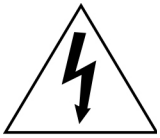


## Explanation of WARNING Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence dangerous voltage within the inside of the product that may be sufficient level to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions.

## Safety instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this LCD TV near water.
- 6) Clean only with dry cloth. Do not use liquid, alcohol, or aerosol cleaners.
- 7) Do not block any ventilation openings. Install your LCD TV in a well ventilated area.
- 8) Keep your LCD TV away from moisture, excessive dust and any heat sources, such as radiators, heat registers, stoves, or any other apparatus (including amplifiers) that produce heat.
- 9) Do not remove the back cover. There are no user-serviceable parts inside.
- 10) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. 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.
- 11) Protect the power cord from being walked on or pinched particularly at plugs, receptacles, and the point where they exit from the LCD TV.
- 12) Never rest objects on the power cord or place it in high traffic areas.
- 13) Only use attachments/accessories specified by the manufacturer.
- 14) Use only with stand, tripod, bracket, or table specified by the manufacturer, or sold with the LCD TV. When a cart is used, use caution to avoid injury from tip-over.
- 15) Unplug this LCD TV during lightening storms or when unused for long periods of time.
- 16) Refer all servicing to qualified service personnel--  
Servicing may be required if the LCD TV has been damaged in any way, such as power-supply cord or plug damage, liquid has been spilled or objects have fallen into the LCD TV, the LCD TV has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 17) Do not expose your LCD TV to dripping or splashing, and do not place objects filled with liquids on it.
- 18) The Shock Hazard Marking and Associated Graphical Symbol are provided on the back panel of unit.
- 19) This product is only to perform the useful function of entertainment and visual display tasks are excluded.
- 20) Wall or ceiling mounting: When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. Use only the mounting hardware recommended by the manufacturer. This is a safety feature.
- 21) The readily operable appliance coupler will serve as the disconnect device of this apparatus.
- 22) The apparatus must be connected to a mains socket outlet with a protected earthing connection.



**CAUTION:** Any damage caused by incorrectly attempting to mount this LCD TV is not covered under the terms of the manufacturers warranty.



**WARNING:** To reduce the risk of fire or electric shock, do not expose this LCD TV to rain or moisture.

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## ACCESSORIES

Thank you for purchasing this LCD-TV.  
This LCD-TV package comes with:

- LCD TV
- User's Guide
- Warranty Card
- Remote control
- Battery AA x 2
- Power Cord
- VGA Cable
- RCA A/V Cable

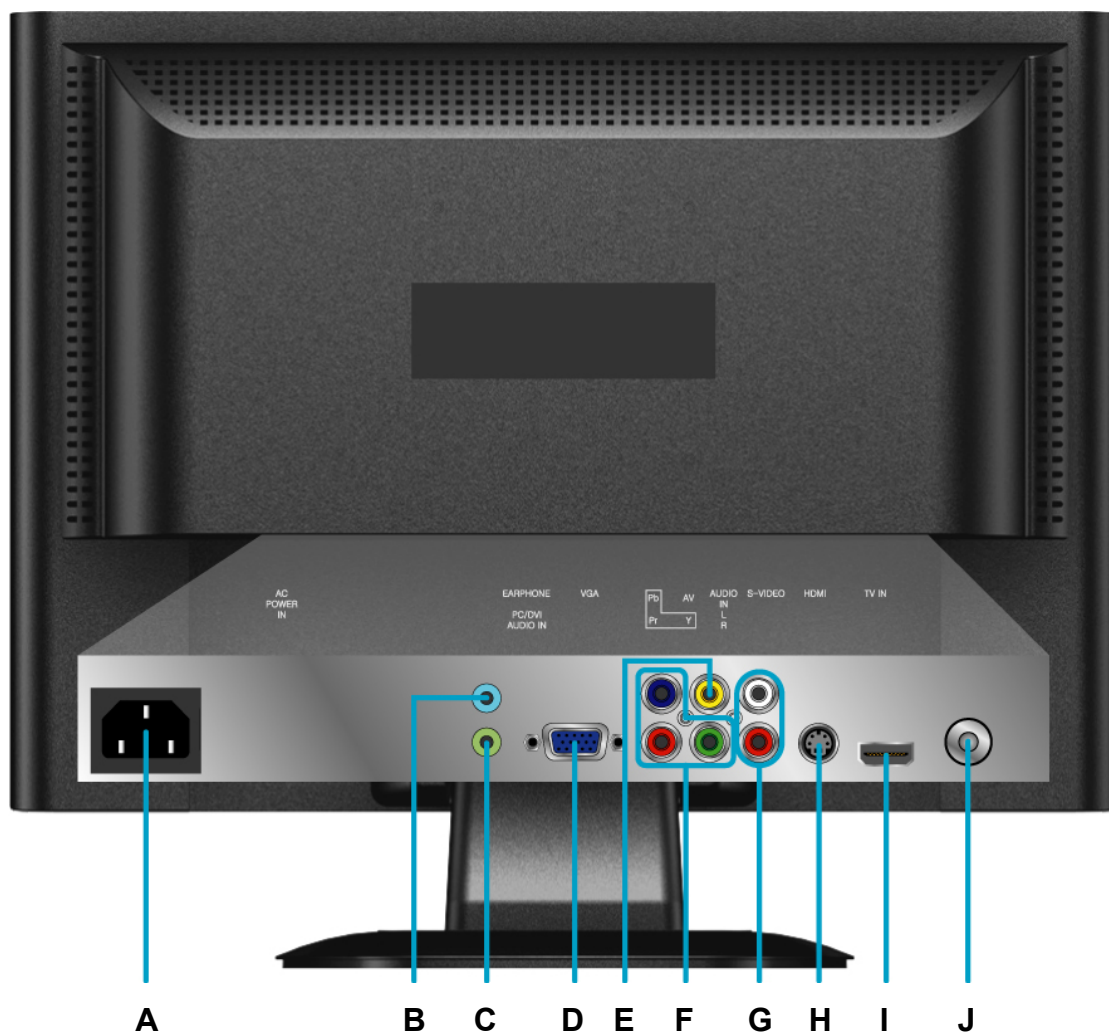


## FRONT PANEL BUTTONS



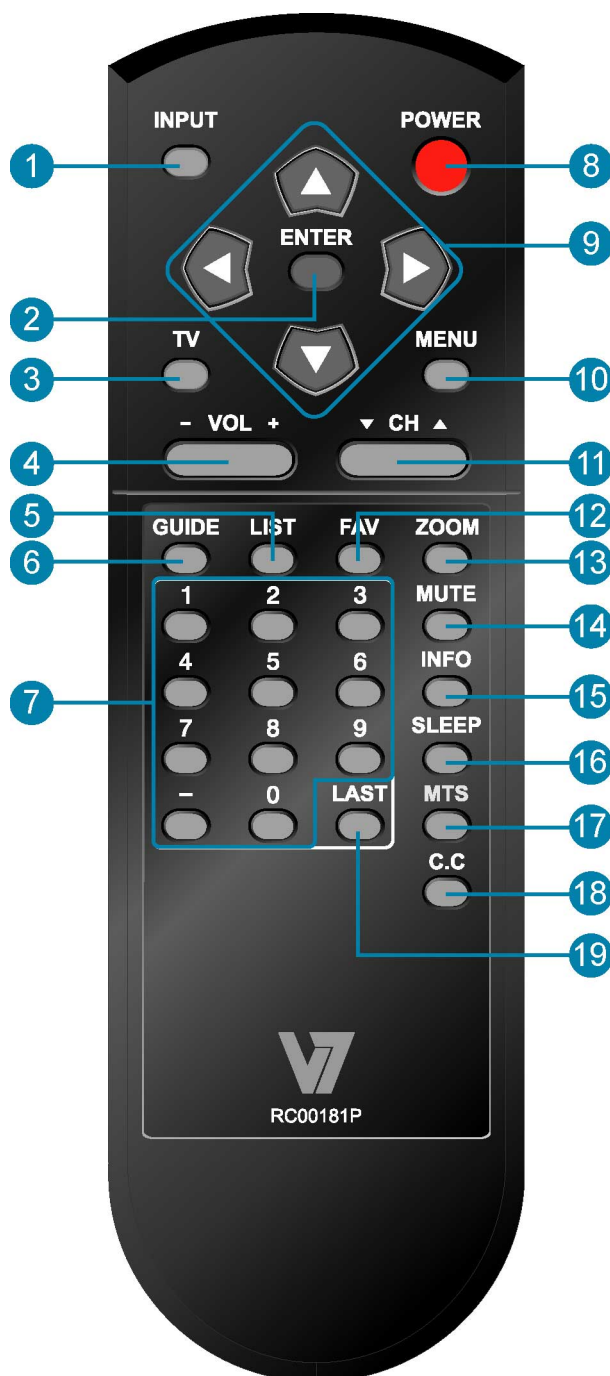
①	Volume Down
②	Volume Up
③	On Screen Display Menu On/Off
④	CH Down
⑤	CH Up
⑥	Input Source Selection (Enter)
⑦	Power ON/OFF button
⑧	Power LED Indicator/ Remote Control Receiver

## BACK PANEL BUTTONS



<b>A</b>	Power (AC input)
<b>B</b>	Headphone Jack
<b>C</b>	PC/ DVI Audio input
<b>D</b>	VGA signal input
<b>E</b>	Composite Video input
<b>F</b>	YPbPr signal input
<b>G</b>	AV/ S-Video/ YPbPr signal Audio input (left/right)
<b>H</b>	S-Video input
<b>I</b>	HDMI Input Terminal
<b>J</b>	Cable/ Air TV input

# REMOTE CONTROL



**Remote control button function as follows:**

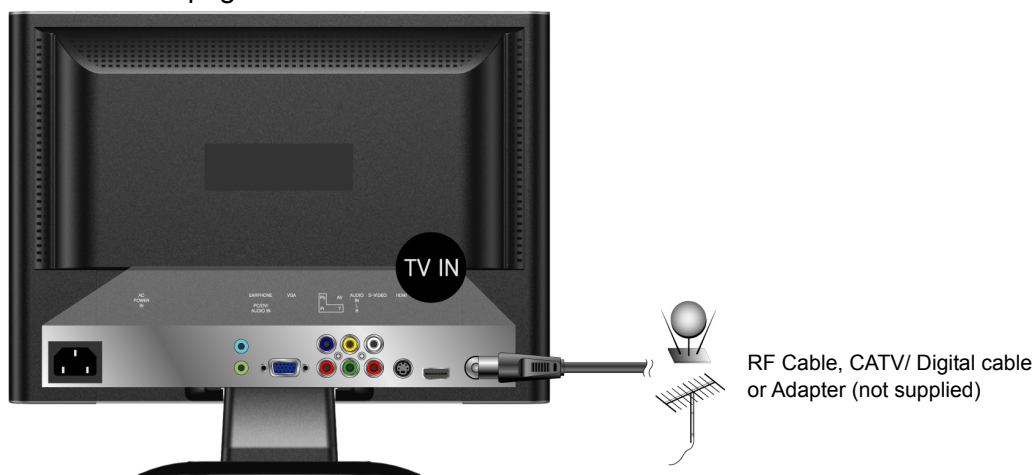
1	INPUT	Input source select
2	ENTER	Confirm selection or enter selected menu
3	TV	Direct to TV source
4	- VOL +	Adjust volume UP/DOWN
5	LIST	Select channel from program list
6	GUIDE	Select electronic program guide (EPG)
7	0~9, - number	Directly channel select
8	POWER	Power ON/OFF
9	UP/ DOWN/ LEFT/ RIGHT	Move the cursor In OSD menu: UP/ DOWN for OSD function select and LEFT/ RIGHT for function adjust
10	MENU	On Screen Display (OSD) menu ON/OFF
11	▼ CH ▲	Adjust channel UP/DOWN
12	FAV	Select from preset Favorite Channels
13	ZOOM	Adjust window size
14	MUTE	Volume mute ON/OFF
15	INFO	Display current information
16	SLEEP	Set timer to turn off TV
17	MTS	Select Mono, Stereo or SAP sound
18	C.C	Select caption mode
19	LAST	Return to previous channel

# INSTALLATION

## Connecting RF antenna and Cable TV

Make sure the power is OFF before installing your LCD TV.

- 1) **AIR TV:** Connect the LCD TV to TV antenna with 75-ohm coaxial cable. Preset the air TV channels into memory with **Auto Scan** function when using an antenna TV system. This air input jack both support TV and DTV systems. Besides, the TV system (NTSC) and DTV system (ATSC) can be found by the scanning of "AIR" with **Auto Scan** function. See page 21.
- 2) **Cable TV:** Connect the LCD TV to the cable with CATV and Digital cable. Preset the cable TV channels into memory with **Auto Scan** function when using a cable TV system. The cable input jack both support CATV and Digital cable systems. Besides, the CATV system (cable TV) and Digital cable system (clear QAM) can be found by the scanning of "Cable" with **Auto Scan** function. See page 21.

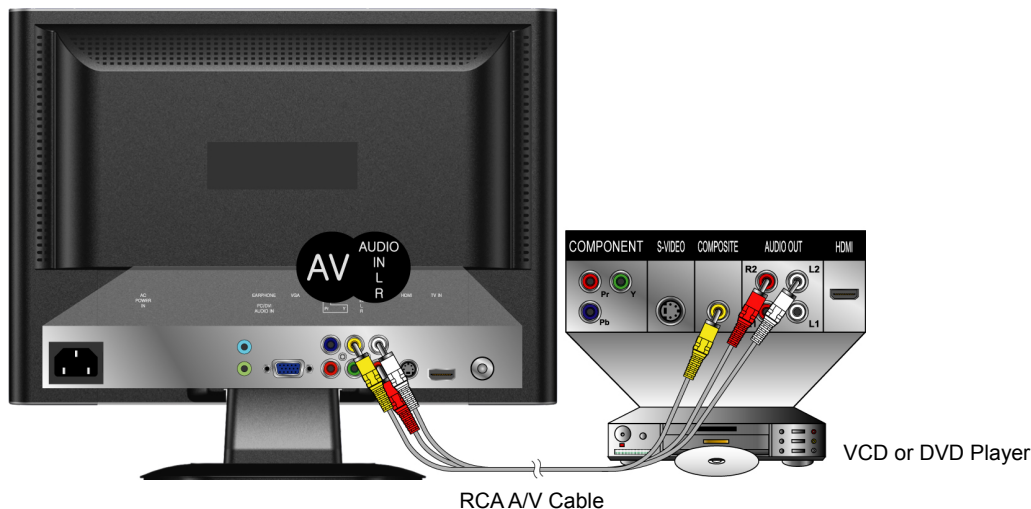


**Note:** Users can select either Air or Cable TV cable to be connected to the TV IN jack. To watch both of them, use an adapter to connect both Air and Cable cables to the jack.

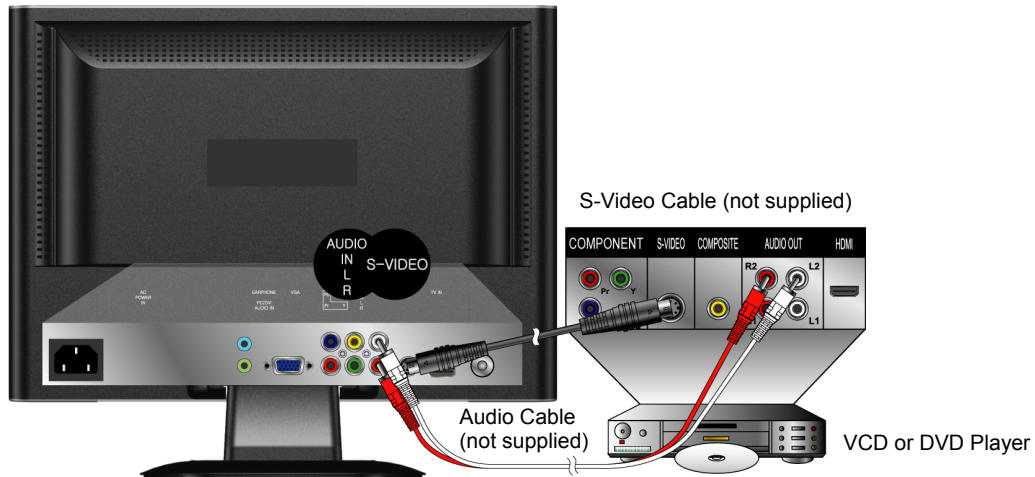
## Connecting to DVD / Set Top Box

Connect Video/Audio cables from compatible devices into the back panel of LCD TV.

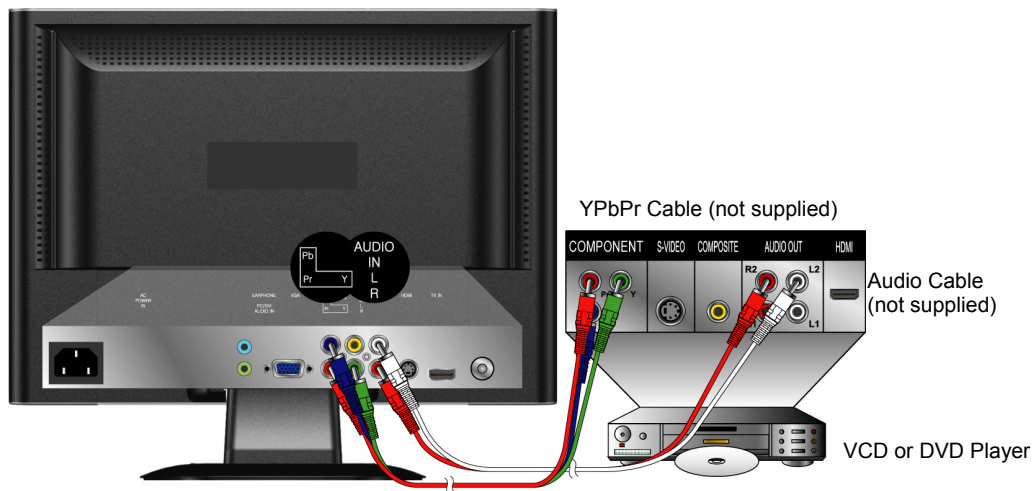
- 1) **With AV cable:**



2) With S-Video cable:



3) With YPbPr cable:



4) With HDMI cable:





## 5) With HDMI-DVI cable:



## Connecting to the Headphone

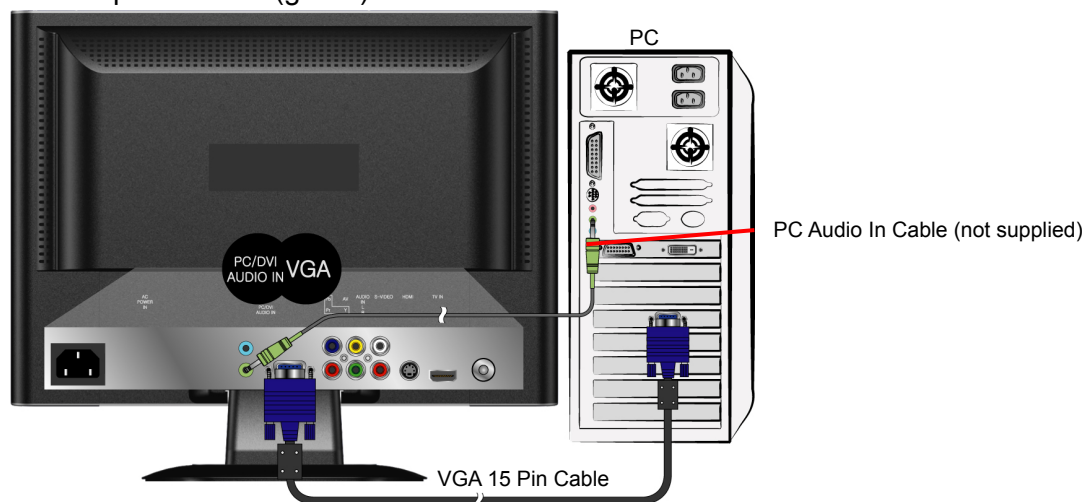
Connect the headphone to the headphone output terminal of the LCD TV. (Headphone sold separately).



## Connecting to a Computer

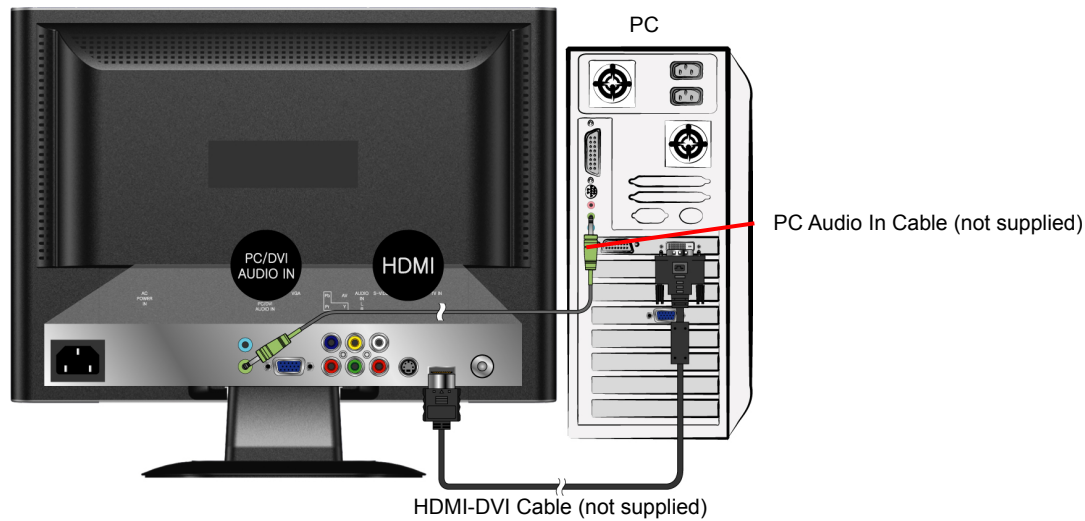
### 1) With VGA Cable:

Connect the VGA cable from VGA output of the computer to the VGA terminal input of your LCD TV. Also, connect the Audio In cable (green) from the audio output of your computer to the audio input terminal (green) of the LCD TV.



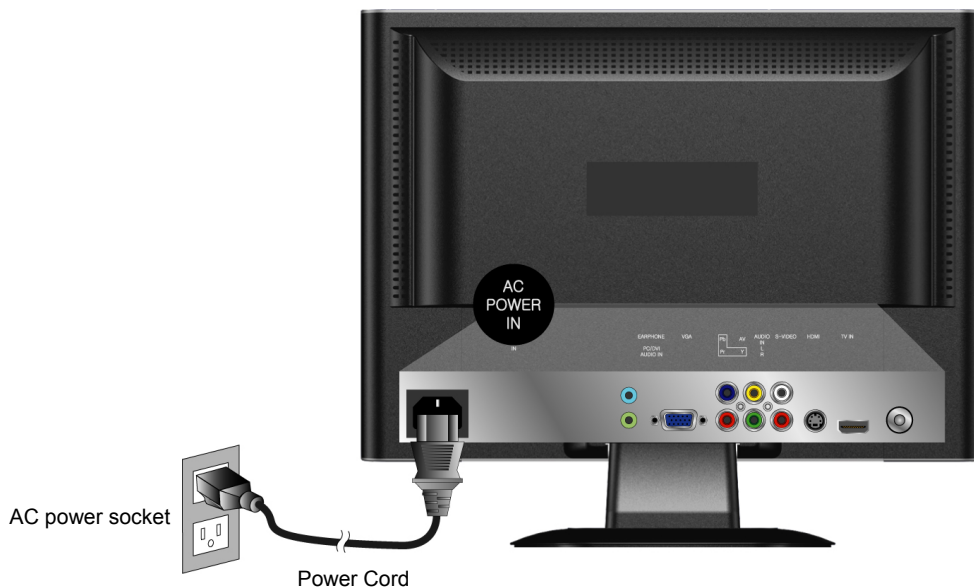
## 2) With HDMI-DVI Cable:

Connect the HDMI-DVI cable from the DVI output of the computer to the HDMI terminal input of the LCD TV. Also, connect the Audio In cable (green) from the audio output of your computer to the audio input terminal (green) of the LCD TV.



## Connecting with the power cord

Connect the power cord to the AC inlet on the back of your LCD TV, after all connections have been completed, and plug the other end of the power cord into a correctly grounded electrical outlet.





## BASIC OPERATION

To operate your LCD TV, you may use the TV remote control or top panel buttons to select input source, change channels, or adjust volume.

### Turning on the LCD TV

Before using the LCD TV:

1. Connect external equipment properly.
2. Insert the power plug and the power LED indicator will light orange.

### Power On/Off

To turn the LCD TV on/off :

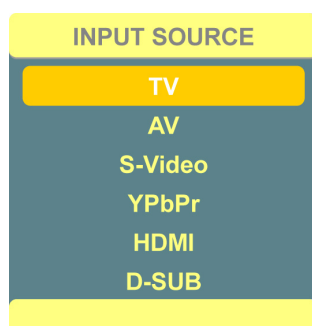
Press the **POWER** button under the LCD TV, or press the **POWER** button on your remote control to turn on/off the TV. The power LED indicator lights blue when the LCD TV is on.

### Select input source

To select the required input source:

Press the **INPUT** button on the remote control, Use **▲ ▼** to select the required input source between TV, AV, S-Video, YPbPr, HDMI, and D-SUB.

To confirm the selection, press **ENTER**.



### Volume Adjusting

Press **– VOL +** to adjust volume.

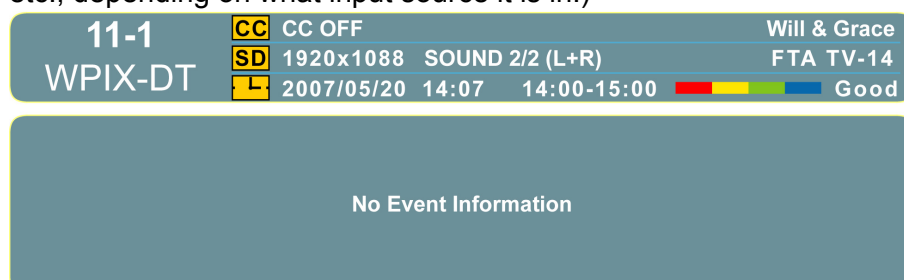
To turn off the volume, press **MUTE**.

If you want to restore volume, press **MUTE** again, or press **– VOL +** directly.



### INFO

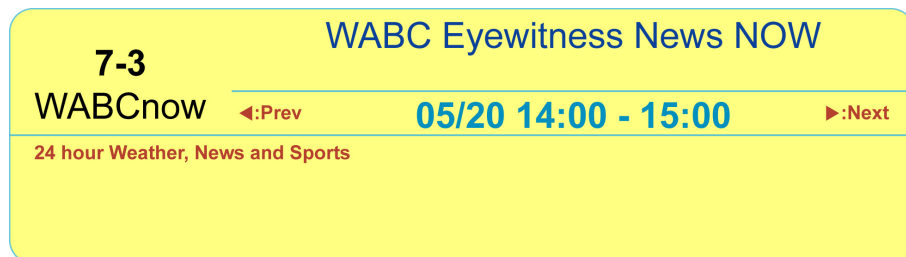
To display the current information of the LCD TV: Press **INFO**, and the current state will be displayed on the screen. (It shows all or some of the information about Input, Channel, Resolution, Audio Type, etc., depending on what input source it is in.)



\* The picture here shows an example of the INFO screen in a DTV source.

## Electronic Program Guide (EPG)

Press the **GUIDE** button on the remote control and the program information for the channel you are watching will be displayed on the screen.



\* The picture here shows an example of the GUIDE screen in a DTV source.

## Channel Select

Press number key or **▼CH▲** button to select your desired channel.

### 1. ATV

The "-" button has no function in ATV mode. Directly press the number buttons to select channels.

### 2. DTV

Use "-" button to select the sub channel in DTV.

Ex: Your desired number is 80-3.

Press **8** → press **0** → press "-" → press **3**.

- Whether in ATV or DTV, after you input the channel numbers, press **ENTER** button to direct to the channel immediately, or wait for 3 seconds to change automatically.
- Return to the previous channel, press **LAST** button.

## List

Press **LIST** button and there will be a small window showing program list, you can scroll through the list to select the channel you want directly without using the **▼CH▲** button.

No.	NAME
7-1	WABC-HD
7-2	WABC+
7-3	WABCnow
66-1	KFSF DT
66-2	KDTV-DT

Select : ▲▼

## Favorite Channels

Press FAV button to show Favorite List and select your favorite channels that have already been stored. (You need to preset the favorite channels from the OSD menu to enable this function.)



## Sleep Time Setting

Repeatedly press **SLEEP** button to set the off timer. The function is used to automatically shut off the LCD TV after a preset period of time passed. There are several times for choice – OFF, 15min, 30min, 60min, 90min, 120min, 180min, 240min.

## Zoom

Press **ZOOM** button repeatedly to select the screen size. You can select from Full, 4:3, Movie Scale, and Zoom In.

## MTS Selecting

Press **MTS** button to choose the available sound output that is preset by TV broadcasting station.

## C.C Mode

Press **C.C** button to select the caption mode.

## Using the OSD function

You can use the OSD menus and options to adjust various settings by using the remote control. The basic operation is as following:

- ◆ Press **MENU** to display OSD menu.
- ◆ Press ◀▶ to select your desired top Menu, and press **ENTER** or ▲▼ to enter the menu you select.
- ◆ Use ▲▼ to select the control you want to adjust.
- ◆ When selecting the control with ▶, press ▶ to enter next level menu or enable the function.
- ◆ Press ◀▶ to adjust or select the settings.
- ◆ Press **MENU** to exit from the OSD menu.

## ADVANCED OPERATION—OSD MENU

### PICTURE Menu

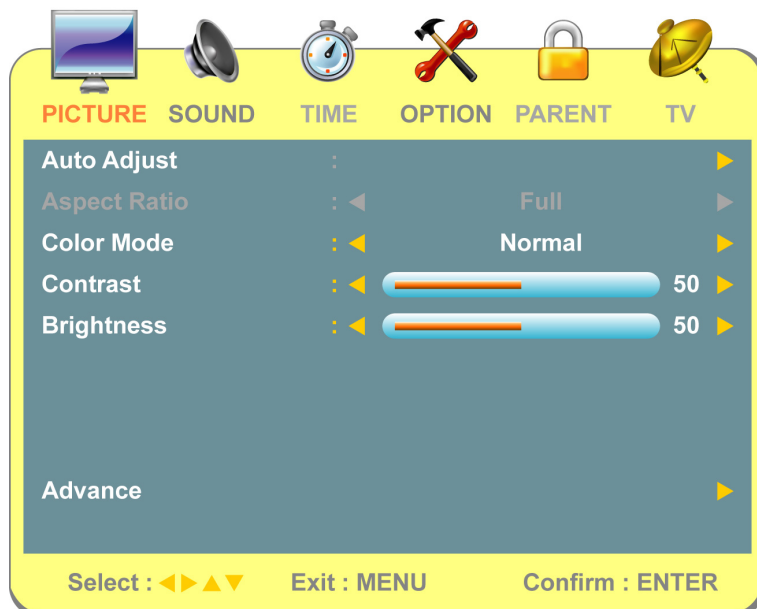
—To adjust the picture quality

In TV, AV, S-Video, YPbPr, HDMI source:



**Note:** When in AV, S-Video, YPbPr or HDMI source, the TIME and TV Menu options are disabled.

In D-SUB source:



- **Auto Adjust:** To auto adjust picture's horizontal position, vertical position, fine tune and H-Size. (only enabled in D-SUB source)
- **Aspect Ratio:** To select image size from Full, 4:3, Movie Scale, or Zoom In.
- **Color Mode:** To select color mode from Normal, Warm, or Cold.
- **Contrast:** To adjust contrast of video. (right: Max, left: Min.)
- **Brightness:** To adjust luminance of video. (right: Max, left: Min.)
- **Sharpness:** To adjust picture sharpness. (right: sharper, left: softer.)

- **Tint:** To adjust tint level.
- **Color:** To adjust color. (right: brilliant color, left: pale color.)
- **Advance:** To adjust advanced D-SUB functions, press ► to enter. (only enabled in D-SUB source)



- ◆ **Phase:** To adjust delay time of phase in order to reduce the noise of picture.
- ◆ **Clock:** To adjust clock frequency in order to get optimized horizontal size.
- ◆ **V-Position:** To adjust the vertical position of the picture.
- ◆ **H-Position:** To adjust the horizontal position of the picture.

## SOUND Menu

—To set the audio quality and status

In DTV source:



In ATV, AV, S-Video, YPbPr, HDMI, D-SUB source:



- **Bass:** To adjust bass.
- **Treble:** To adjust the treble.
- **Balance:** To adjust left and right audio balance.
- **Audio Language:** To select the available audio languages. (only enabled in DTV mode)

## TIME Menu

—To set up time zone

It is only active in TV source.

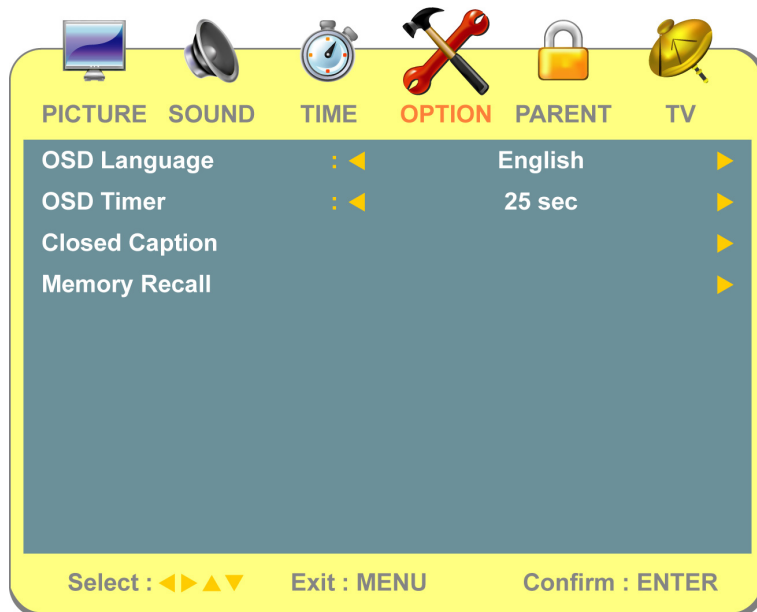


- **Time Zone:** To select the correct Time Zone for your area.
- **Daylight Saving Time:** To select summer Daylight Saving Time.

## OPTION Menu

—To set up OSD window

In TV, AV, S-Video source:

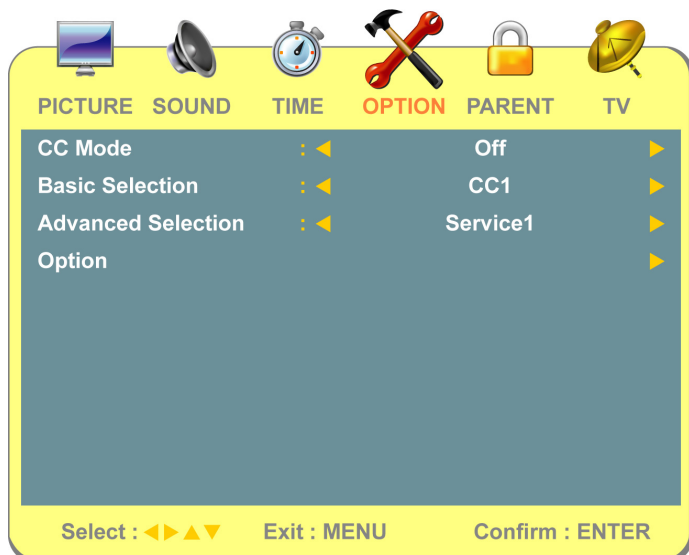


In YPbPr, HDMI, D-SUB source:

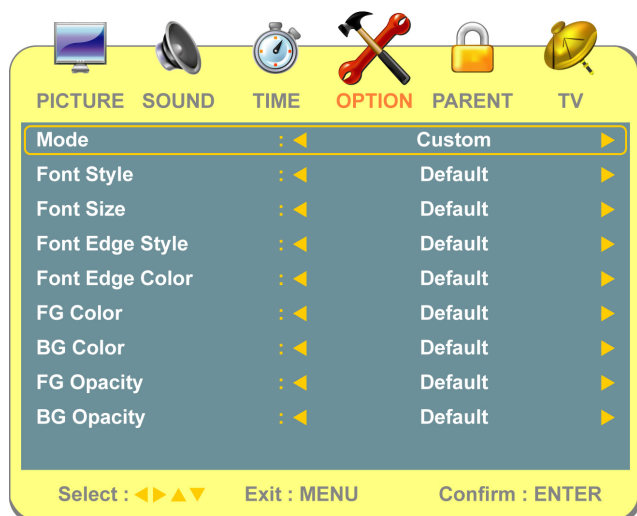


- **OSD Language:** To select an OSD language from English, French or Spanish.
- **OSD Timer:** To setup the display time of OSD. (5, 10, 15, 25, 40, and 60 seconds)

- **Closed Caption:** To set close caption options.



- ◆ **CC Mode:** To select Closed Caption Mode from Off, On, or CC on Mute.
- ◆ **Basic Selection:** To set basic analog closed caption options. (CC1~CC4, TEXT1~TEXT4)
- ◆ **Advanced Selection:** To select closed caption signal formats and set up caption modes for digital TV channels. (Service1~6)
- ◆ **Option:** Press <=> to select Mode from Default or Custom. When "Custom" is selected, use <=> to select the desired controls, <=> to adjust detailed settings.



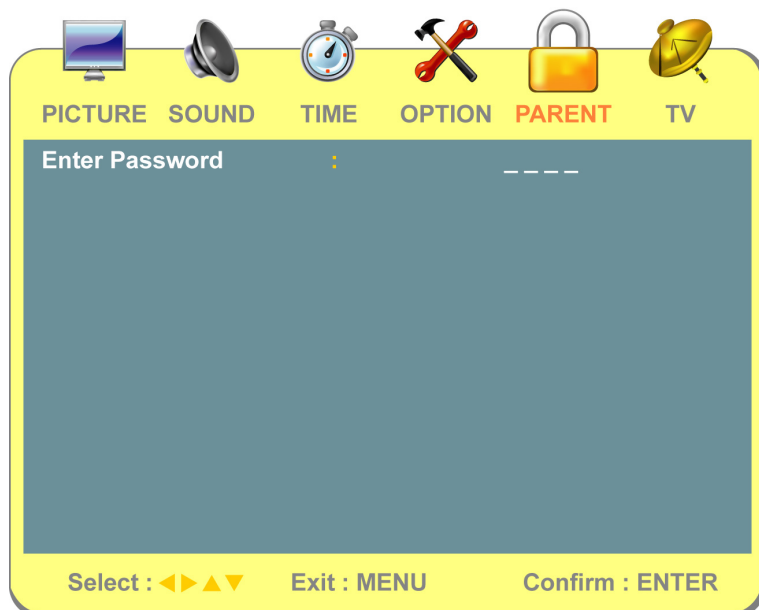
- **Memory Recall:** To restore the factory default settings.



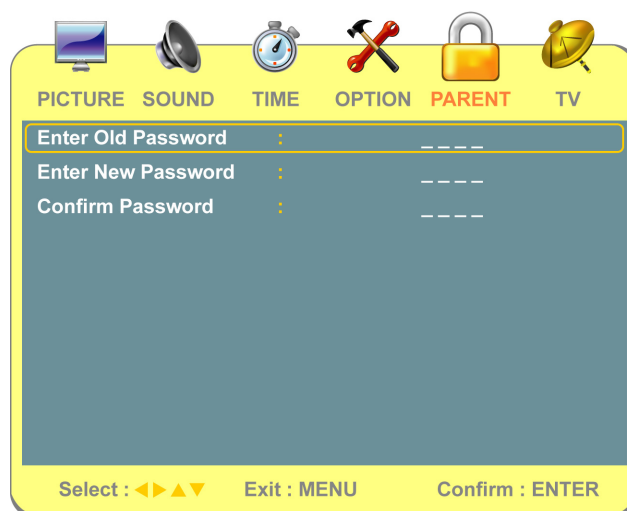
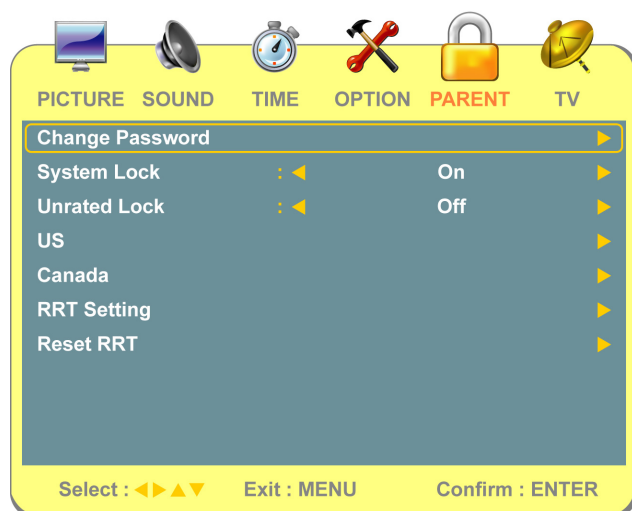
## PARENT Menu

—To set up parental control

In TV, AV, S-Video, YPbPr, HDMI source:

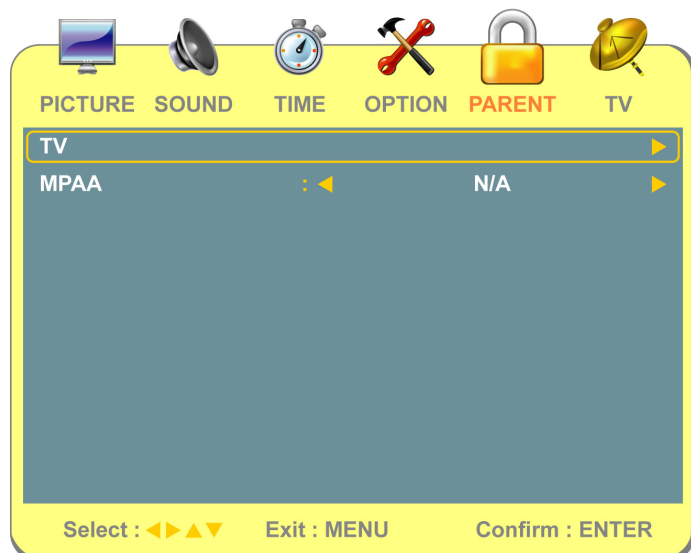


- **Enter Password:** Enter password and the screen below will show. (The default password is 0000.)

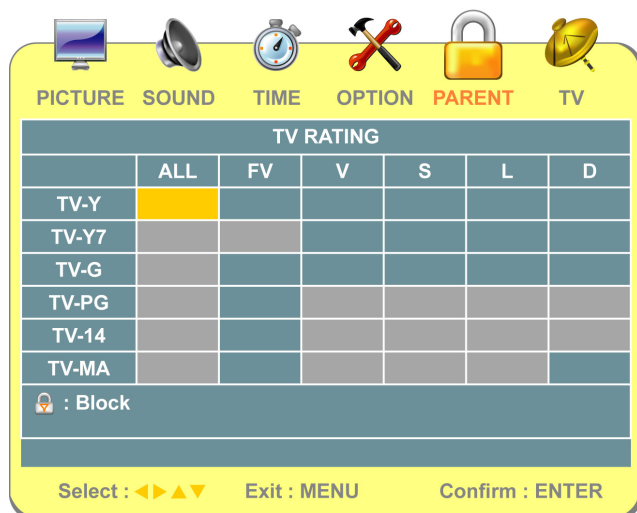


- **Change Password:** To change the password, press ►, and the screen on the right appears. Follow the instructions to change password.
- **System Lock:** Select “On” to enable the following options.  
**Note:** The below options can be enabled only when “On” is selected here.
- **Unrated Lock:** Select “On” to block unrated movies or TV programs.

- **US:** Press ► to set TV or MPAA ratings.



- ◆ **TV:** To adjust TV blocking level in the US. You can select between TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA.



The TV Ratings in the US are defined as following.

<b>TV-Y</b>	All children	<b>TV-PG</b>	Parental guidance suggested
<b>TV-Y7</b>	Directed to older children: this program is designed for children age 7 and above	<b>TV-14</b>	Parents strongly cautioned: this program contains some material that is unsuitable for children under 14 years of age
<b>TV-G</b>	General audience	<b>TV-MA</b>	Mature audience only

- ◆ **MPAA:** To adjust movie blocking level in the US. You can select between N/A, G, PG, PG-13, R, NC-17, or X.

The movie Ratings in the US are defined as following.

<b>N/A</b>	Not applicable	<b>R</b>	Restricted
<b>G</b>	General audience	<b>NC-17</b>	No one 17 and under limited
<b>PG</b>	Parental guidance suggested	<b>X</b>	Adult audience only
<b>PG-13</b>	Parents strongly cautioned		

- **Canada:** Press ► to set Canadian English and French ratings.



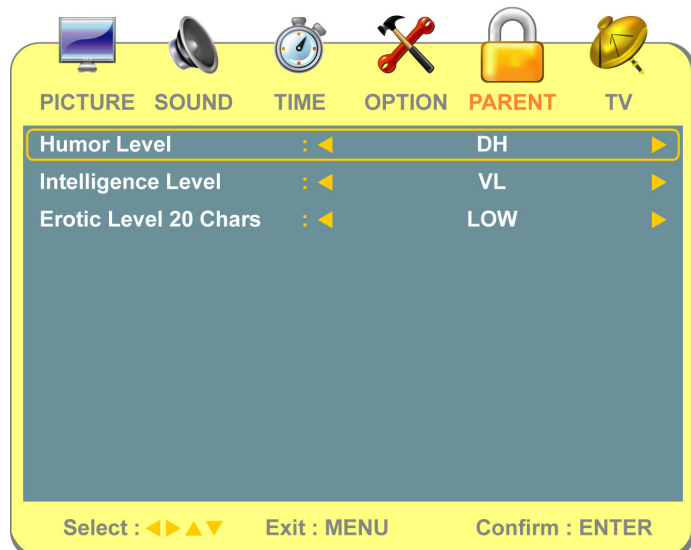
- ◆ **Canada Eng:** To adjust blocking level in English-speaking region of Canada. You can select between E, C, C8+, G, PG, 14+, 18+. The Canadian English Ratings are defined as following.

<b>E</b>	Exempt	<b>PG</b>	Parental guidance
<b>C</b>	Children	<b>14+</b>	Viewers 14 years and older
<b>C8+</b>	Children eight years and older	<b>18+</b>	Adult programming
<b>G</b>	General programming, suitable for all audiences		

- ◆ **Canada Fre:** To adjust blocking level in French-speaking region of Canada. You can select between E, G, 8 ans +, 13 ans +, 16 ans +, 18 ans +. The Canadian French Ratings are defined as following.

<b>E</b>	Exempt	<b>13 ans +</b>	Not appropriate for children of less than 13 years
<b>G</b>	General	<b>16 ans +</b>	Not appropriate for children of less than 16 years
<b>8 ans +</b>	Children eight years and older	<b>18+</b>	Reserved to adults

- **RRT Setting:** To set Rating Region Table that defines the rating standard for a particular geographic region and/or country. Press ► to enter the setting.



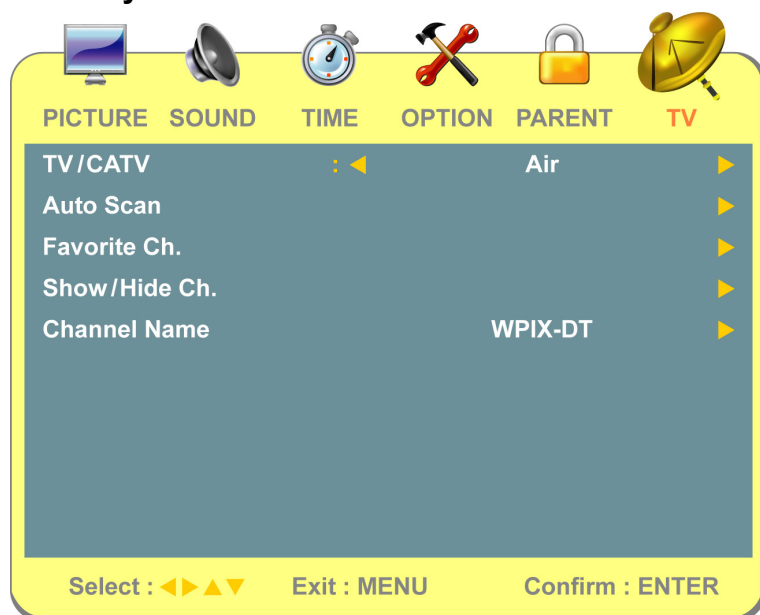
**Note:** This picture is an example of the content of RRT Setting. However, the selections and sub-selections of RRT Setting may be different in your OSD menu according to the local broadcasting system.

- **Reset RRT:** Press ► to reset RRT Setting.

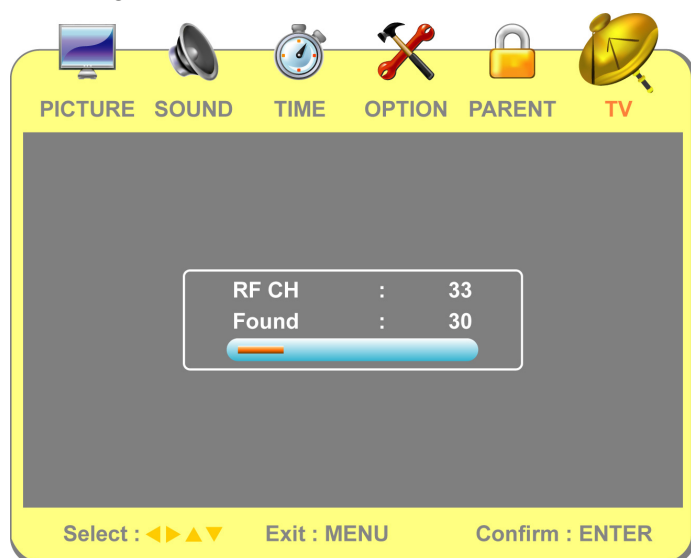
## TV Menu

—To set up for TV

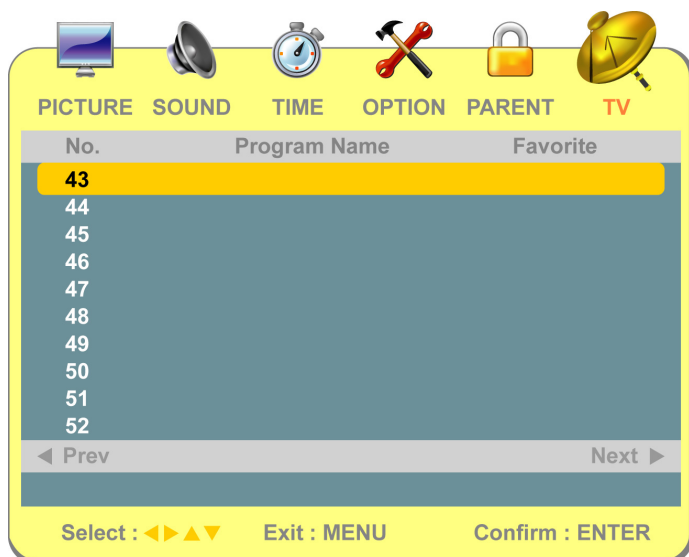
It is only active in TV source.



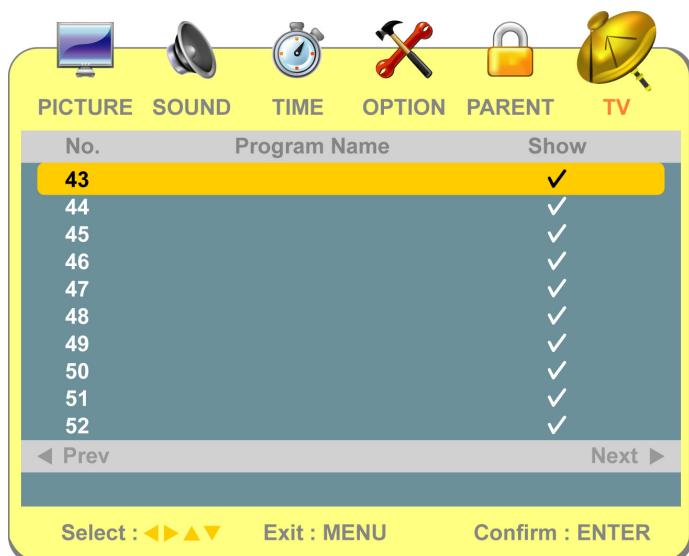
- **TV/CATV:** To select Cable or Air as the TV source.
- **Auto Scan:** To auto scan the TV or DTV channels. Select Air or Cable in TV/CATV option, and press ► to start auto scanning TV channels. Press **MENU** again at any time to interrupt scanning.



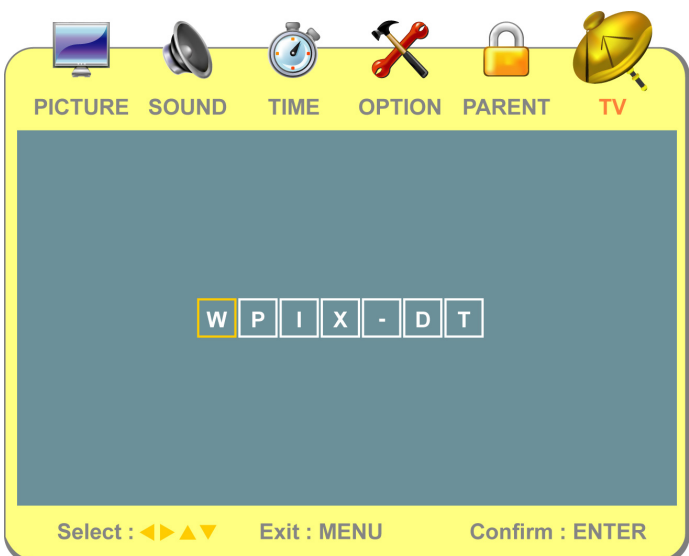
- **Favorite Ch.:** To set your favorite channels into memory. Press **ENTER** to confirm/ cancel your favorite channels.



- **Show/Hide Ch.:** Press **ENTER** to skip the selected channel. To restore the channel, press **ENTER** again.



- **Channel Name:** Press ▶ to edit a name for the current channel. Use ▲ ▼ to choose letters or signs, ◀ ▶ to move forward or backward, and then press **MENU** or **ENTER** to exit.



## TECHNICAL SPECIFICATION

LCD	Type	19.05" TFT Active Matrix 0.285 (H) x 0.285 (V) pixel pitch
	Color Filter	RGB vertical stripe
	Glass surface	Anti-Glare
Input signal	RGB	RGB analog (0.7/1.0 Vp-p, 75 ohms) Separate Sync, fh: 30-82 kHz, fv:50-75 Hz
	RF	TV system Antenna / NTSC+ATSC TV Cable system / CATV + Digital Cable
	Video	1 composite RCA, 1 S-Video, 1 YPbPr component, 1 HDMI
	Audio	1 mini-stereo, 1 pair of RCA (L/R) stereo
Compatibility	PC	Up to 1440 x 900 Non-interlaced
Resolution	Recommended and supported	1440 x 900 @ 60 Hz 1360 x 768 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 768 @ 60 Hz 1024 x 768 @ 60, 75 Hz 800 x 600 @ 60, 75 Hz 640 x 480 @ 60, 75 Hz
Speaker Output		2.5W x 2 @THD=10%
Audio Output		1 Headphone jack
Power	Voltage	100-240 VAC, 50/60 Hz (auto switch)
Display area	Full Scan	410.4mm (H) x 256.5mm (V) 16.2" (H) x 10.1" (V)
Operating conditions	Temperature	32°F to + 104°F ( 0°C to + 40°C)
	Humidity	20% to 65% (no condensation)
	Altitude	To 10,000 feet (3,000m)
Storage condition	Temperature	-4°F to + 140°F (-20°C to + 60°C)
	Humidity	10% to 90% (no condensation)
	Altitude	To 40,000 feet (12,000m)
Dimensions	Physical	443.0mm (W) x 382.0mm (H) x 202.5mm (D) 17.4" (W) x 15.0" (H) x 8.0" (D)
Weight	Net	4.93 kg (10.9 lb)
Regulations		UL, FCC-B (Doc-B)
Power saving modes	On	< 55 W (blue LED)
	Stand by	< 3 W (orange LED)
<b>Preset Timing Mode</b> (Pre-adjusted to GTF® 1440 x 900 @ 60 Hz) <b>Warning:</b> Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the LCD TV		

**Note:** Product Specifications are subject to change without notice.

## SAFETY PRECAUTIONS

This LCD TV is manufactured and tested to insure the user's safety. Improper use or installation may result danger to the LCD TV as well as to the user. Carefully go over the following WARNINGS before installation and keep this guide handy.

### WARNINGS

- This LCD TV should be operated only at the correct power sources indicated on the label on the rear end of the LCD TV. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- Do not try to repair the LCD TV yourself as it contains no user-serviceable parts. The LCD TV should only be repaired by a qualified technician.
- Do not remove the LCD TV cabinet. There is high-voltage parts inside that may cause electric shock. even when the power cord is disconnected .
- Stop using the LCD TV if the cabinet is damaged. Have it checked by a service technician.
- Put your LCD TV only in a clean, dry environment. Unplug the LCD TV immediately if gets wet and consult your service technician.
- Always unplug the LCD TV before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- Keep the LCD TV away from magnetic objects, motors, TV sets, and transformer.
- Do not place heavy objects on the cable or power cord.
- For PLUG CABLE EQUIPMENT, the Socket-outlet shall be installed near the equipment and shall be easily accessible.

## CARE AND MAINTENANCE

### Care

- Avoid exposing your LCD TV directly to sunlight or other heat source.
- Place your LCD TV away from the sun to reduce glare.
- Put your LCD TV in a well ventilated area. Do not place anything heavy on top of your LCD TV.
- Make certain your LCD TV is installed in a clean and moisture-free area.
- Keep your LCD TV away from magnets, motors, transformers, speakers, and TV sets.

### Safety Tips

- If smoke, abnormal noise or odor came out of your LCD TV, remove the power cord immediately and call your service center.
- CAUTION-Never remove the rear cover of your LCD TV cabinet. The display unit inside contains high-voltage parts and may cause electric shock to human bodies.
- Never try to repair your LCD TV yourself. Always call your service center or a qualified technician to fix it.

## TROUBLESHOOTING

### No power

- Make sure A/C power cord is securely connected.
- Plug another electrical device into the power outlet to verify that the outlet is supplying proper voltage.

### Power on but no screen image

- Make sure the video cable supplied with the TV is tightly secured to the video output port on back of video source (DVD, VCR...). If not, tightly secure it.
- Adjust brightness.
- Make sure all signal cables are installed.

### Wrong or abnormal colors

- If any colors (red, green, blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the TV unit to another video source or use another TVs to make sure the video source was not causing the problem.



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