDMI 2, HDMI 3, PC, USB)  
press ◀ / ▶ button to select "UnBlock" or "Block".

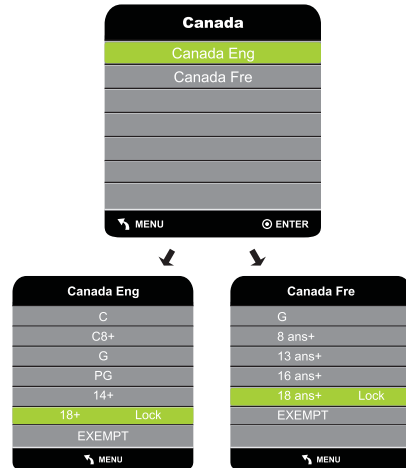
#### US

Press ENTER button for to enter to US ratings menu, which contains two sub-menus: MPAA Rating and TV Rating.



#### CANADA

Press ENTER button for to enter to CANADA ratings menu, which contains two sub-menus: Canada English and Canada French.



## USB

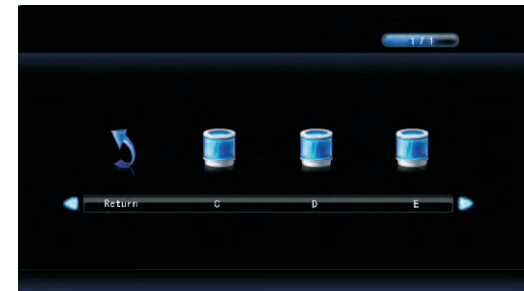
### USB Operation

**Note: Before operating Media menu, Plug in USB device, then press SOURCE button to set the Input Source to USB.**

Press ◀ / ▶ button to select Photo/Music/Movie/Text , and then press ENTER button to enter.



Choose PHOTO to enter the photo scan model, if there are many zones in mobile equipment, it would shown below:



Choose C zone, can scan the folder and photos.



Selected the photos, press Enter to show slides, press the Enter again will show the toolbar of menu, as shown, can do various operating to the show slides, for example: suspend, stop, play music etc.

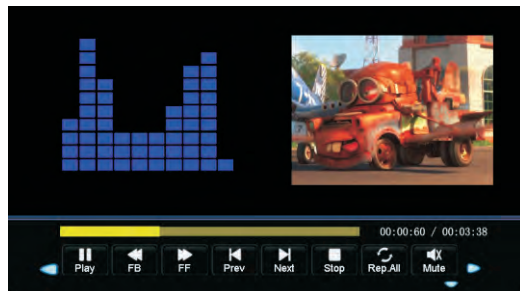
USB Operation



Enter the model of scanning music can scan the music files, as shown below:



Pitch up the MP3 files, press Enter to play, as shown below, can setup the playing more belong to the toolbar, such as: suspend, fast forward, fall speed, loop, etc.

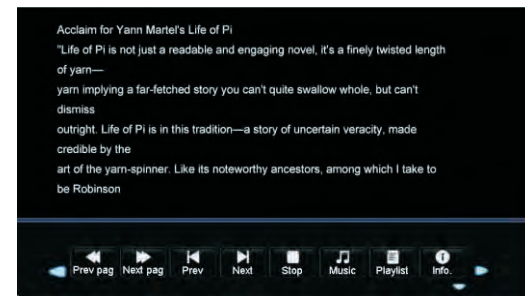


Press ◀/▶ to select the different menu pages.  
 Press the remote control of ENTER to turn into the selected sub menu.  
 Press the remote control of MENU to come back the User's operation menu or quit.  
 Press the remote control of EXIT to exit menu directly.

USB Operation



Press ◀/▶ to select the different menu Movie.  
 Press the remote control of ENTER to turn into the selected sub menu.  
 Press the remote control of MENU to come back the User's operation menu or quit.  
 Press the remote control of EXIT to exit menu directly.



Press ◀/▶ to select the different menu TEXT.  
 Press the remote control of ENTER to turn into the selected sub menu.  
 Press the remote control of MENU to come back the User's operation menu or quit.  
 Press the remote control of EXIT to exit menu directly.

USB

MULTIMEDIA FORMATS	
Photo	JPG/JPEG
Movie	MPEG2/MPEG2-HD/MPEG4/MPEG4-HD/H.264/FLV/MVC/DD
Music	MP3
Text	TXT

## Troubleshooting

If you have any problem, check the countermeasures for each symptom listed below. The following symptoms may have caused by inappropriate adjustment rather than actual malfunction of the unit. If the trouble persists, contact the service center.

Symptoms	Possible solutions
No power	Please check the power cord is plug in. Unplug the power cord and plug it after 60 seconds and restart the TV.
No picture	Please check antenna connection. Station may experience problems, please tune to another station. Please adjust the settings of contrast and brightness.
Good picture but no sound	Please increase the volume. Please check TV is under mute mode, press MUTE button on the remote control. Please check sound settings.
Good sound but abnormal color or no picture	Please check the antenna connection.
No remote control	Batteries of remote control may have exhausted, if necessary, please change the batteries. Clean the remote control lens. The distance between LED TV and remote control should be within 8m.
Full screen flickering under VGA	V-HEIGHT value may be set too big, restart computer and enter safe mode, then set monitor parameters to correct value according to adjustment description.
Horizontal stripes under VGA	Sample phase may be deflected, adjust phase according to picture position.
Colored dots may be present on the screen	This product is the high resolution LED display device and a few cell defects can occur in the manufacture of the LED. Several colored dots visible on the screen would be acceptable. in line with other LED manufacturers and would not mean that the LED is faulty. We hope you will understand that it could not be changed or refunded.

## Picture defects and the reason



### Snowy Picture

Snowy picture is usually due to weak signal. Adjust antenna or install an antenna amplifier.



### Double Image or Ghosts

Double images are usually caused by reflections from tall buildings. Adjust the direction of the antenna or raise it.



### Radio Wave Interference

Wave patterns are moving on the screen, which are usually caused by nearby radio transmitters or short-wave receiving equipment.



### High Temperature Electrothermal Interference

Diagonal or herringbone patterns appear on the screen or part of picture is missing. This is probably caused by high temperature electrothermal equipment in a nearby hospital.