

LCD Display & TV

Operating Instructions



LCD TV

A Wide Array of Screen Settings

You can choose different screen settings depending on the type of program you are watching or the surrounding conditions (the lighting or the outside weather conditions). You can switch among the Sport, Movie, Music and Normal options , or you can configure the screen settings yourself.

A Wide Array of Sound Settings

You can choose an optimal sound setting for the type of program you are watching. You can switch among the Music, Movie, News and Normal options , or you can configure the settings yourself.

Favorite Channel Memory

You can store your favorite channels in the order of preference for easy channel selection.

Teletext Function

You can display teletext information at any time on your TV.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.

NOTICE

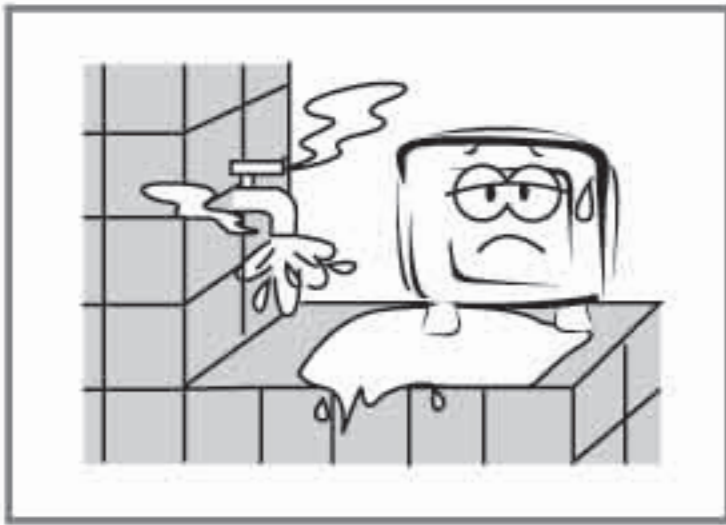
If the same pattern is continuously displayed on the Monitor / TV for a long period of time, it can be the situation when the image “Sticks” to screen.

Safety Instructions



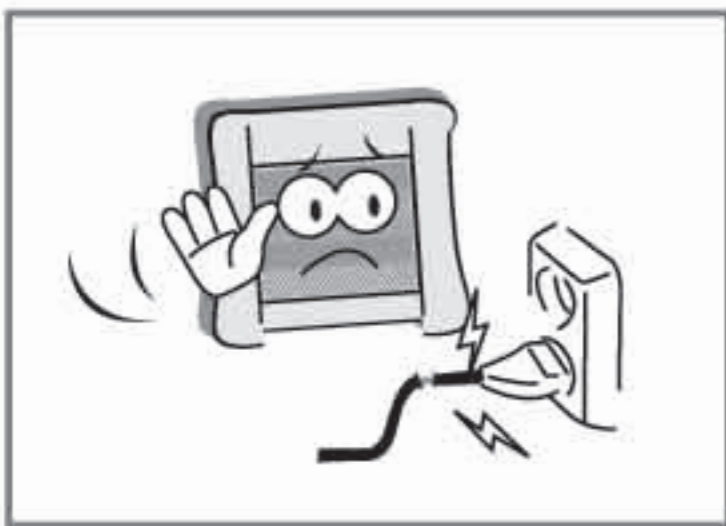
The unit should not be placed in a built-in installation such as a book-case, limited space rack unless proper ventilation is provided.

- This may cause fire by overheating or damage the unit by falling.



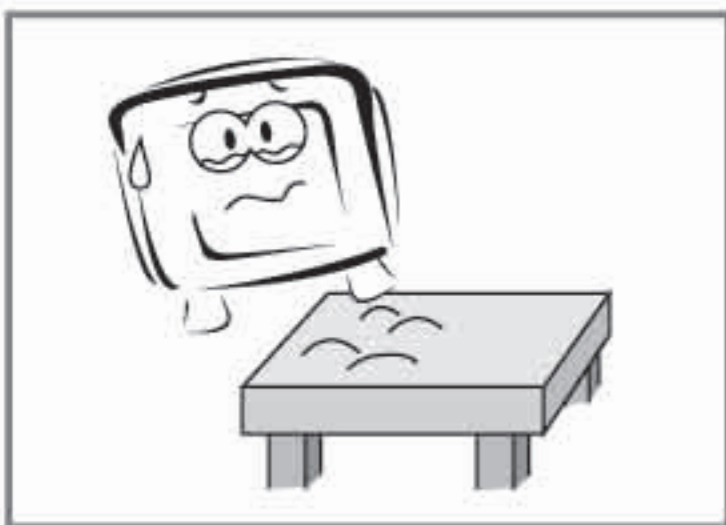
Do not use the unit near water, oil or inflammables.

- This may cause a fire.



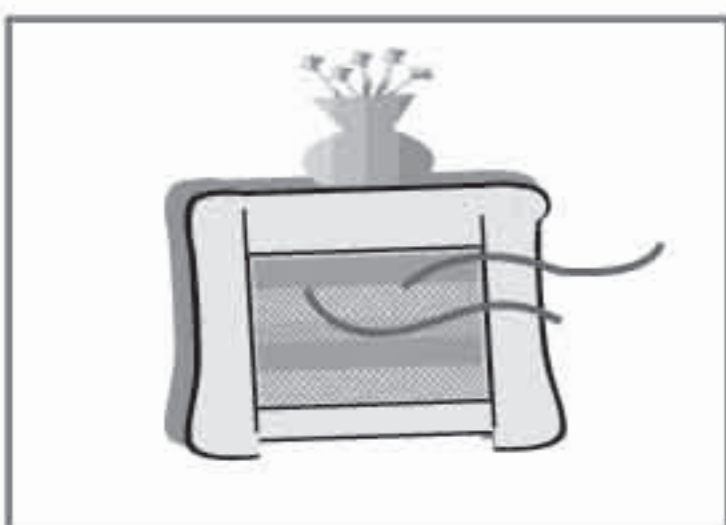
Do not use a damaged plug and do not let the power cord touch a heat source.

- This may cause an electric shock or fire.



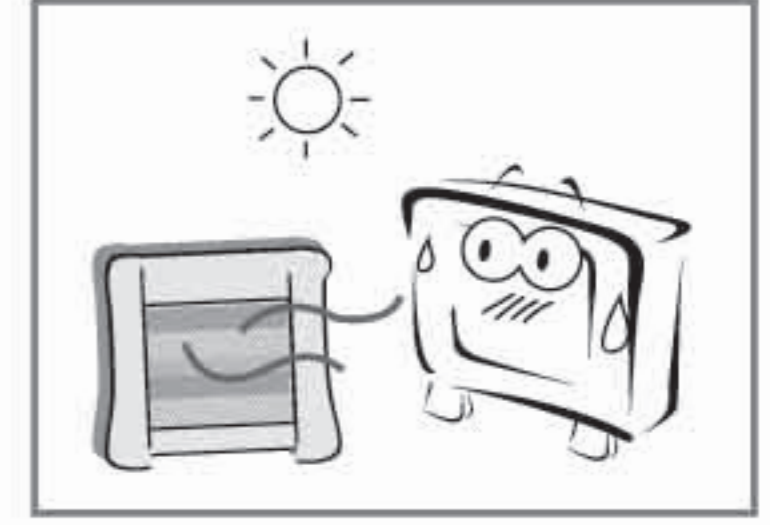
Place the unit on a flat and stable surface.

- The unit can cause injury or damage the unit by falling.



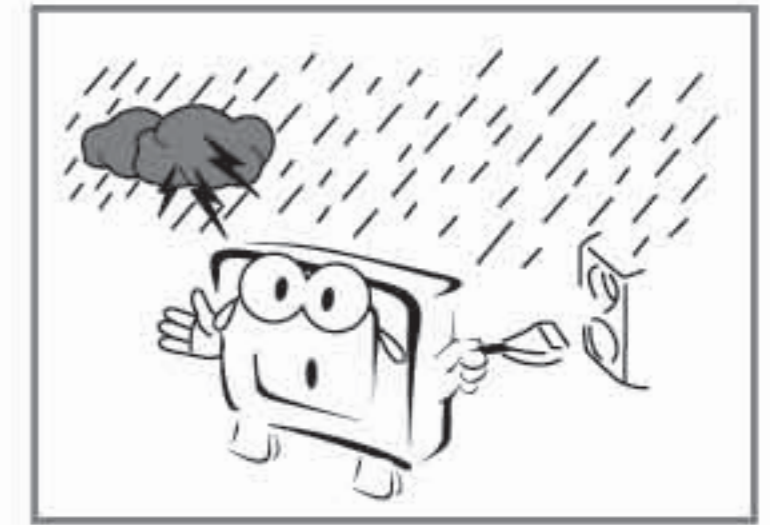
Keep the power adapter away from any heat source.

- This may cause a fire.

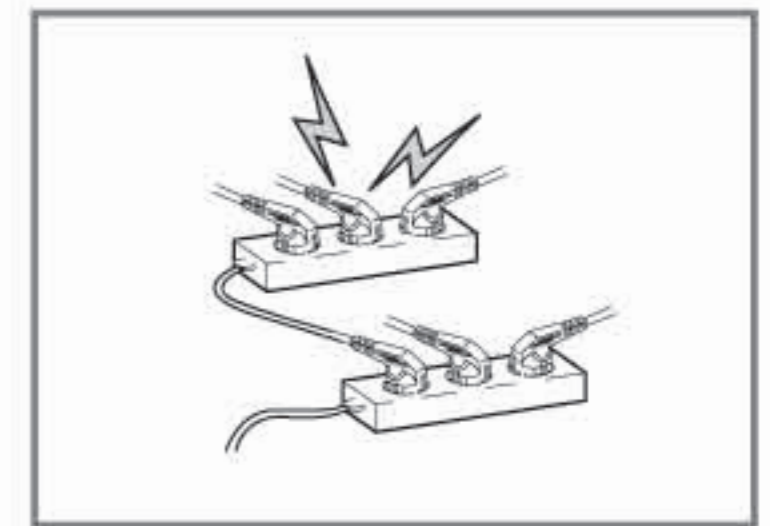


Do not use the unit in direct sunlight and keep it away from heaters, stoves, and other sources of heat.

- This may cause a fire.

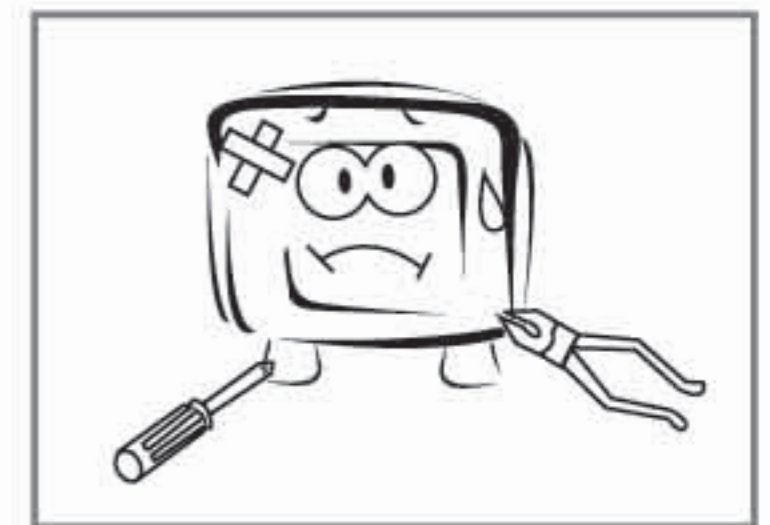


During storm conditions (especially when there is lightning) unplug your TV set from the main electrical outlet and antenna.



Do not connect too many extension cords or plugs to an outlet.

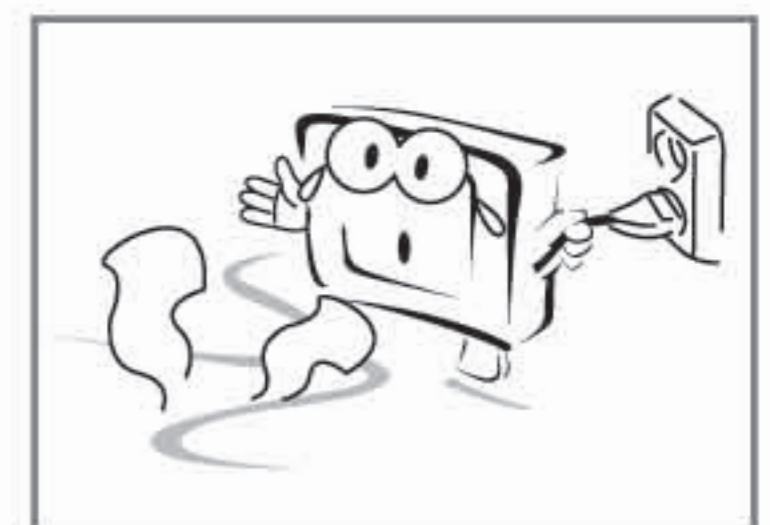
- This may cause a fire.



Do not attempt to service the unit.

Contact an authorized dealer or repair service.

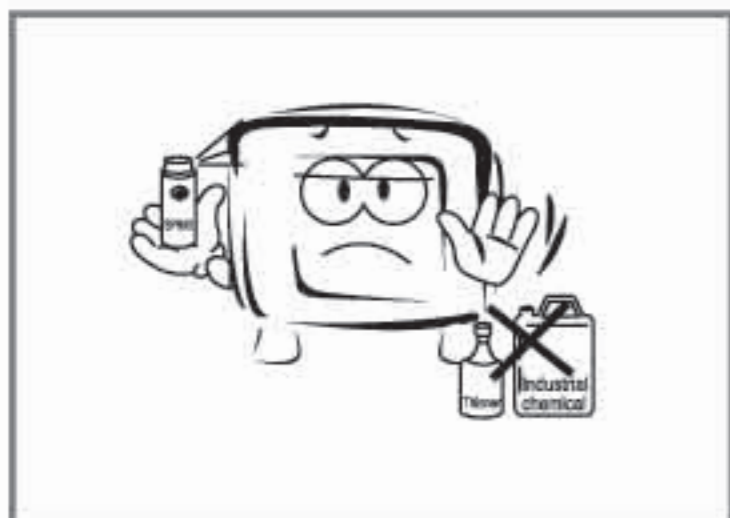
- Servicing the unit yourself may cause an electric shock or fire.



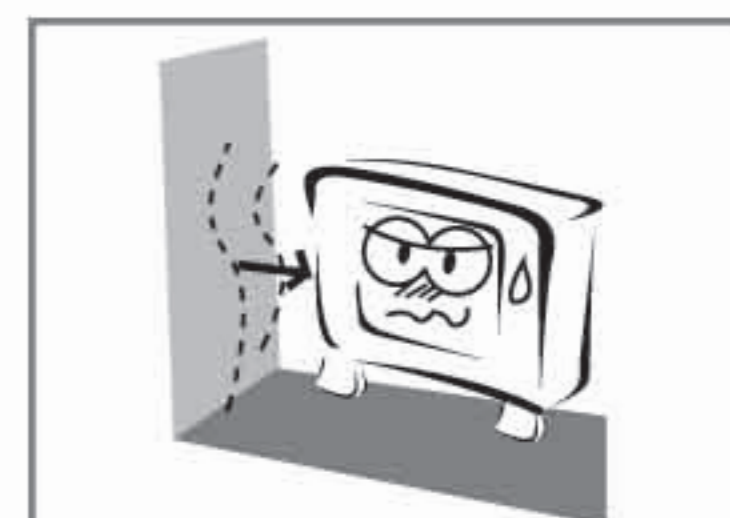
If there are any unusual sounds or smells coming from the unit, unplug it immediately and contact an authorized dealer or repair service.

- This may be caused by an electric shock or fire.

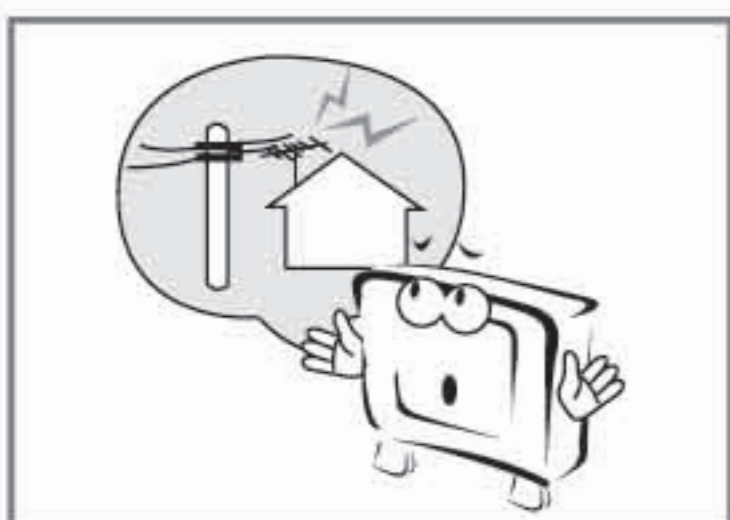
Safety Instructions



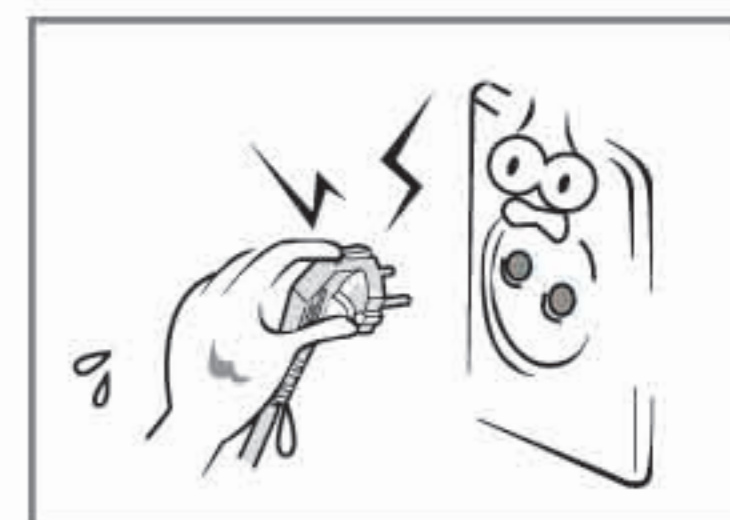
Do not use or store inflammable substances near the unit
- This may cause an explosion or fire.



Place the unit away from the wall for well ventilation.
- This may cause a fire.



Place the antenna away from the electric wire, not to touch even though it falls down by wind.
- This may cause an electric shock.



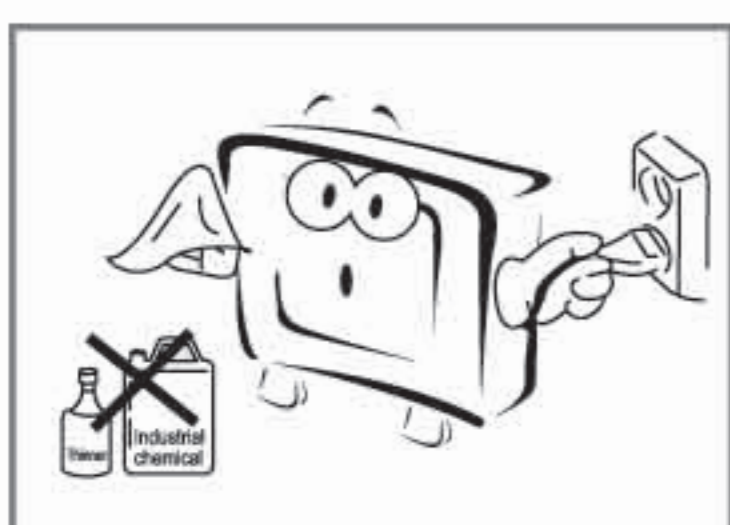
Do not touch the plug with wet hands.
- This may cause an electric shock.



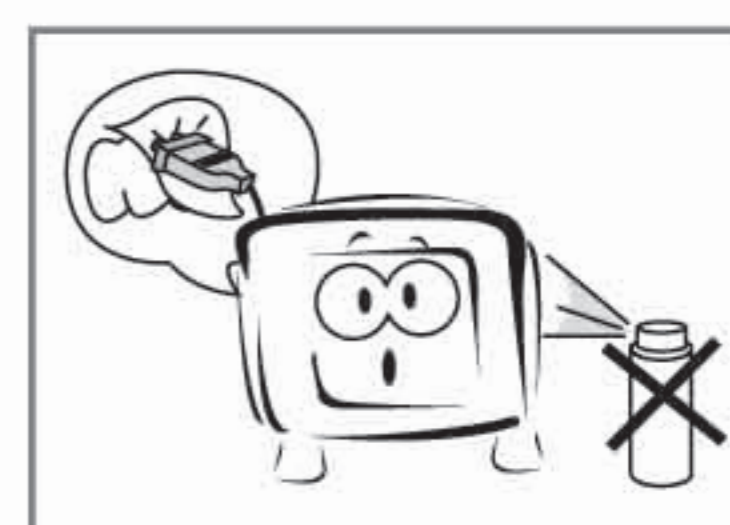
Be sure to plug in tightly and hold the plug, not the cord when disconnecting the plug from the wall outlet.
- This may cause a fire.



If an outside antenna is connected to the unit, do not let the rain water get into the unit by bending or antenna wire sealing
- This may cause an electric shock or fire.



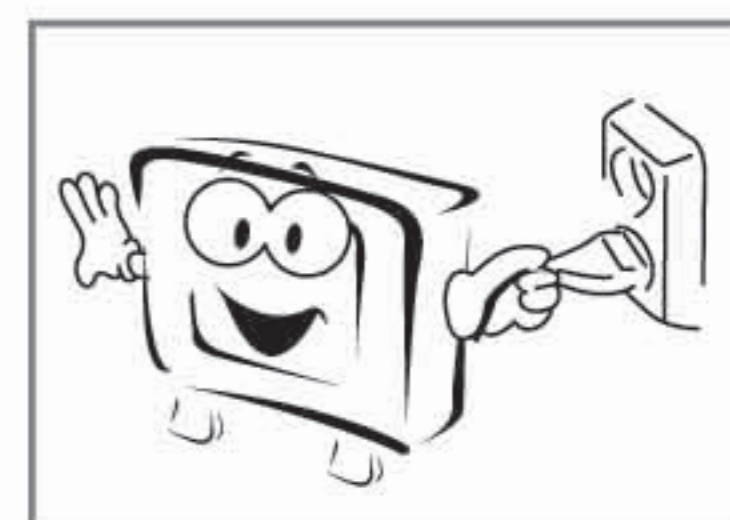
Unplug the unit from the wall outlet before cleaning. Use a smooth cloth. Do not use industrial chemicals.
- This may cause an electric shock or fire.



If the connector between the plug and the pin is dusty or dirty, clean it. Do not spray detergent directly on the unit.
- This may cause an electric shock or fire.



Do not touch the antenna wire and disconnect the plug from the electrical outlet during storms or lightening.
- This may cause an electric shock or fire.



Disconnect the plug from the outlet if it is not used for a long period of time.
- This may cause an electric shock or fire.

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Unpacking your TV

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

Accessories



Remote Control & Batteries (AAA x 2)



Operating Instructions



Power Cord



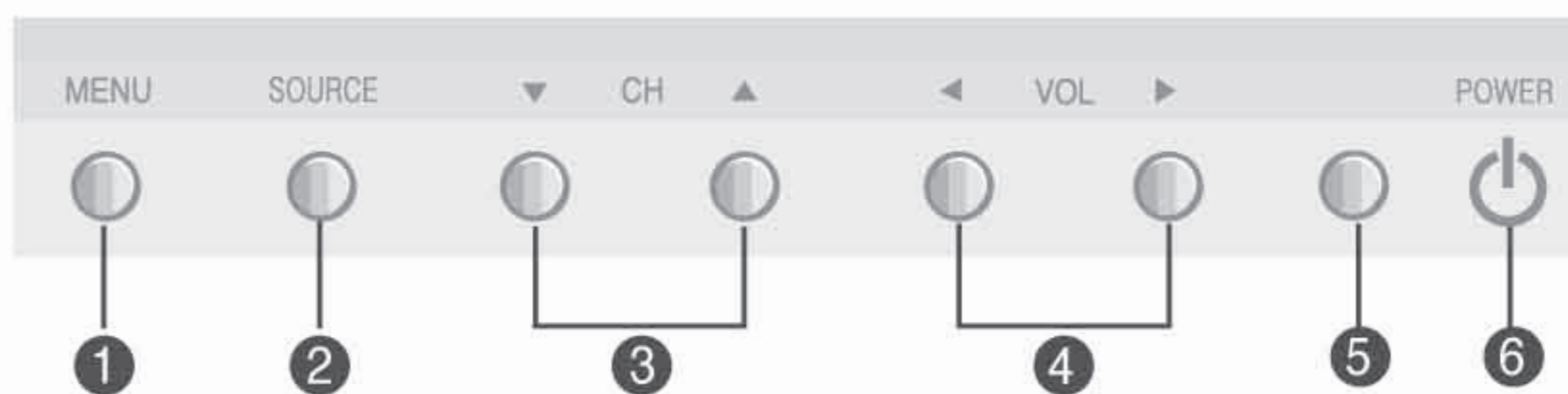
DC Adapter(for 30")

Viewing the Control Panels

Front View



Bottom



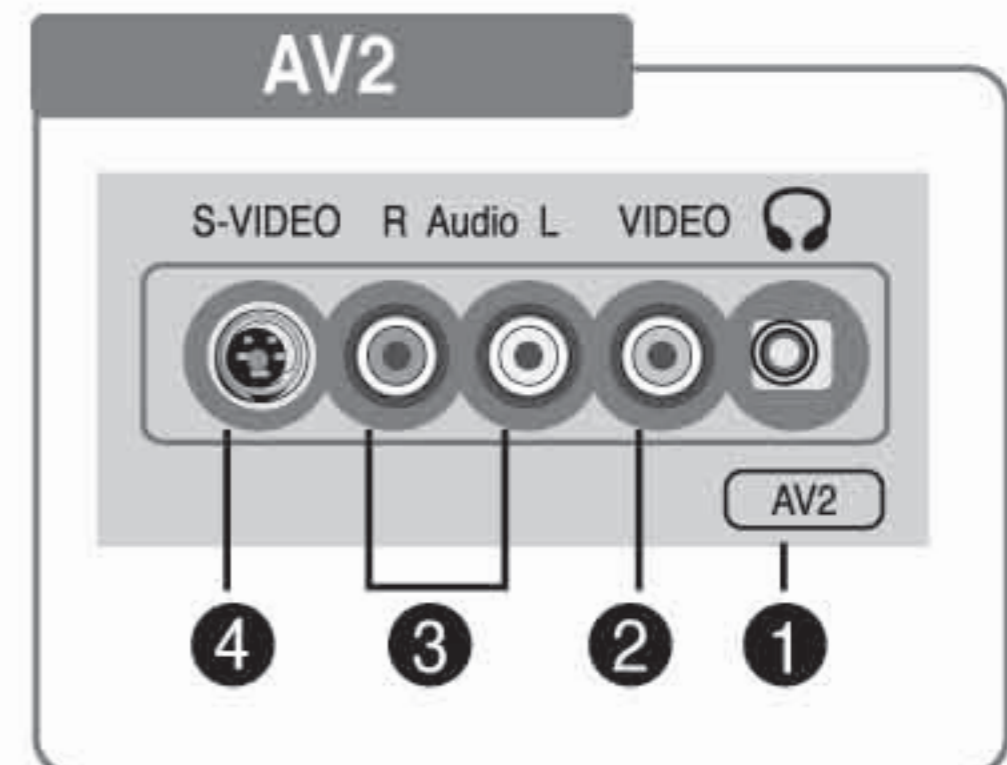
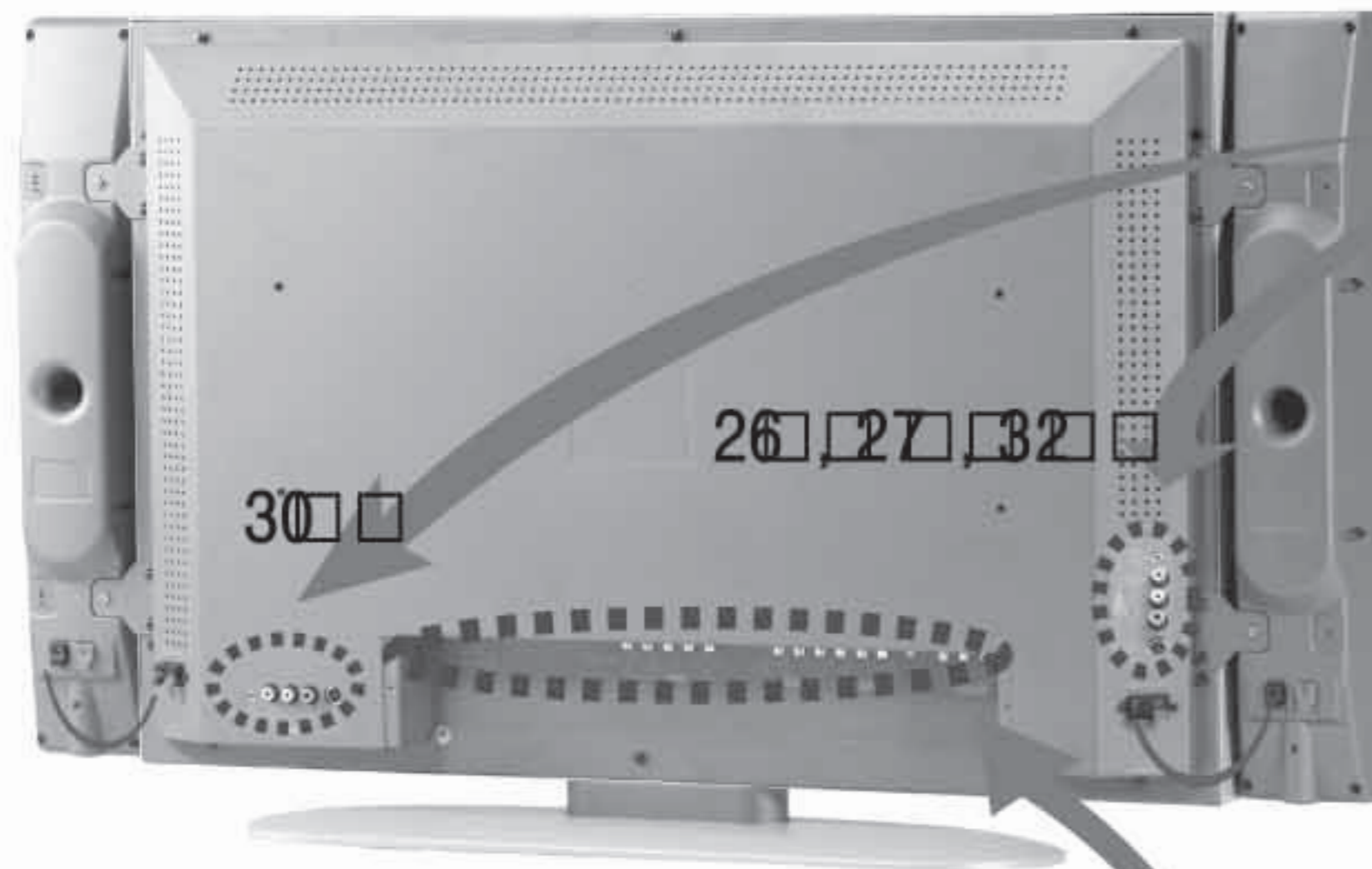
- 1 MENU selection button
- 2 Input source selection button
- 3 Channel selection button
- 4 Volume adjustment button
- 5 Remote control sensor
- 6 Power button & Indicator

Power Indicator Status

Indicator	Status
Red	Stand-by
Green	Power on
Green blinking	Remote control

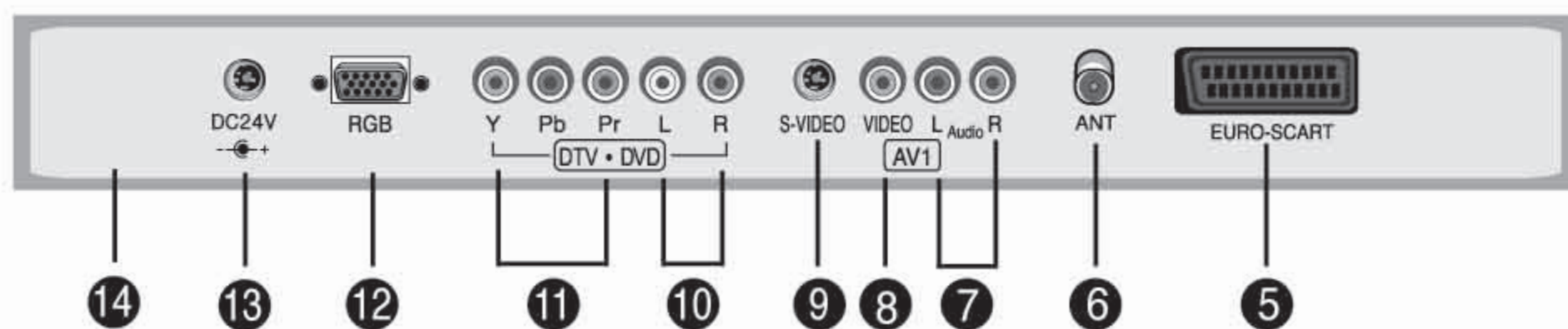
Viewing the Control Panels

Rear View



- 1 Headphone Jack
- 2 AV2 VIDEO Input
- 3 AV2 AUDIO Input
- 4 AV2 S-VIDEO Input

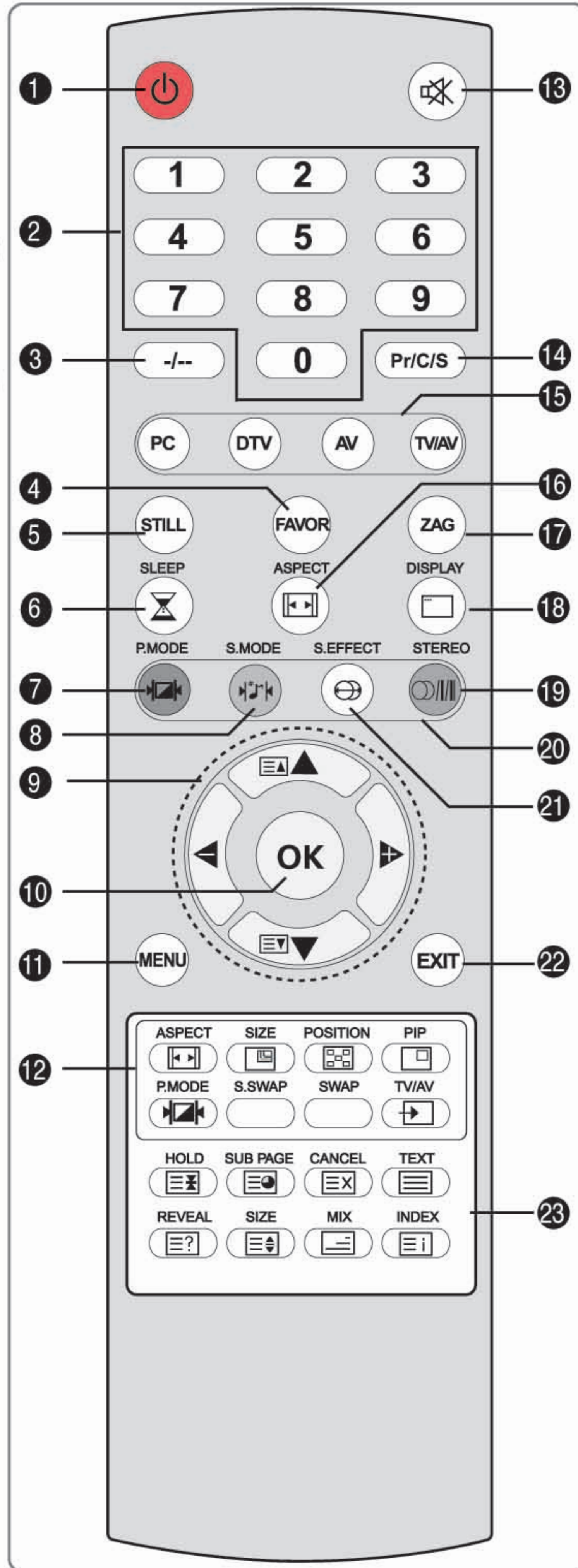
Bottom Side



- 5 EURO-SCART Jack
- 6 Antenna Input Jack
- 7 AV1 AUDIO Input
- 8 AV1 VIDEO Input
- 9 AV1 S-VIDEO Input
- 10 DTV/DVD Audio Input
- 11 DTV/DVD Video (Y/Pb/Pr) Input
- 12 RGB Video Input Connector (PC)
- 13 Power Input Jack(for 27, 30)
- 14 AC Power Inlet(for 26, 32)

Remote Control

- 1 Power On/Off button
- 2 Numeric buttons
- 3 One/Two-Digit Channel Selection
- 4 Favorite Channel Selection (See page 24)
- 5 Picture Still (See page 27)
- 6 Sleep Timer (See page 23)
- 7 Picture Mode Selection (P.MODE) (See page 16)
- 8 Sound Mode Selection (S.MODE) (See page 17)
- 9 Control the Cursor in the OSD Menu
 i (▲) and (▼)
 (Channel Up / Down)
 (Teletext Page Up / Down, Page 29)
 ◀ and ▶
 (Volume Up / Down)
- 10 MENU Confirmation
- 11 Display OSD Menu
- 12 PIP Functions:
 (See page 25~26)
 - PIP On/Off (PIP)
 - Position Selection (POSITION)
 - Size Selection (SIZE)
 - Picture Mode Selection (P.MODE)
 - Swapping main and sub picture (SWAP)
 - Selecting the Input Source (TV/AV)
 - PIP Picture Size Selection (ASPECT)
 - Swapping main and sub Sound (S.SWAP)

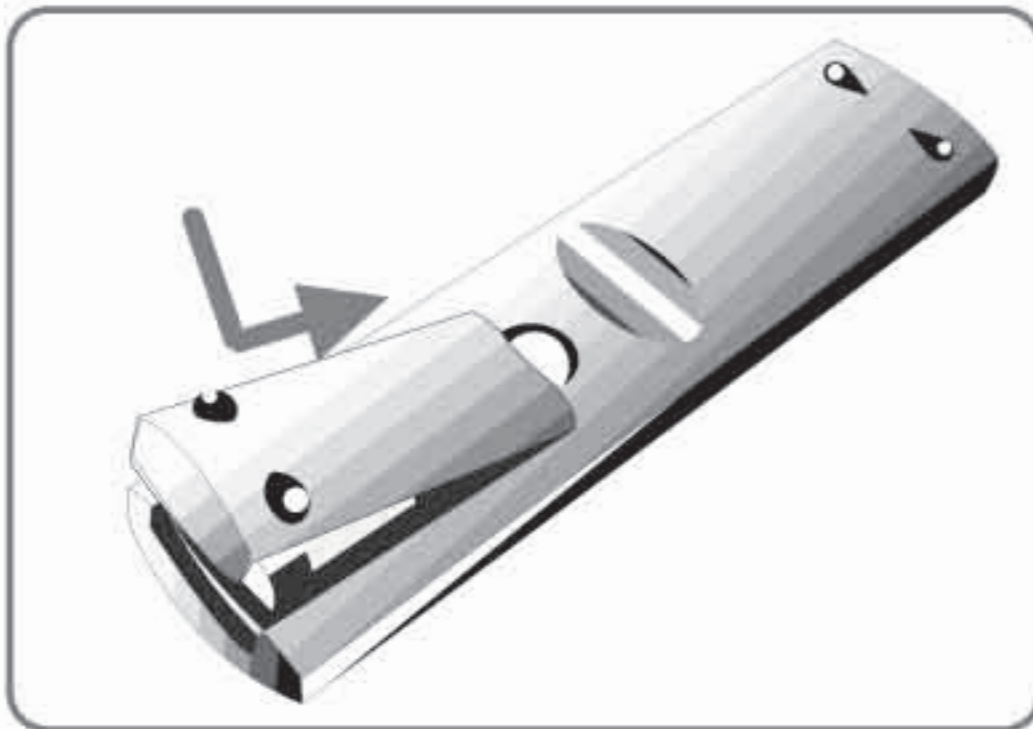


- 13 Temporary Sound Mute
- 14 TV Input Source Selection (See page 14)
- 15 External Source Input Selection (See page 13)
- 16 Picture Size Selection (See page 27)
- 17 Previous Channel
- 18 TV Information Display
- 19 Sound Selection : Mono/Stereo Dual Select (STEREO) (See page 19)
- 20 Fastext Functions : (See page 28)
- 21 Sound Effect Selection (S.EFFECT) (See page 19)
- 22 - Exit from the OSD
 - Display the current time when the OSD is off (See page 21)
- 23 Teletext Functions : (See page 28~29)
 - Teletext On/Off (TEXT)
 - Cancel (CANCEL)
 - Sub Page On (SUB PAGE)
 - Page Hold (HOLD)
 - Index (INDEX)
 - Mix (MIX)
 - Size (SIZE)
 - Reveal (REVEAL)

- ☛ - Makes sure there are no objects between the remote control and its sensor.
- Don't place the remote control near a heater or in damp place.
- A strong blow to the remote control may cause it not to operate.

Inserting Batteries in the Remote Control

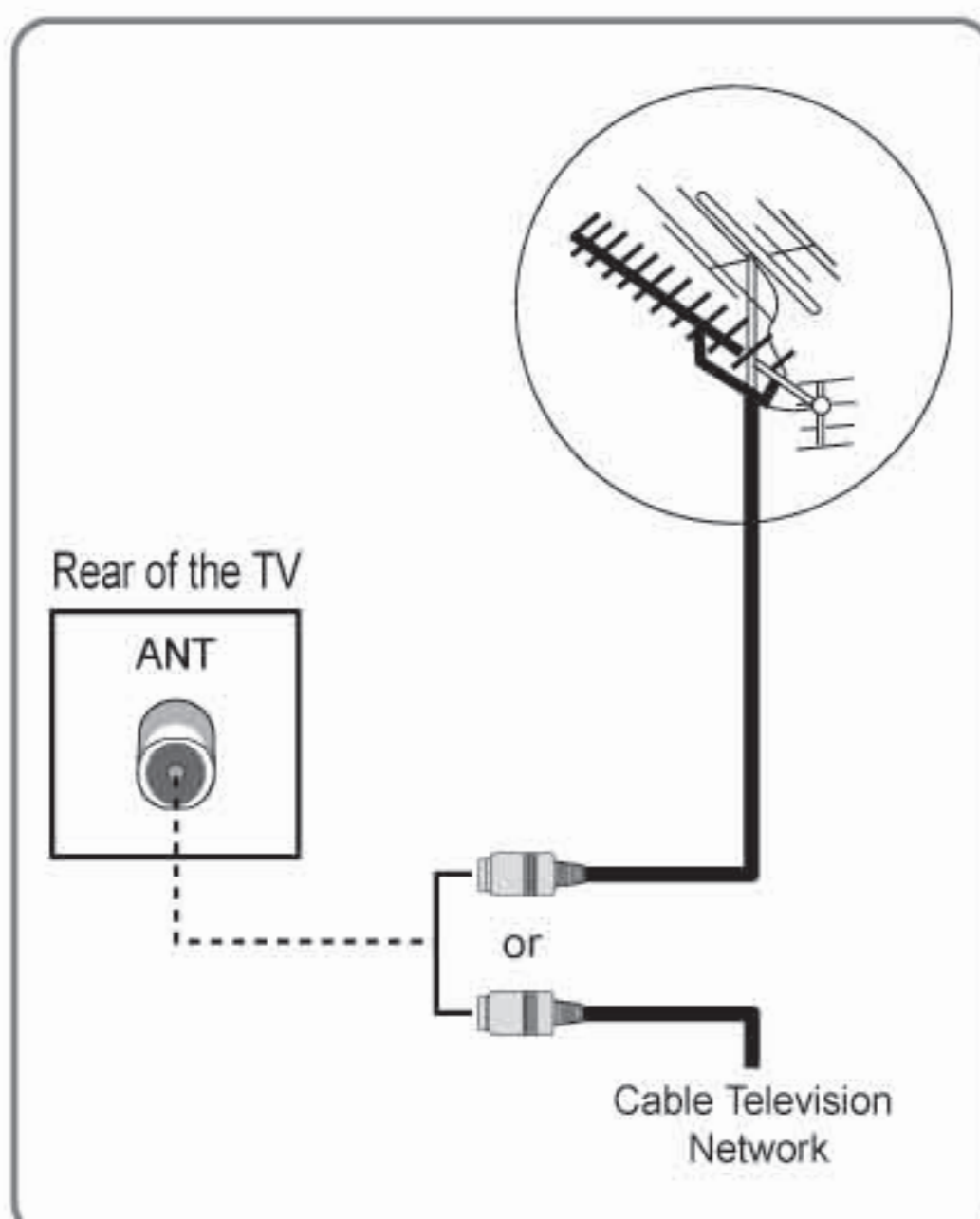
You must insert or replace the batteries in the remote control when you purchase the TV or when you find that the remote control is no longer operating correctly.



- 1 Insert two AAA-size batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.
 - Handle the remote control with care; avoid dropping it, getting it wet, placing it direct sunlight, near a heater, or where the humidity is high .
 - Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

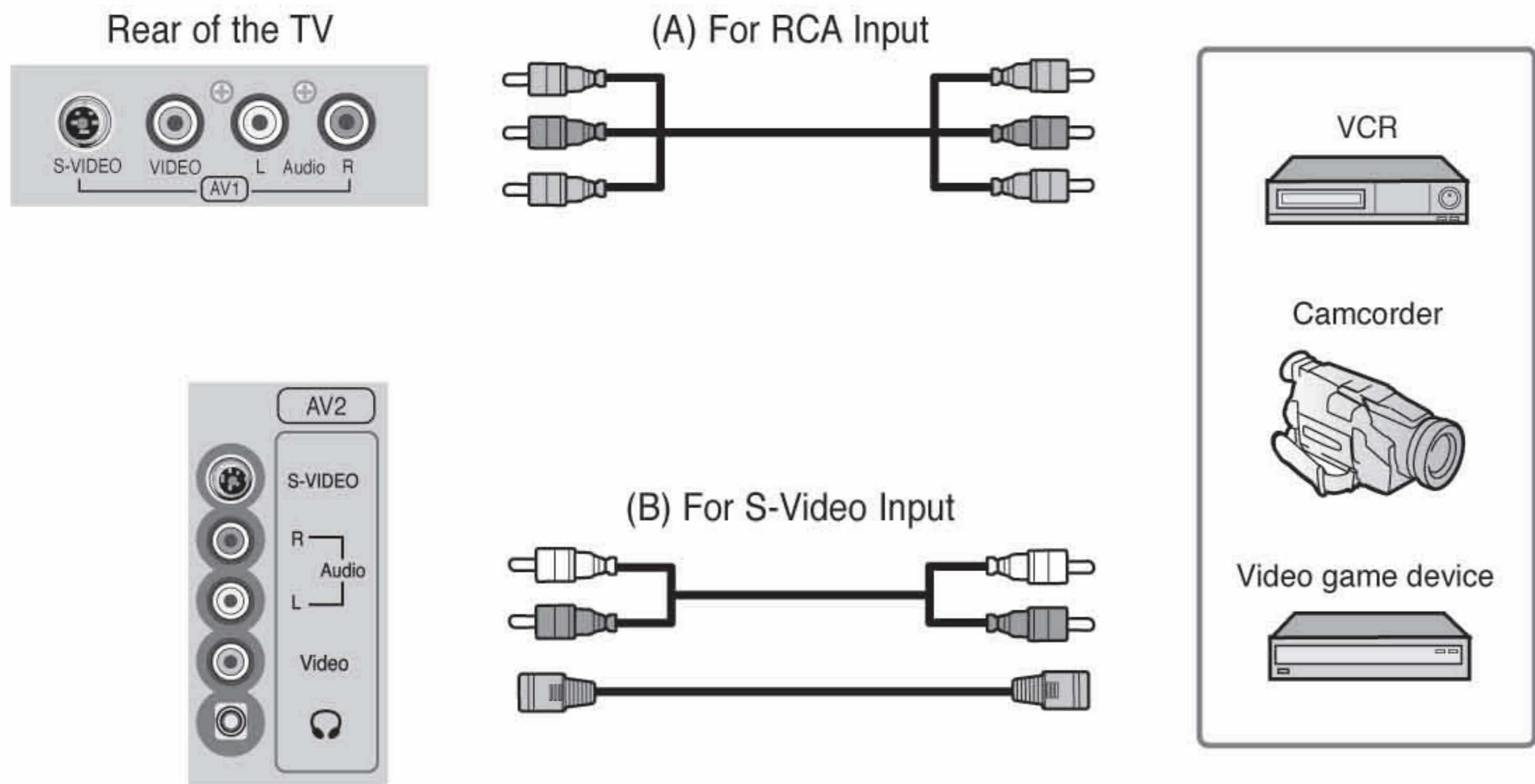
Connecting an Antenna or Cable

To view television channels correctly, a signal must be received by the set from one of the following sources: an outdoor antenna, a cable television system or a satellite dish.



- 1 Connect the antenna or input cable to the 75 ohm coaxial input on the rear of the TV.
- 2 If you are using an indoor antenna, you may need to turn it when tuning your television until you receive a clear picture.

Connecting to the RCA or S-Video Input (AV1 or AV2)



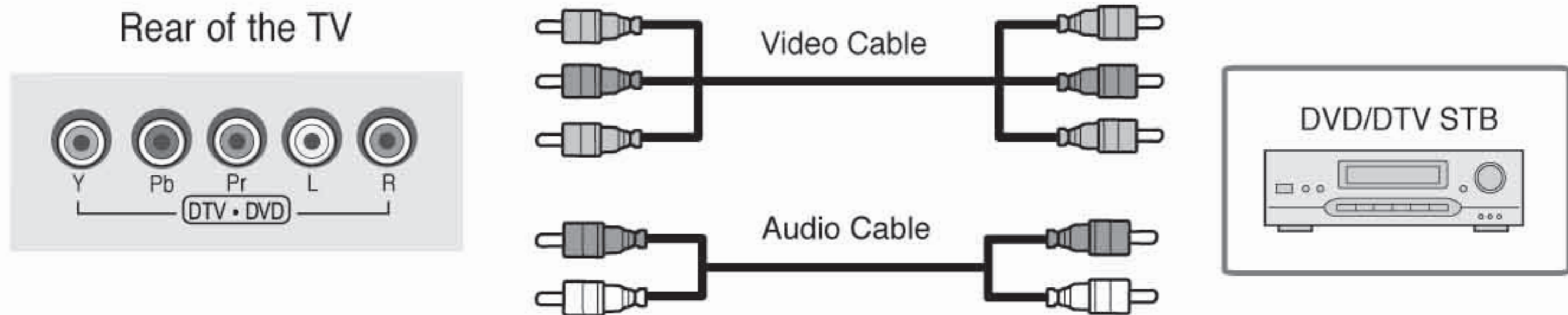
(A) For RCA Input

1. Connect the RCA cable to the input jacks (video+ audio L/R of AV1 or AV2) on the TV and output jacks on the external equipment such as a VCR, camcorder and some video game devices.

(B) For S-Video Input

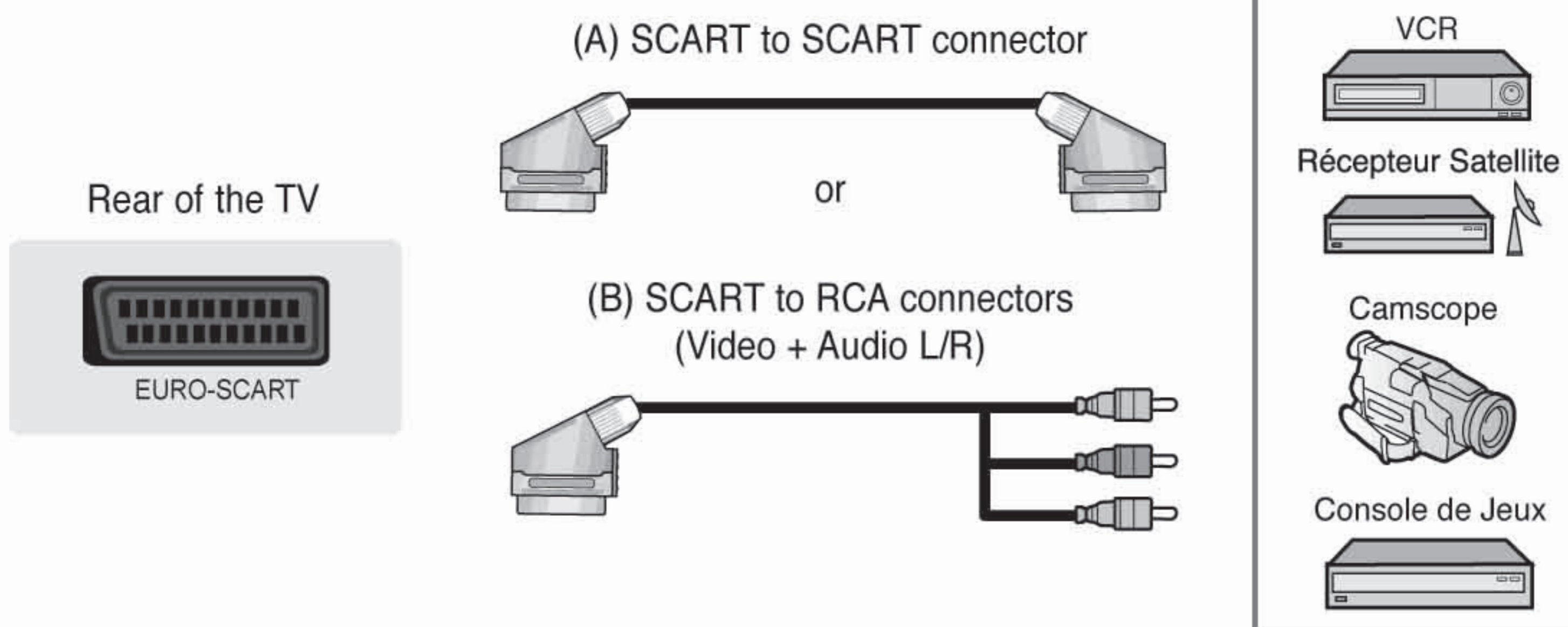
1. Connect the S-Video/RCA (audio L/R of AV1 or AV2) cable to the input jacks on the TV and output jacks on the external equipment such as a VCR, camcorder and some video game devices.
2. If the external equipment has mono audio output, connect it only to left jack of the Audio Input/Output.

Connecting to a DVD or DTV Set-Top Box Input



1. Connect the video cables to the Y, Pb, Pr input jacks (DTV/DVD) on the TV and the Y, Pb, Pr output jacks on the DVD or DTV Set-Top Box.
2. Connect the audio cables to the Audio L/R input jacks (DTV/DVD) on the TV and the Audio output jacks on the DVD or DTV Set-Top Box.
3. If the external equipment has mono audio output, connect it only to left jack of the Audio Input/Output.

Connecting to the SCART Input



- ◆ *The EURO-SCART connector is used for external equipment with RGB output, such as a VCR, satellite receiver, camcorder, or video game devices.*
- ◆ *You can select and set one between the two types of cables (A, B) appropriate for the output jack of external device.*

Connecting the Power Cord and Switching the TV On / Off

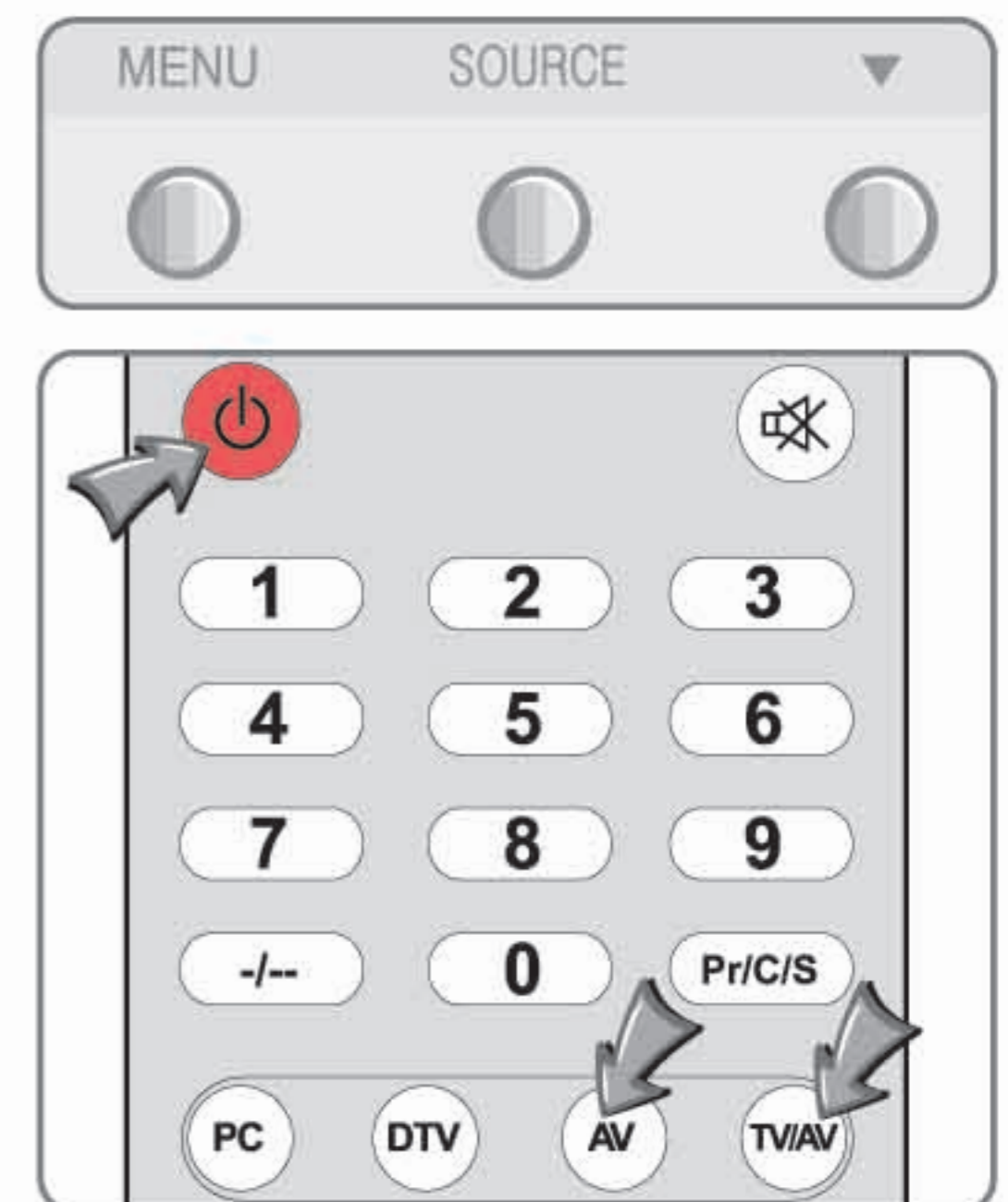
- 1 Connect the power cord to the 24V DC adapter.
- 2 Connect the DC adapter for your TV to the power input on the back of your TV
- 3 Plug the power cord for the TV into a nearby outlet.
- 4 Press the **POWER**, **CH** or **TV/AV** button on the front panel of your set or press the **POWER** (⏻), **CHANNEL** (⏪), **TV/AV** (TV/AV), or **Number** (0~9) button on the remote control. The LED lamp will blink and your TV will be turned on.
- 5 To switch your TV off, press the **POWER** (⏻) button again



Selecting a Picture from External Sources

After your various systems (audio and video) have finished, you can view any of the sources by selecting the appropriate external input.

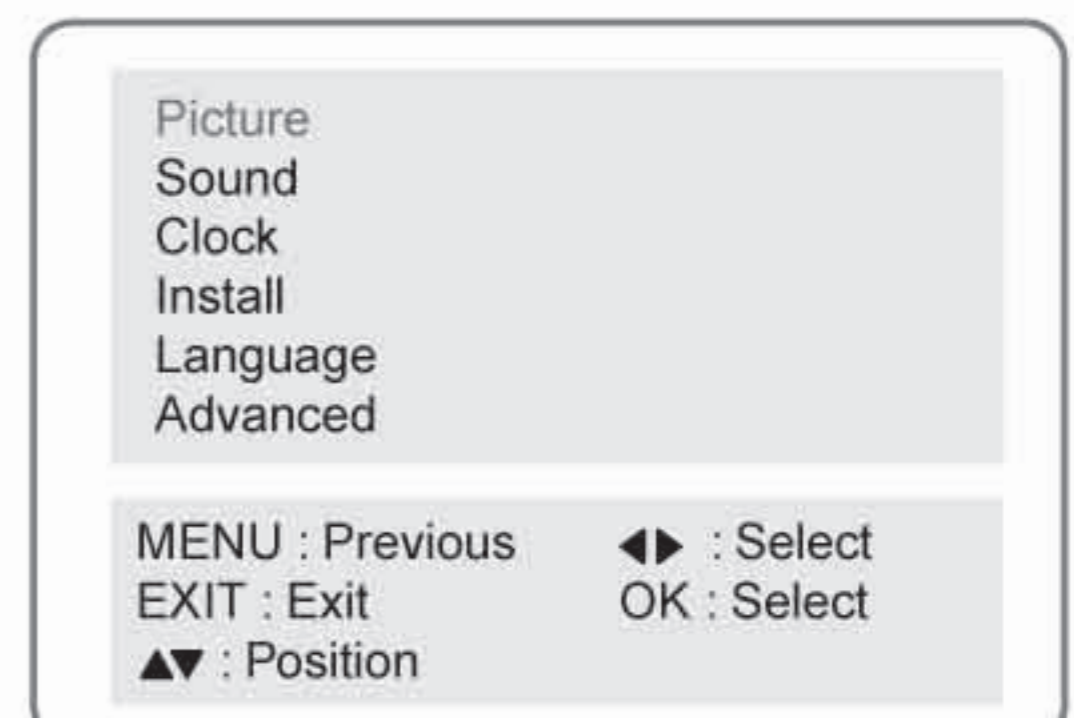
- 1 Make sure all the necessary connections have been made.
- 2 Press the **POWER** (⏻) button to switch the TV on.
- 3 Select the favorite source by pressing the **TV/AV** (TV/AV) button one or more times.
 - The Input Source (TV/AV) is displayed in following order :
TV → EURO SCART → AV1 VIDEO → AV1 S-VHS → AV2 VIDEO → AV2 S-VHS → DTV → PC
 - The Video (AV) is displayed in the following order :
AV2 S-VHS → AV2 VIDEO → AV1 S-VHS → AV1 VIDEO → EURO SCART → TV



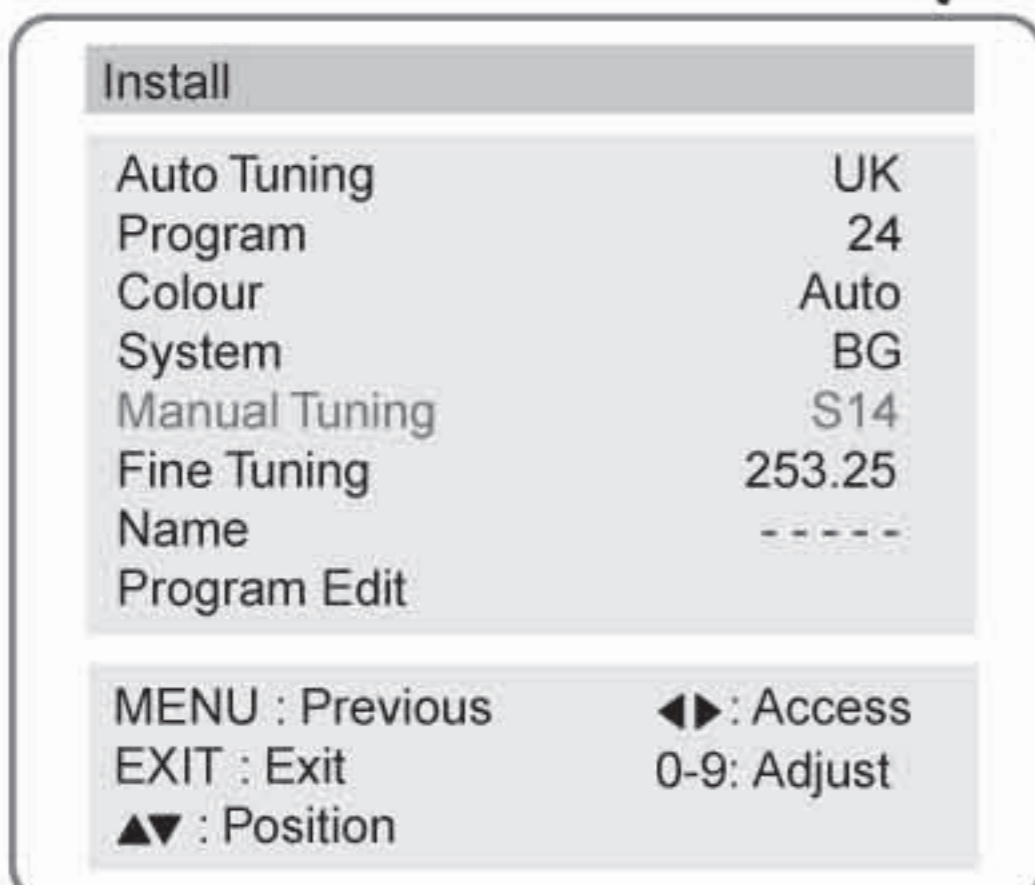
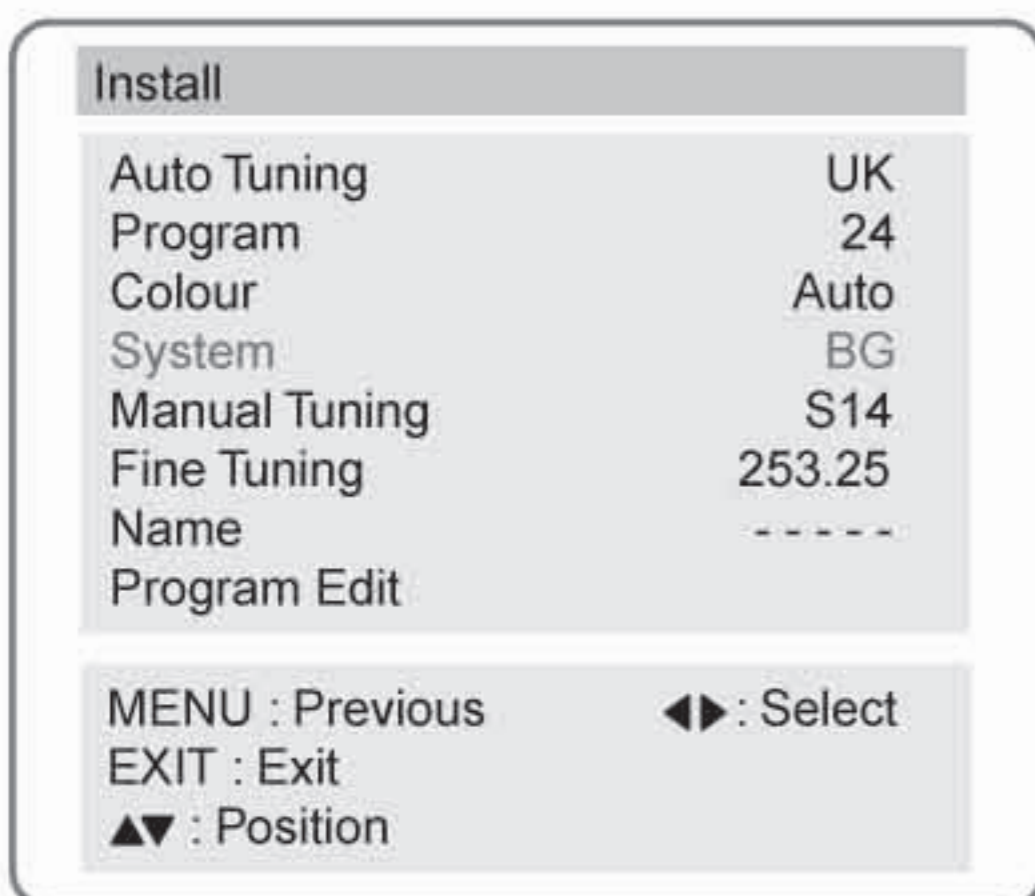
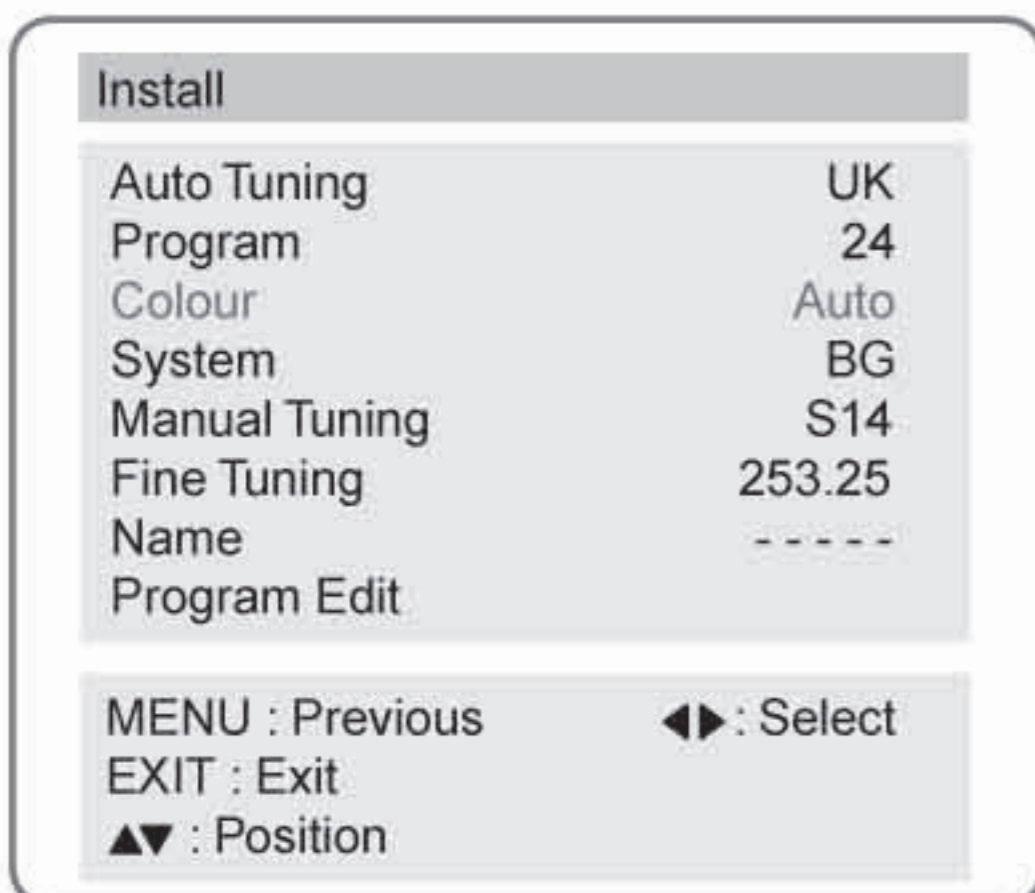
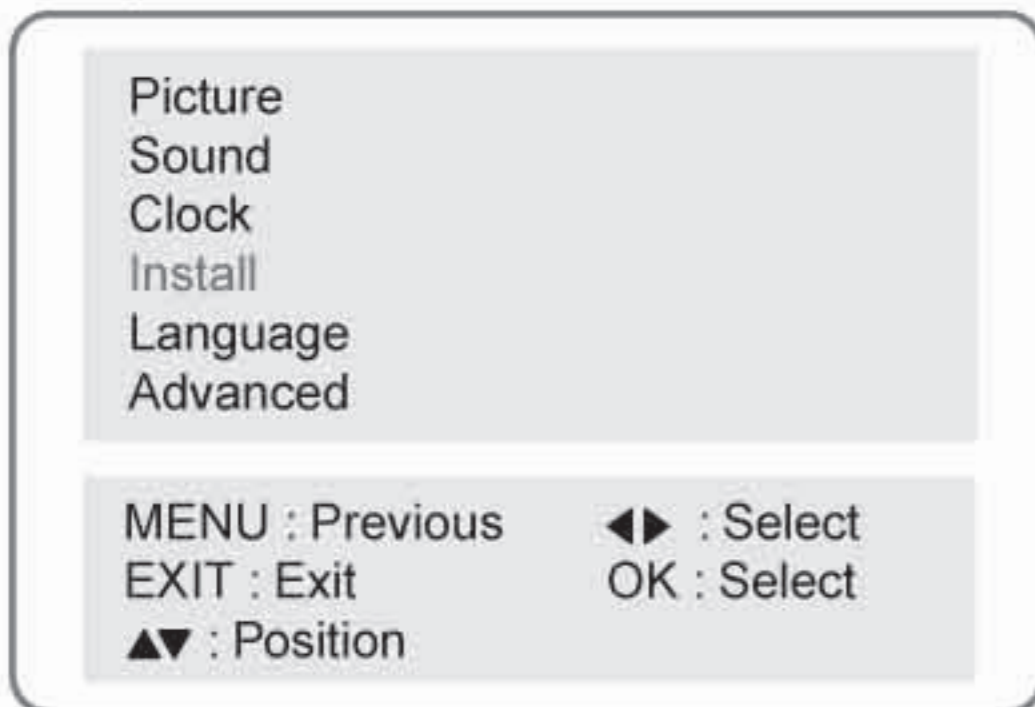
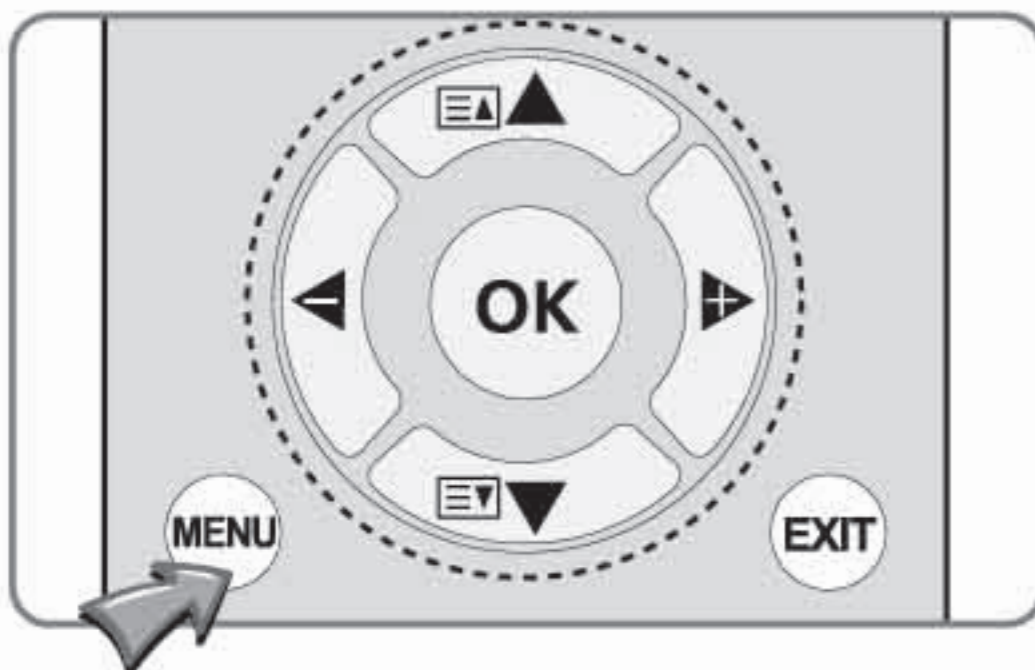
Selecting your Language

When you start using your TV for the first time, you must select the language in which to display all on-screen menus.

- 1 Press the **MENU** button.
- 2 Press the (⏪) button to select the **Language** and then press the **OK** or (□) button.
- 3 Select the appropriate language by pressing the (⏪) button and then press the **OK** or (□) button.
- 4 Press the **MENU** button to return to the previous menu.



Storing Channels in Memory



- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Install** group and press the (**Ⓜ**) or **OK** button.
- 3 Press the (**i**) button to select **Auto Tuning**, and press the (**Ⓜ**) button to select the **country**. Then press the **OK** button for about 3 seconds.

You can select the countries in following order.

BE (Belgium) → **DE** (German) → **ES** (Spain) → **FR** (France) → **IT** (Italy) → **NL** (Netherlands) → **SE** (Sweden) → **CH** (Switzerland) → **UK** (United Kingdom) → **E/EURO** (East Europe) → **Other** (Others)

- You can stop the Auto tuning by pressing the **MENU** button during auto tuning. When you stop it, menus on the screen will be sorted and changed to the **Program Edit** screen automatically.
- When the Auto tuning is finished, menus on the screen will be changed to the **Program Edit** screen automatically.

- 4 Press the (**i**) button to select **Program** and press the (**Ⓜ**) button. The channels will be stored one by one.

- 5 Press the (**i**) button to select **Colour**.

- Press the (**Ⓜ**) button to change the Colour System. You can select the Colour System in the following order.
Auto → **PAL** → **SECAM** → **NTSC**

- 6 Press the (**i**) button to select **System**.






- Press the (**Ⓜ**) button to change the Sound System if there is no sound. You can select the Sound System in the following order.
BG → **DK** → **I** → **L** → **L'** → **M**

- ☛ Use the Auto tuning during a broadcast after connecting the antenna.
















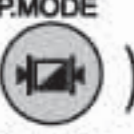



- 7 Press the (**i**) button to select **Manual Tuning**. Press the (**Pr/C/S**) button to select **C** (broadcast channels) or **S** (cable channels) and press the channel number with the **number** (0~9) buttons.

- Press the (**Ⓜ**) button to increase or decrease the channel by one.
- The MANUAL Search function will operate in the button direction you pressed when you press the (**Ⓜ**) button for more than 2 seconds.

Storing Channels In Memory

- 8** If you have picture noise on step 6, Press the () button to select **Fine Tuning** and press the () button to adjust the frequency manually.
- 9** Setting the program name and modification.
Press the () button to select **Name** and then press the () button. On the right side you can then input a program name using up to 5 characters.
(A~Z, a~z, 0~9 , space , ! , x , + , - , /)
Press the () button after you input the program name to store it.

10 Program edit.

- Press the () button to select **Program Edit** and press the **OK** button.
You will see following **MENU**.
Pr, Ch, Freq., Name, Lock, Skip.
- If you want to change the program order, press the () button to move to the channel you want to edit and press the () button. Press the () button for the direction to move.
- If you want to swap channels, press the () button to move to channel you want to edit and press the () button. Then press the () button to move to the other channel position and press the () button again. The channels will be swapped each other.
- You can set the channel lock by pressing the () button to move to the channel position you want to lock and pressing the () button.
- You can set a channel skip by pressing the () button to move to the channel you do not want to watch or do not need and pressing the () button.
- You can delete a channel by pressing the () button to move to the channel you do not want to watch or do not need and pressing the () button.
- Delete () : Delete a program you don't want to watch.
- Move () : Move to the program you want to edit.
- Swap () : Swap programs you select with each other.
- Lock () : Lock the program you select.
- Skip () : Skip a channel you don't want to watch.

Picture
Sound
Clock
Install
Language
Advanced

MENU : Previous ◀▶ : Select
EXIT : Exit OK : Select
▲▼ : Position

Install

Auto Tuning UK
Program 24
Colour Auto
System BG
Manual Tuning S14
Fine Tuning 253.25
Name -----
Program Edit

MENU : Previous ◀▶ : Adjust
EXIT : Exit
▲▼ : Position

Install

Auto Tuning UK
Program 24
Colour Auto
System BG
Manual Tuning S14
Fine Tuning 253.25
Name -----
Program Edit

MENU : Previous ◀▶ : Move
EXIT : Exit
▲▼ : Position OK : Cancel

Install

Auto Tuning UK
Program 24
Colour Auto
System BG
Manual Tuning S14
Fine Tuning 253.25
Name -----
Program Edit

MENU : Previous
EXIT : Exit
▲▼ : Position OK : Access

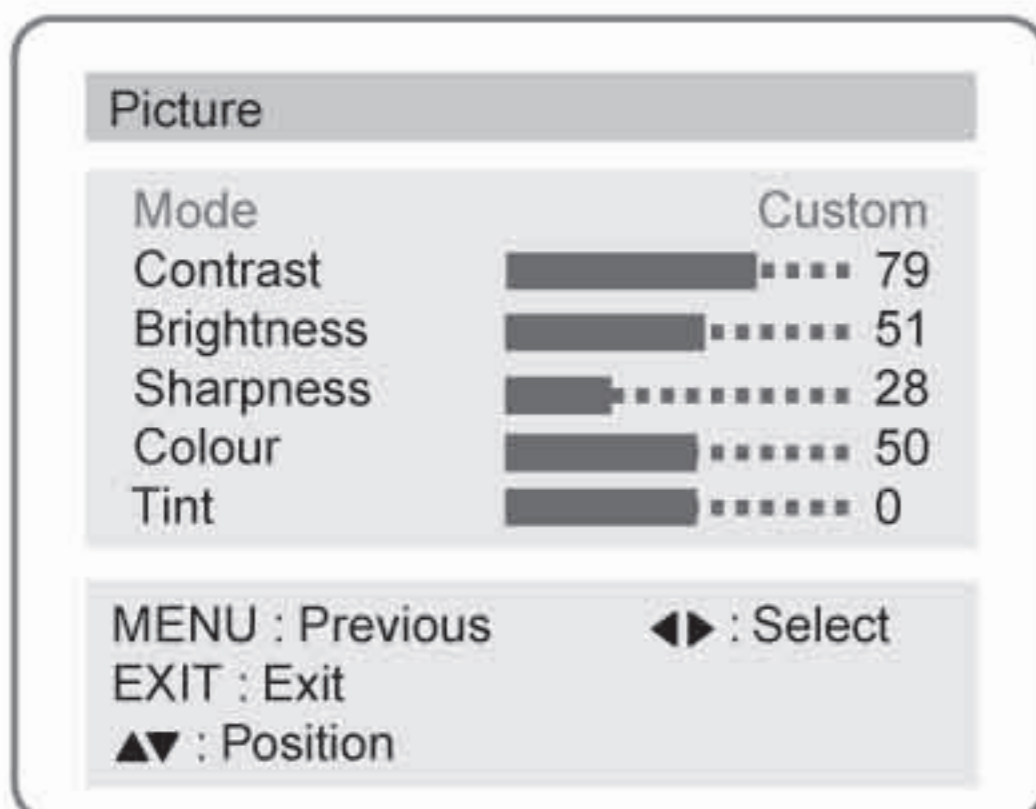
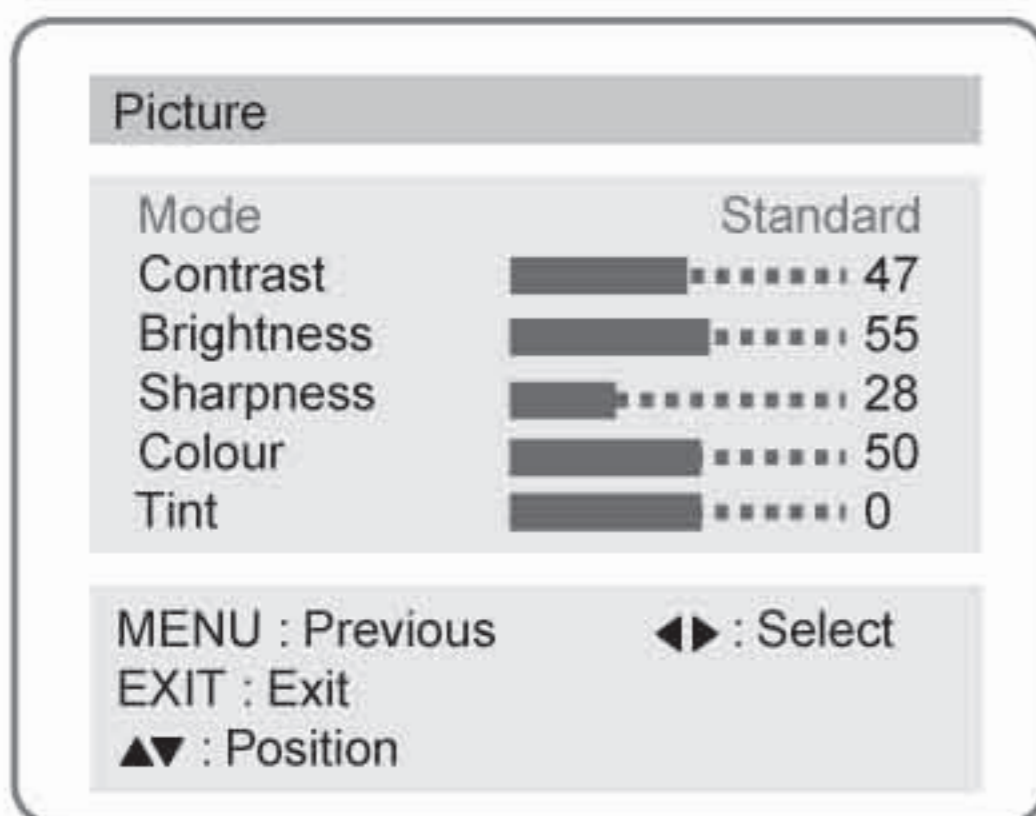
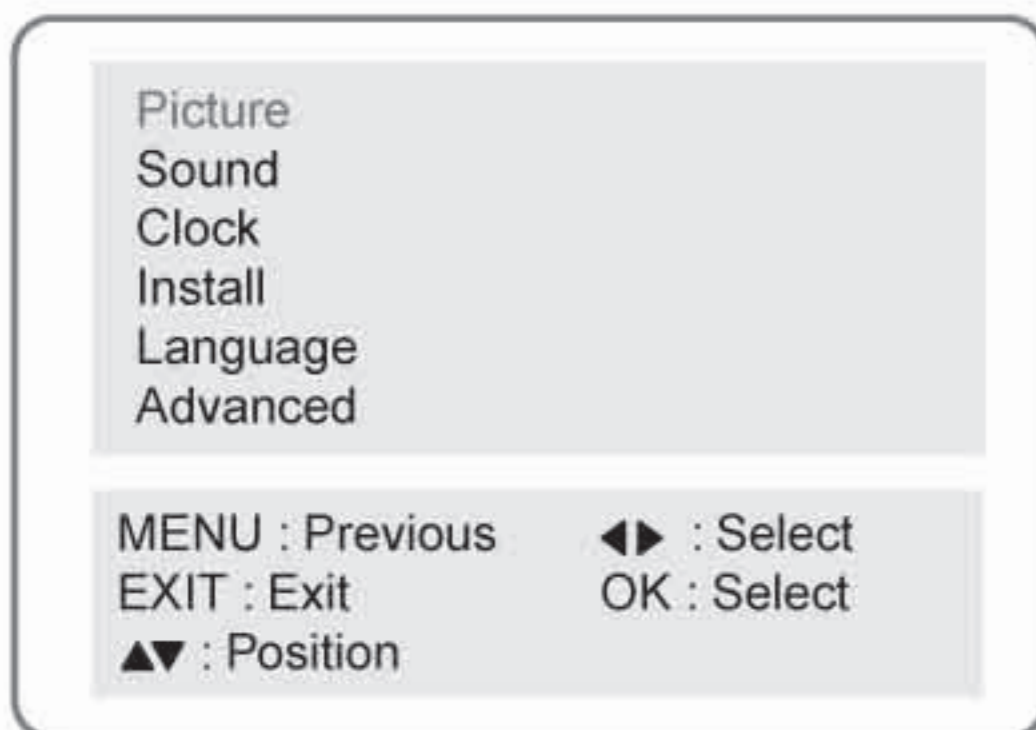
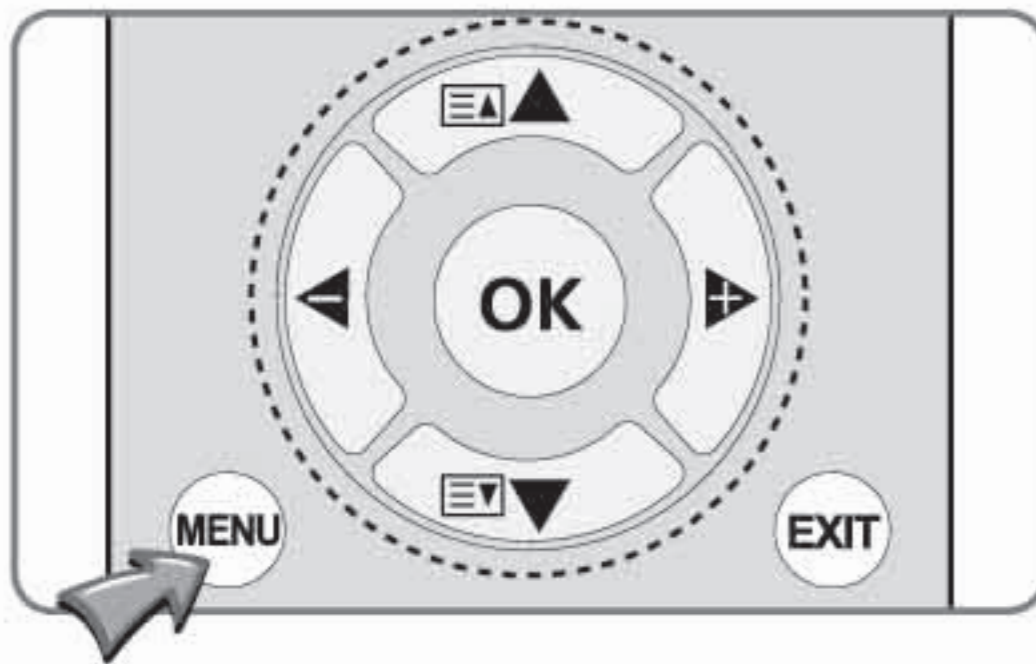
Program Edit

Pr	Ch.	Freq	Name	Lock	Skip
---	---	---	---	<input type="checkbox"/>	<input checked="" type="checkbox"/>
---	---	---	---	<input type="checkbox"/>	<input type="checkbox"/>
---	---	---	---	<input checked="" type="checkbox"/>	<input type="checkbox"/>
---	---	---	---	<input type="checkbox"/>	<input type="checkbox"/>
---	---	---	---	<input type="checkbox"/>	<input type="checkbox"/>

MENU : Previous ■ : Swap
TEXT : Delete ■ : Lock
■ : Move ■ : Skip

Customizing the Picture

You can select an appropriate picture mode by pressing the (□) button in Picture mode.



- 1 Press the **MENU** button.
- 2 Press the (i) button to select the **Picture** group and press the (ⓘ □) or **OK** button.
 - Pre-set mode will be displayed.

- 3 The picture mode will change whenever you press the (ⓘ □) button.
 - Standard** : Select when it is bright around the TV.
 - Sport** : Select when you want to get a clearer picture or watch sports.
 - Natural** : Select when viewing movies or live music.
 - Mild** : Select when it is dark around the TV or at night.
 - Custom** : Select if you want to adjust the settings manually.

Otherwise, if you are viewing contents of the PIP function, whenever you press the (PMODE) button, the picture mode will change as above.

- ☛ You can get the same result by pressing the (PMODE) button on the remote control.

- 4 Press the (i) button to move to the **MENU** that you wish to adjust.

- 5 Press the (ⓘ □) button to adjust.
 - Contrast** : Adjusts the clarity of the whole screen.
 - Brightness** : Adjusts the brightness of the whole screen.
 - Sharpness** : Corrects the contours of the image.
 - Colour** : Adjusts the colour saturation of the image.
 - Tint** : Adjusts the colours of the image. (NTSC only)

- ☛ If you adjust the TV in step 5 while it is in Standard, Sports, Natural or Mild mode, the mode will change to Custom mode.

Customizing the Sound

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Sound** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select **Balance** and press the (**⏏**) button to adjust the sound balance.
- 4 Press the (**i**) button to select **Equalizer** and press the (**⏏**) button.
- 5 Press the (**i**) button to select the sound mode according to the type of image being watched. Sound mode will be change in the following order.
Standard → Music → Film → Speech → Custom

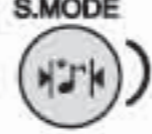
Standard : This is good for any picture.

Music : Select when you listen to music, videos or concerts.

Film : Select when you watch the a movie.

Speech : Select when you listen to speeches or news.

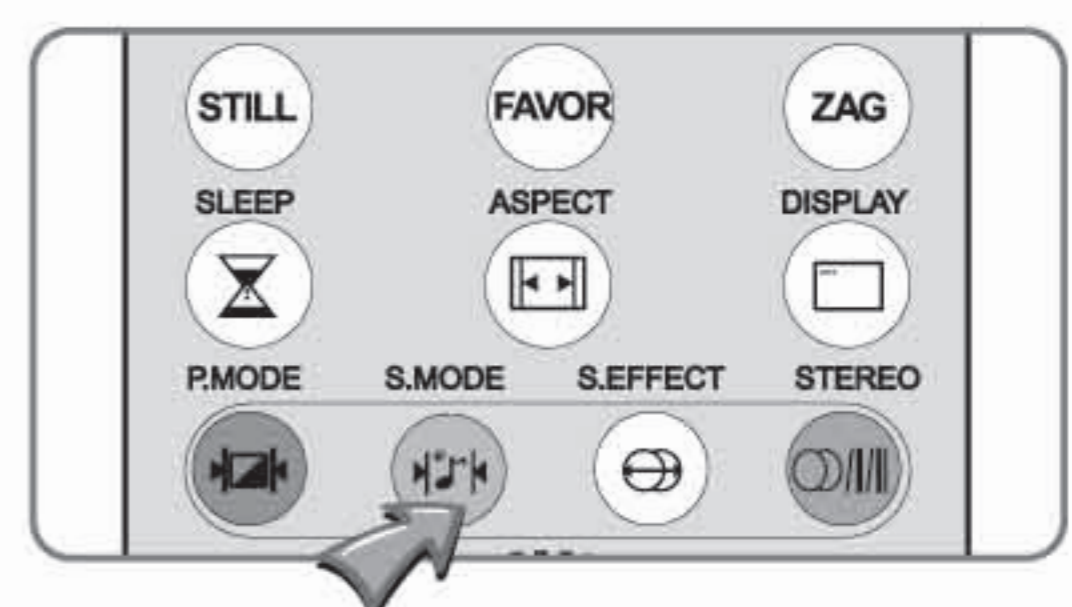
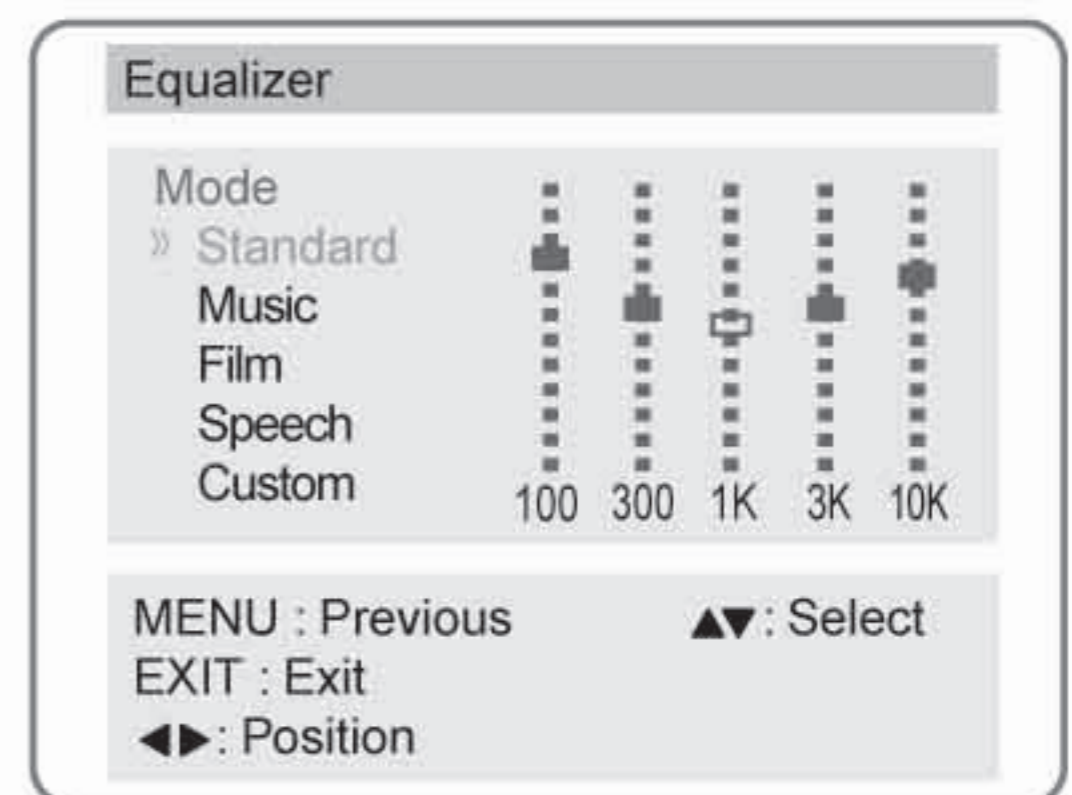
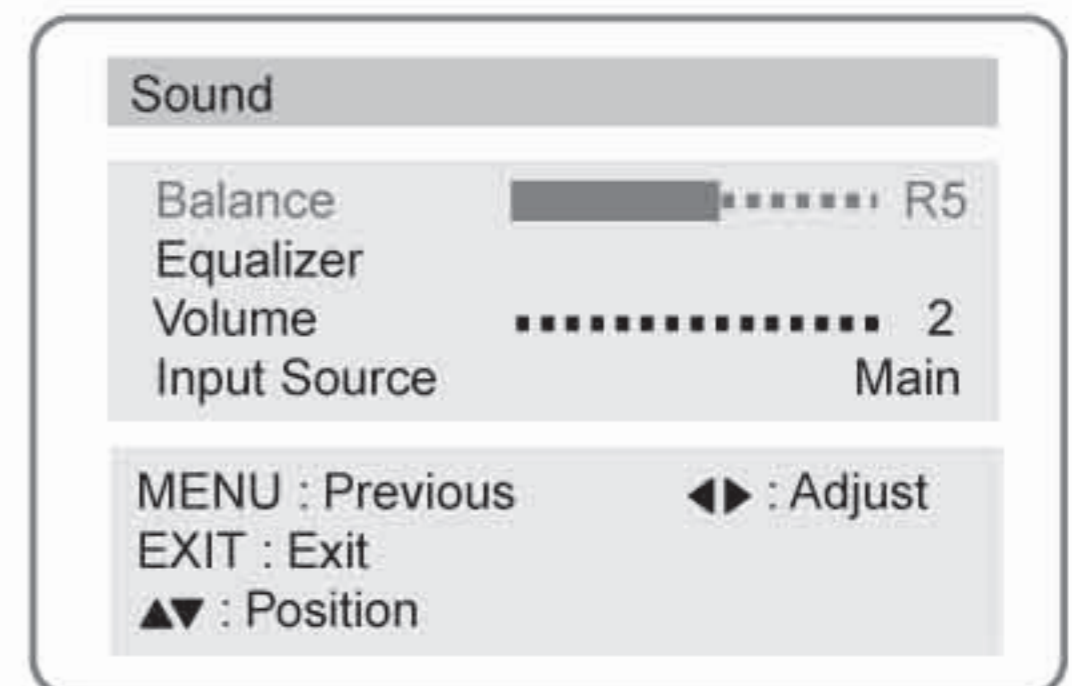
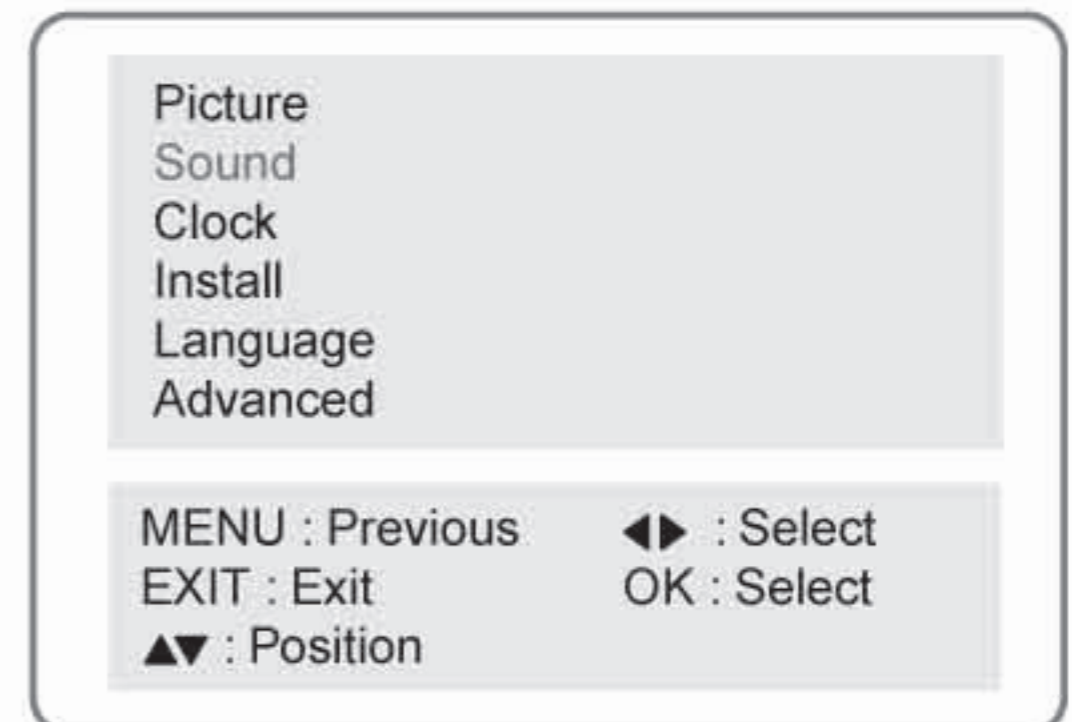
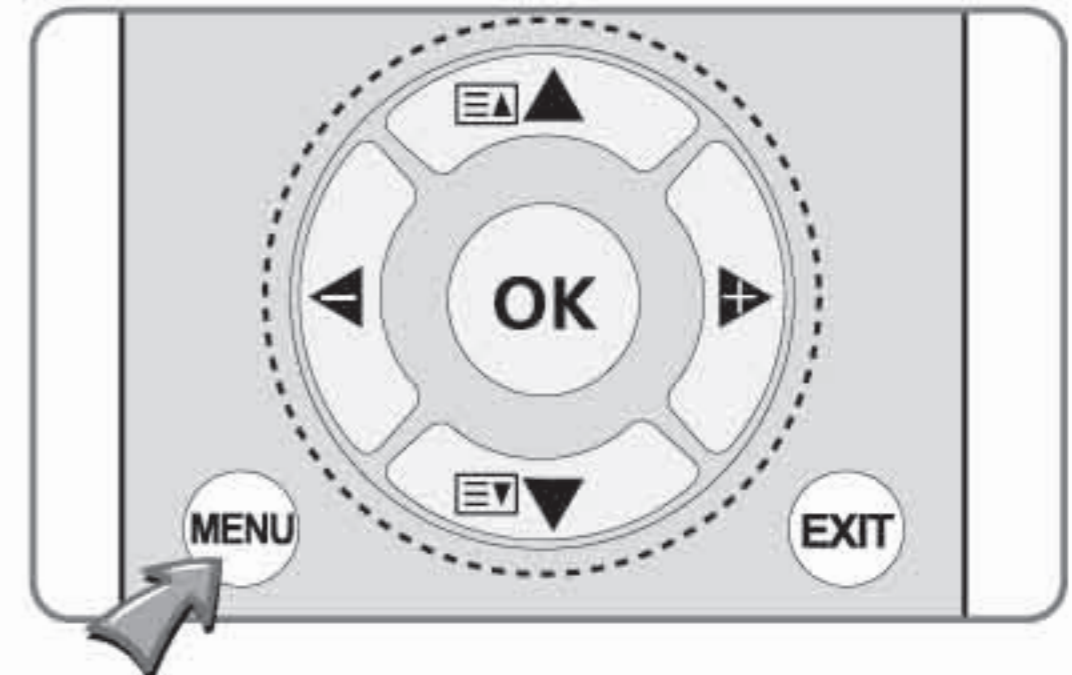
Custom : Select when you want to adjust the setting manually.

☛ You can get the same result by pressing the () button on the remote control.

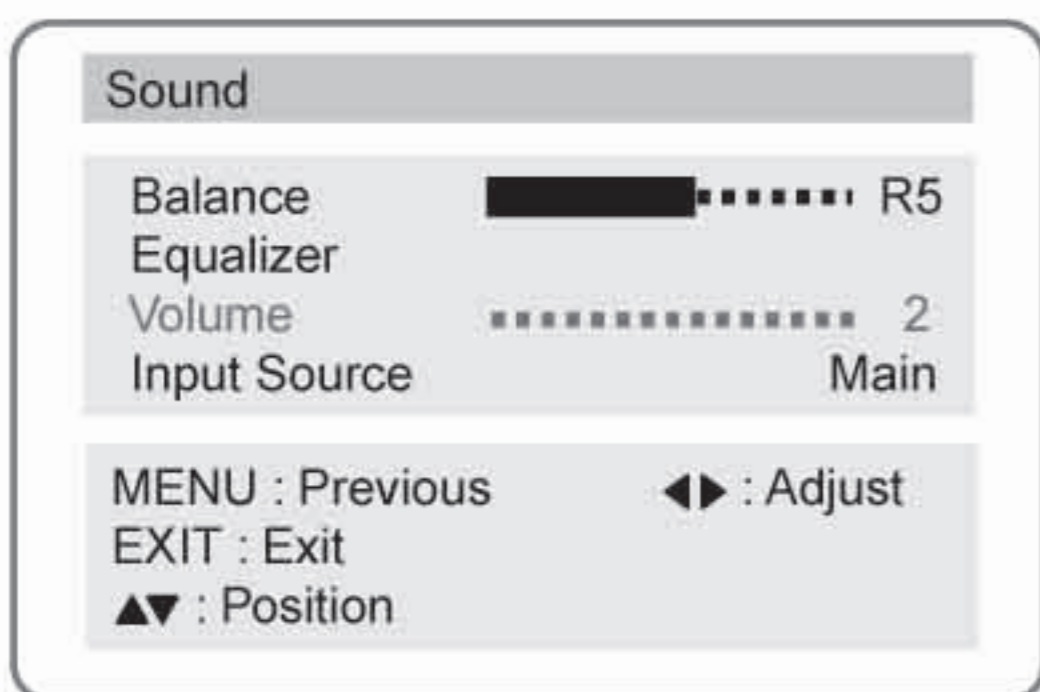
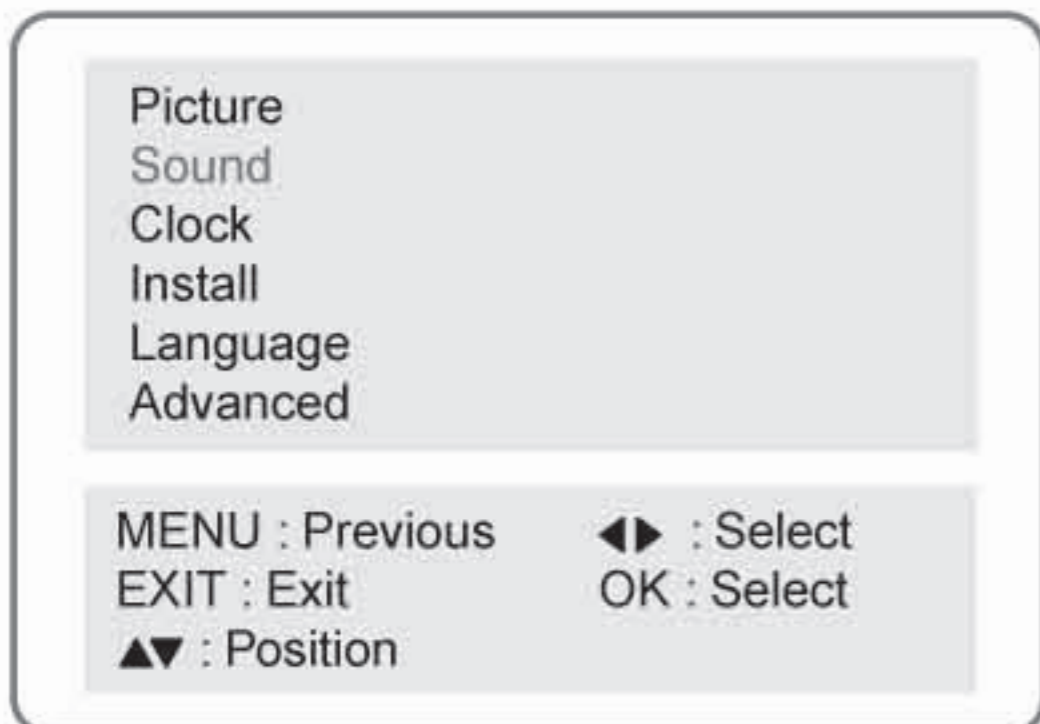
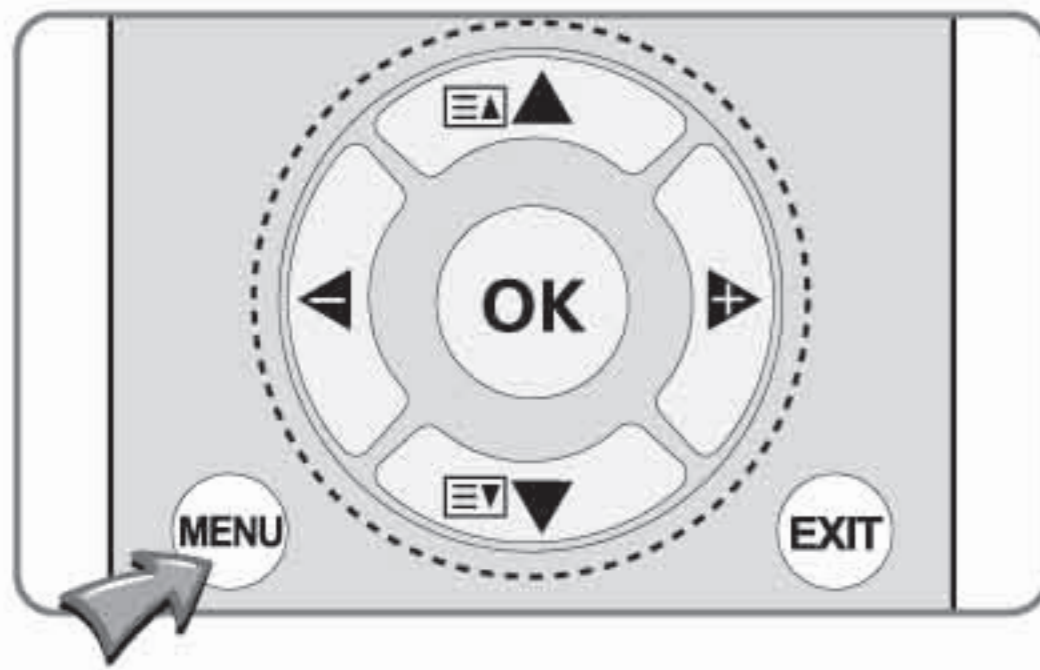
- 6 Press the (**i**) button to select **Custom** and press the (**⏏**) button to select the frequency that you want to adjust. The frequency range will be selected as following order.
100 → 300 → 1K → 3K → 10K

- 7 Press the (**i**) button to adjust.

☛ If you adjust the frequency (100Hz, 300Hz, 1KHz, 3KHz, 10KHz) in Standard, Music, Film, Speech, or Custom mode, the mode will change to Custom mode.



Adjusting the Speaker Volume & Selecting the Speaker Sound Source




- 1** Press the **MENU** button.
- 2** Press the (**i**) button to select **Sound** group and press the (**Ⓜ**) or **OK** button.
- 3** Press the (**i**) button to select **Volume** (speaker).
- 4** Press the (**Ⓜ**) button to adjust the speaker volume.
- 5** Press the (**i**) button to select the **Input Source** of the speaker.
- 6** Press the (**i**) button to select the sound source of the speaker.

Main → PIP → TV → SCART → AV1 → AV2 → DTV

- ☛ - You will have sound only through the headphones, not the speakers, if you connect headphones. You can adjust the headphones' volume by pressing the (**Ⓜ**) button.
- You can listen to the main picture's sound when the PIP is off even if you select PIP mode sound.
- ☛ When you would like to have sound through the headphones, if you connect a set of headphones to your TV, the volume level will be decreased automatically without concerning the previous volume setting.


Listening to Stereo Sound / Dual Sound

Listening to stereo sound

- 1 Press the () button on the remote control to select **Mono** or **Stereo**.
 - Mono or Stereo be will selected in turn whenever you press the button.
 - ☛ Select Mono sound when you have difficulty with stereo sound.




Listening to the Dual sound

- 1 Press the () button on the remote control to select Dual sound.
Dual 1: Your national language or Dual 2: Foreign language will be selected by turn whenever you press the button.



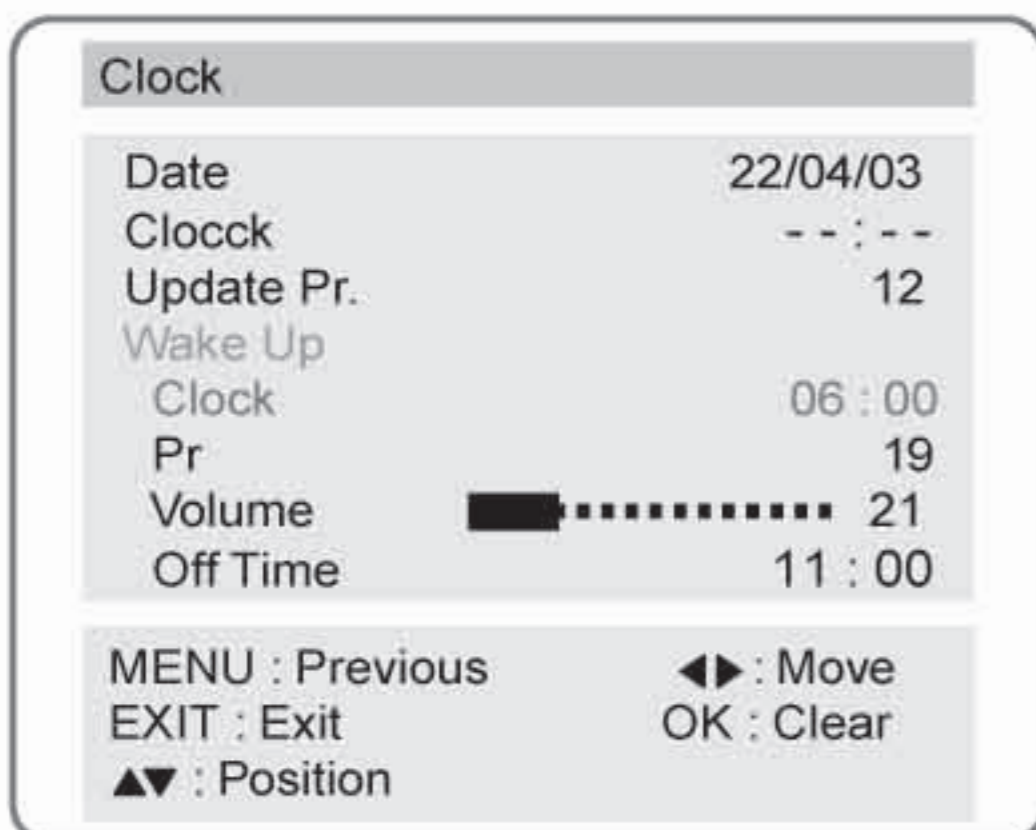
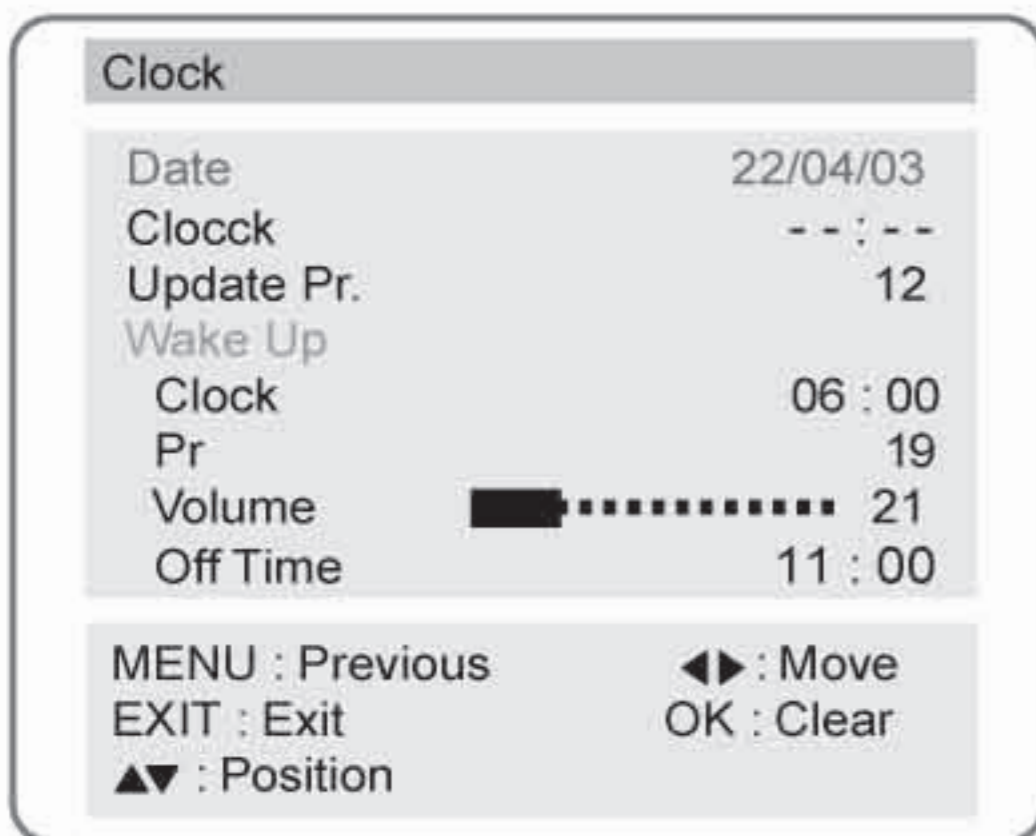
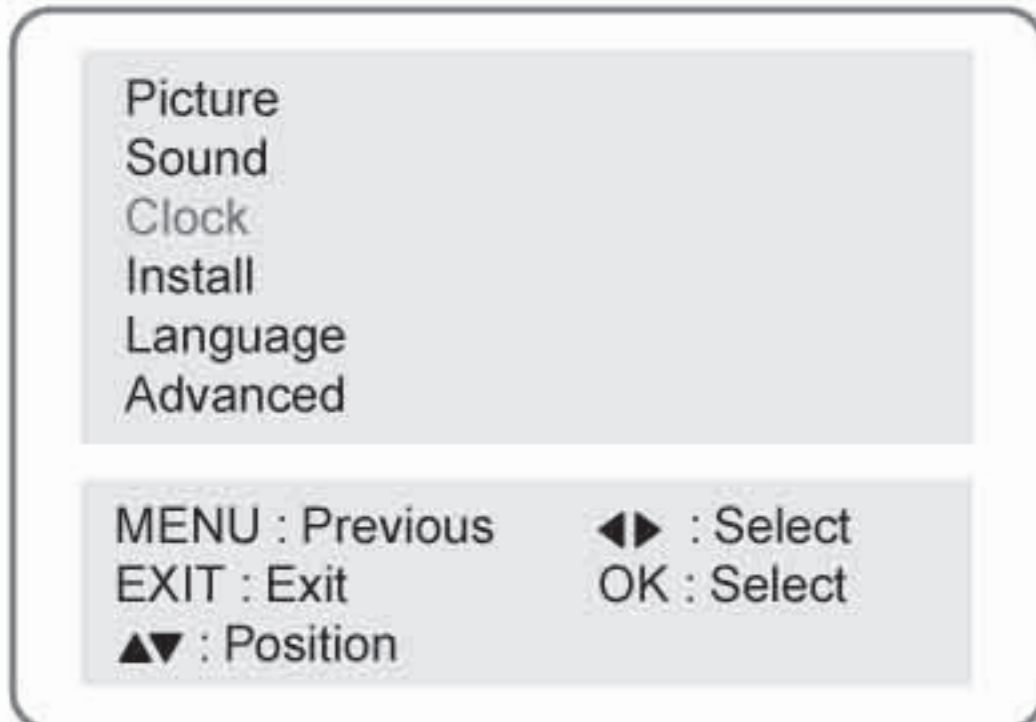
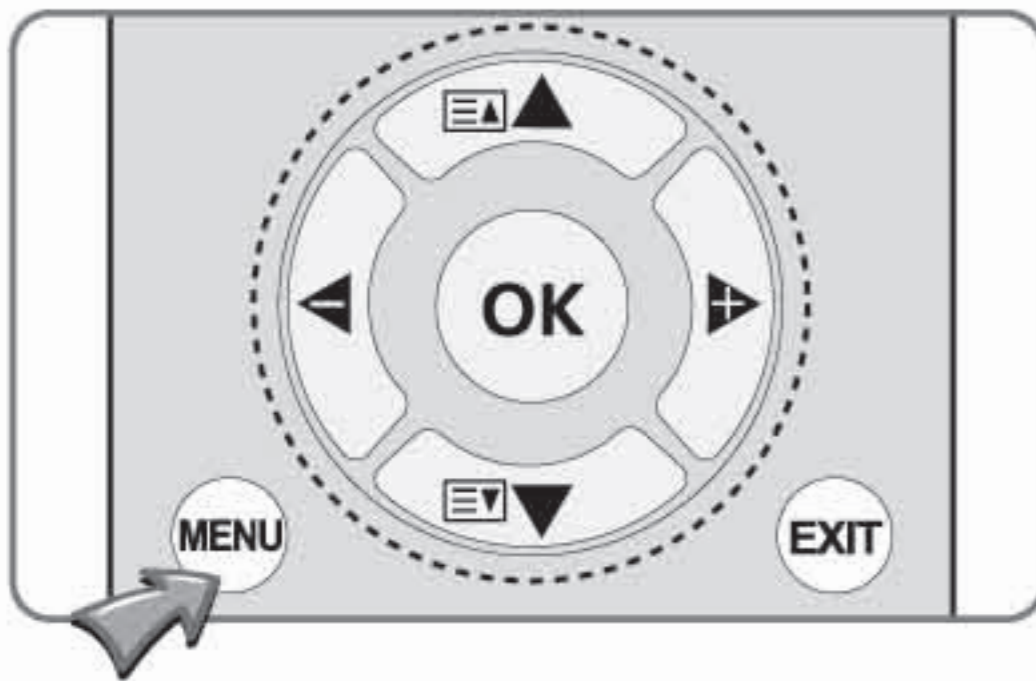
Setting the Sound Effect

You can adjust this only with the remote control.

- 1 Press the () button on the remote control to select **Off** or **Pseudo**.
 - **Off** or **Pseudo** will be selected in turn whenever you press this button.
 - Off** : Turn off the sound effect.
 - Pseudo** : You can listen to Pseudo stereo sound, which is created from Mono sound.
 - Surround** : This features allows the TV's L/R Speakers to provide a Home Theater-like surround effect. The center and surround sounds are mixed into the L/R speakers.



Setting the Date & Time



- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Clock** and press the (**Ⓜ**) or **OK** button.
- 3 Press the (**Ⓜ**) button to move between Date → Month → Year.
- 4 Press the (**i**) or **number** (0~9) buttons to adjust the Date and repeat the above steps 3-4 to adjust the Month and Year in the same way.
 - You can erase and reset the Date by pressing the **OK** button.
- 5 Press the (**i**) button to select **Clock** and press the **OK** or (**Ⓜ**) button to move to time adjust.
- 6 Press the (**i**) or **number** (0~9) buttons to adjust the Hour and Minute.
 - Adjust the Hour using the 24-hour system :
Example : 6 P.M. Press 1 and 8
 - You can erase and reset the and hour and minute by pressing the **OK** button.

Update Pr

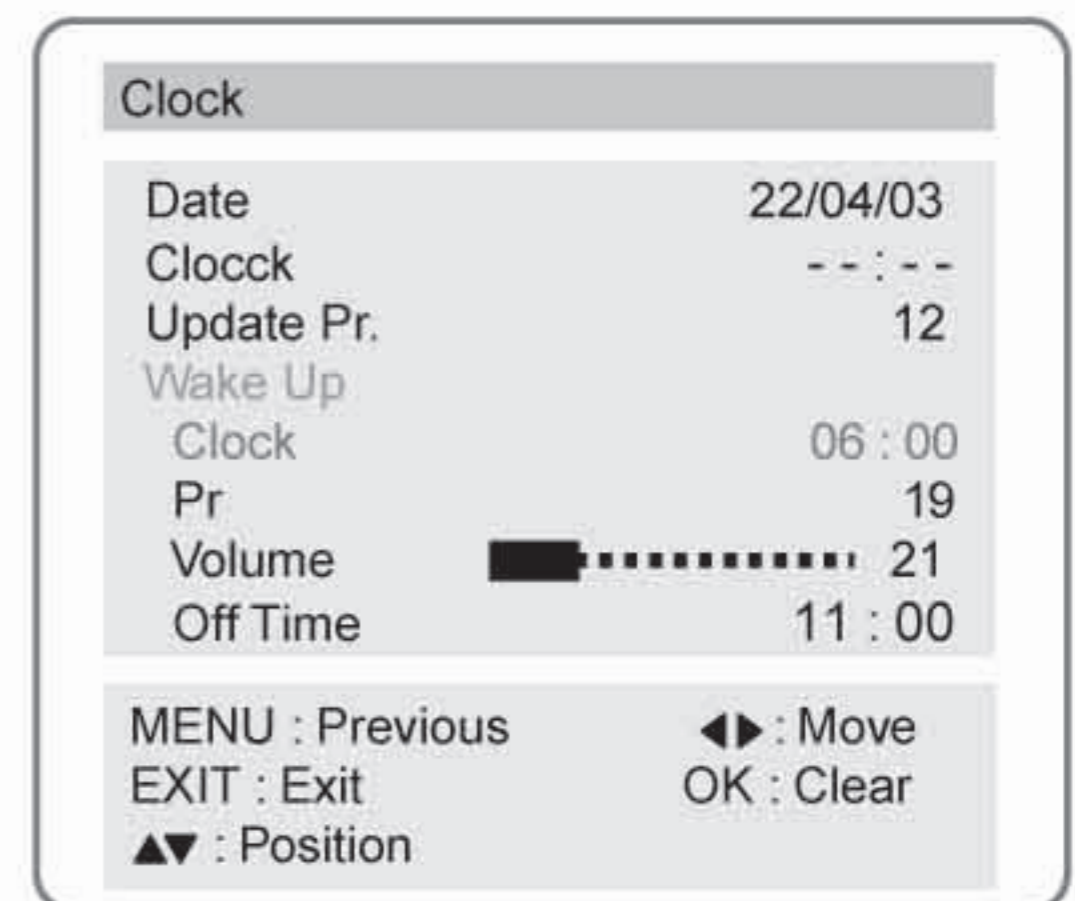
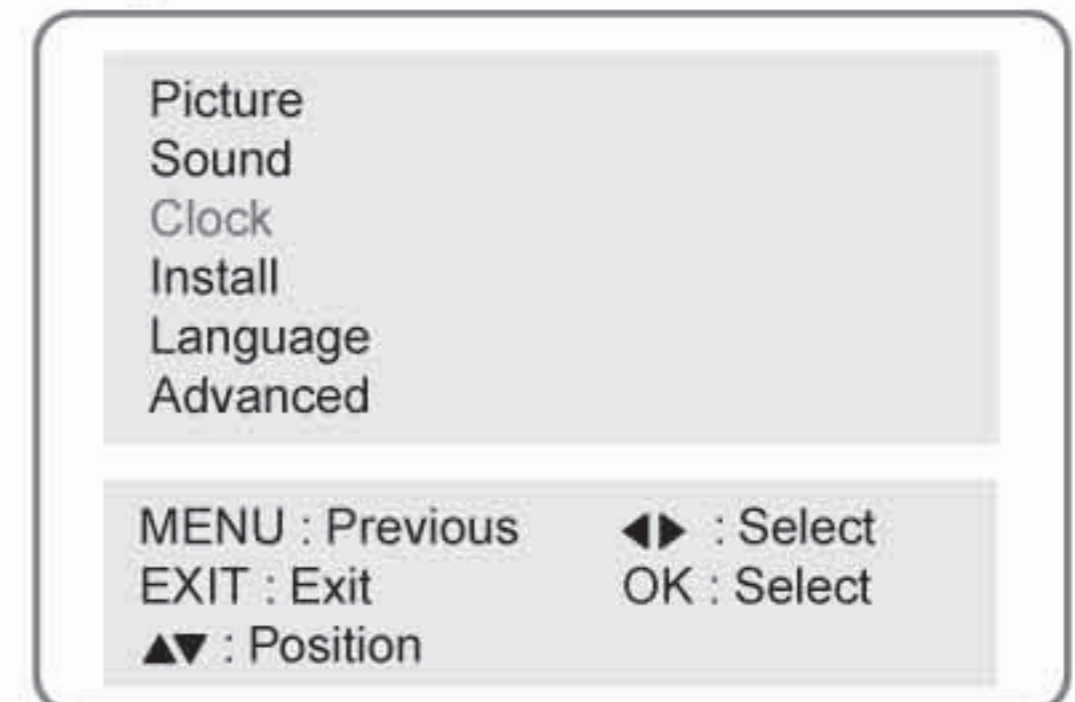
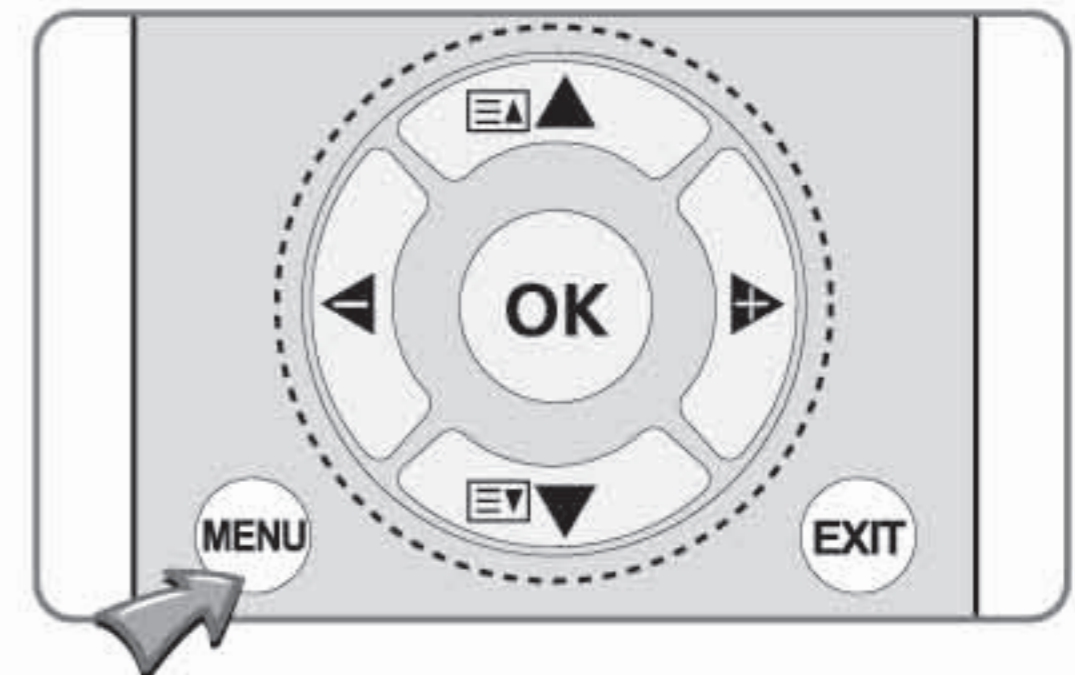
- Set the Pr. number if you want to update the time and date with the information carried by the broadcast signal.
- If you clear the Pr. number, the auto update function does not work.

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Update Pr.** and press the (**Ⓜ**) button to move to the program number at the right side.
- 3 Press the (**i**) button to select the program number or input the program number by pressing the number button directly.
- 4 Press the (**Ⓜ**) button to select Program number or press the program number button directly.
 - You can erase and reset the program number by pressing the **OK** button.
 - If you select Pr00, it applies to all programs.

Setting the Preset Time (On/Off)

This function is available after you set the clock first.

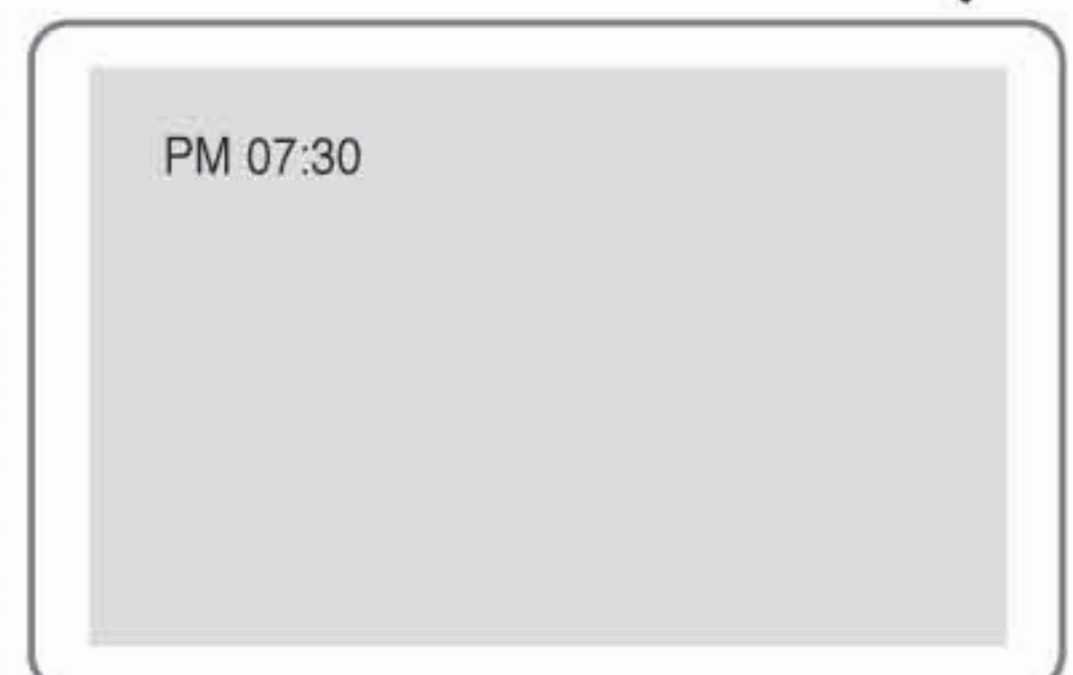
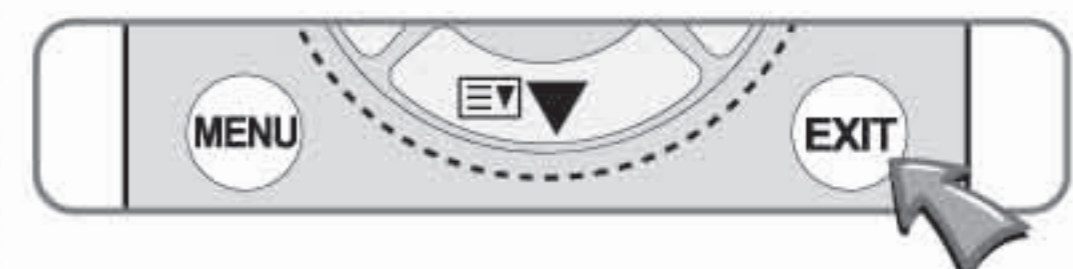
- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Clock** and press the (**⏸**) or **OK** button.
- 3 Press the (**⏸**) button to select the Hour or Minute.
- 4 Press the (**i**) or **Number** (0~9) buttons to adjust the Hour and Minute.
 - You can erase and reset the Hour and Minute by pressing the **OK** button.
- 5 Press the (**i**) button to move to **Pr.** and press the (**⏸**) button.
- 6 Press the (**i**) or **Number** (0~9) button to select the channel.
 - You can erase and reset the channel by pressing the **OK** button.
- 7 Press the (**i**) button to select **Volume** and press the (**⏸**) button to adjust the volume.
- 8 Press the (**i**) button to select **Off time**.
- 9 Press the (**⏸**) button to move to the Hour or Minute. Press the (**i**) or **Number** (0~9) button to adjust the Hour or Minute and then press the (**⏸**) button.
 - You can erase and reset the Hour and Minute by pressing the **OK** button.



Displaying the Current Time

This function is available after you set the clock first.

- 1 Press the (**EXIT**) button on the remote control to display the current time.



Setting Restrictions On Button Input

Picture
Sound
Clock
Install
Language
Advanced

MENU : Previous ◀▶ : Select
EXIT : Exit OK : Select
▲▼ : Position

Advanced

Local Lock Off
Osd Timeout 60
No Operation Timeout 180
No Signal Timeout 20
Favorite Channel
NR On
Factory Preset

MENU : Previous ◀▶ : Select
EXIT : Exit
▲▼ : Position

- 1 Press the **MENU** button.
 - 2 Press the (**i**) button to select the **Advanced** group and press the (**Ⓢ**) or **OK** button.
 - 3 Press the (**i**) button to select **Local lock**.
 - 4 Press the (**Ⓢ**) button to select **Off, Once** or **Always** and press the **MENU** button.
 - **Off** : With the lock function off, you can control the TV with both the remote control and the buttons on the TV.
 - **Once** : The lock function will turn off automatically after you turn the TV on/off once with the remote control.
 - **Always** : With the lock function always on, you can control the TV only with the remote control, not with the buttons on the TV.
- ☛ This function prevents children from controlling the TV when parents are not home. It is available after setting this function with the remote control.

Reducing Picture Noise

Use this function when you have a bad image with the picture noise.

Advanced

Local Lock Off
Osd Timeout 60
No Operation Timeout 180
No Signal Timeout 20
Favorite Channel
NR On
Factory Preset

MENU : Previous ◀▶ : Select
EXIT : Exit
▲▼ : Position

- 1 Press the **MENU** button. The Main menu screen will display.
- 2 Press the (**i**) button to select the **Advanced** group and press the (**Ⓢ**) or **OK** button. You will see the **Advanced** group screen.
- 3 Press the (**i**) button to select **NR**.
 - Press the (**Ⓢ**) button to select **On**.
 - Whenever you press the (**Ⓢ**) button, the selection will switch between **On** or **Off**.

Factory Preset

Advanced

Local Lock Off
Osd Timeout 60
No Operation Timeout 180
No Signal Timeout 20
Favorite Channel
NR On
Factory Preset

MENU : Previous OK : Access
EXIT : Exit
▲▼ : Position

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Advanced** group and press the (**Ⓢ**) or **OK** button.
- 3 Press the (**i**) button to select **Factory Preset**. Press the **OK** button.

The Audio and Video setting will be reset to the factory default settings.

Setting the OSD Display Time

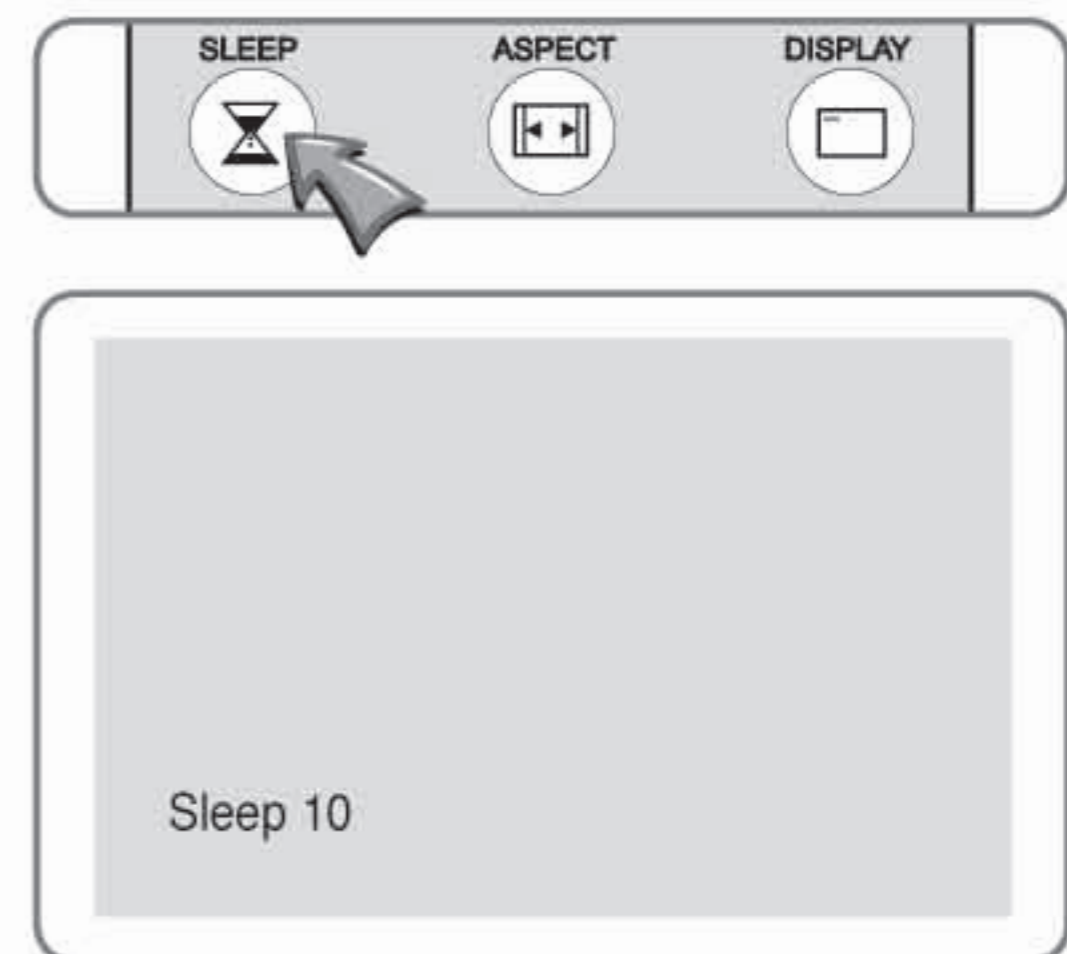
- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Advanced** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select **Osd Timeout**.
- 4 Press the (**⏏**) button to adjust the display time.
 - Whenever you press this button, you can adjust it in 5 second increments from 0 to 60 seconds.
- 5 If you finish setting the time, press the **MENU** button.
 - ☛ - If you do not press the MENU button after adjusting the OSD timeout, the menu screen will disappear automatically after the set time.
 - If you set 0, menu screen will not disappear automatically.

Advanced	
Local Lock	Off
Osd Timeout	60
No Operation Timeout	180
No Signal Timeout	20
Favorite Channel	
NR	On
Factory Preset	
MENU : Previous	◀▶ : Adjust
EXIT : Exit	
▲▼ : Position	

Setting the Sleep Timer

This function is available only with the remote control.

- 1 Press the (**SLEEP**) button.
Whenever you press this button the sleep timer will select times in the following order.
Sleep off → Sleep5 → Sleep10 → Sleep20 → Sleep30 → Sleep60 → Sleep90 → Sleep120 → Sleep180.



No Key Operation Auto Power Off

Automatically turns the power off if there is no button pressed for a period of time after AUTO Wake-Up turns the power on.

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select **Advanced** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select **No Operation Timeout**.
- 4 Press the (**⏏**) button to adjust the auto power off time.
 - You can adjust it in 30-minute increments from 0 to 180 minutes.
(**0 → 30 → 60 → 90 → 120 → 150 → 180**)
 - If you set the time to 0, the TV will not use the auto power off function.

Advanced	
Local Lock	Off
Osd Timeout	60
No Operation Timeout	180
No Signal Timeout	20
Favorite Channel	
NR	On
Factory Preset	
MENU : Previous	◀▶ : Adjust
EXIT : Exit	
▲▼ : Position	

No Signal Auto Power Off

Automatically turns the power off if there is no broadcast signal or button pressed for some time.

Advanced	
Local Lock	Off
Osd Timeout	60
No Operation Timeout	180
No Signal Timeout	20
Favorite Channel	
NR	On
Factory Preset	
MENU : Previous ◀▶ : Adjust	
EXIT : Exit	
▲▼ : Position	

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Advanced** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select **No Signal Timeout**.
- 4 Press the (**⏏**) button to adjust the auto power off time.
 - You can adjust it in 1-minute increments from 0 to 20 minutes.
(0 → 1 → 2 → ... → 18 → 19 → 20)
 - If you set the time to 0, the TV will not use the auto power off function.

Watching your Favorite Channels

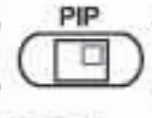


Advanced	
Local Lock	Off
Osd Timeout	60
No Operation Timeout	180
No Signal Timeout	20
Favorite Channel	
NR	On
Factory Preset	
MENU : Previous ◀▶ : Select	
EXIT : Exit	
▲▼ : Position	

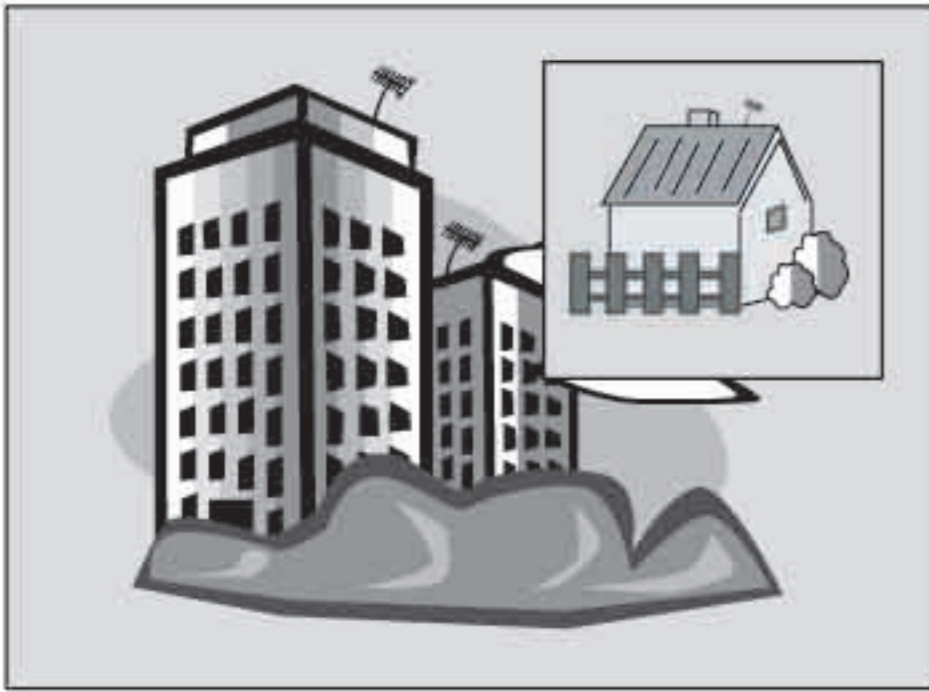


- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Advanced** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select a **Favorite channel**.
- 4 Press the (**i**) button to move the position and press the (**⏏**) button to select Program No, AV, etc.
 - You can select up to 5 Program No, AV, etc.
You can direct select input sources by pressing the PC, DTV and Video button or select them by pressing the **⏏** or **⏏** button.
The input sources are changed in following order.
Pr00 ↔ Pr99 ↔ SCART ↔ AV1 VIDEO ↔ AV1 S-VHS ↔ AV2 VIDEO ↔ AV2 S-VHS ↔ DTV ↔ PC
also, you can direct input program No. by press numeric button (0~9).
 - You can delete the selection by pressing the **OK** button and pressing the **Number** or (**TV/AV**) buttons to select the channel.
 - The selection will switch whenever you press the **Favorite** (**FAVOR**) button on the remote control.

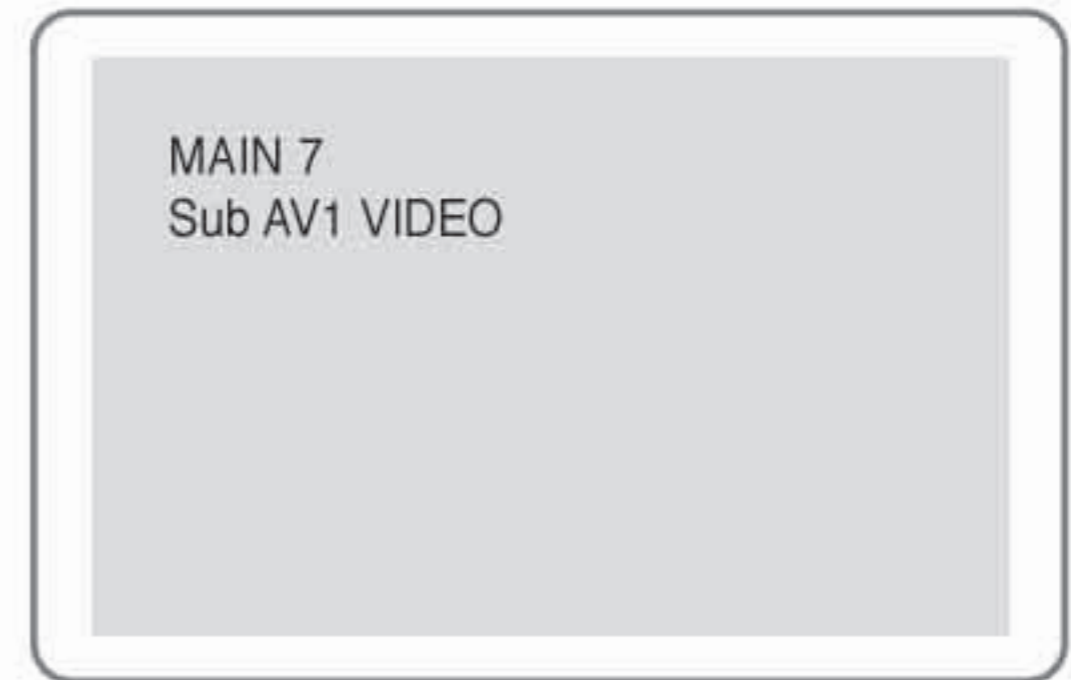
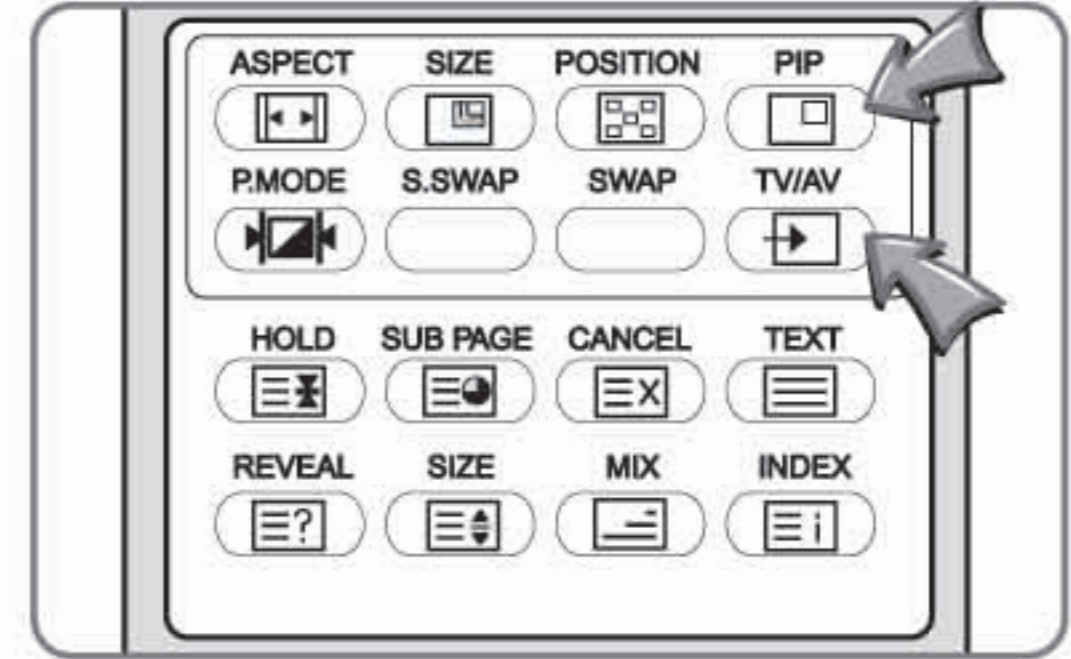
Display the Picture in Picture (PIP)

- This function is available only with the remote control.
- You can watch another device's image in the PIP while watching the TV, PC or in VIDEO the main image.

- 1 Press the **PIP** () button. You will see the PIP in the at upper right corner.
- 2 Press the () button to select the external signal source for the PIP.
 - The external signal source will display whenever you press the () button.
(TV → SCART → AV1 VIDEO → AV1 S-VHS → AV2 VIDEO → AV2 S-VHS → DTV → PC)




- ☛ You can change the main picture channel by pressing the () button.

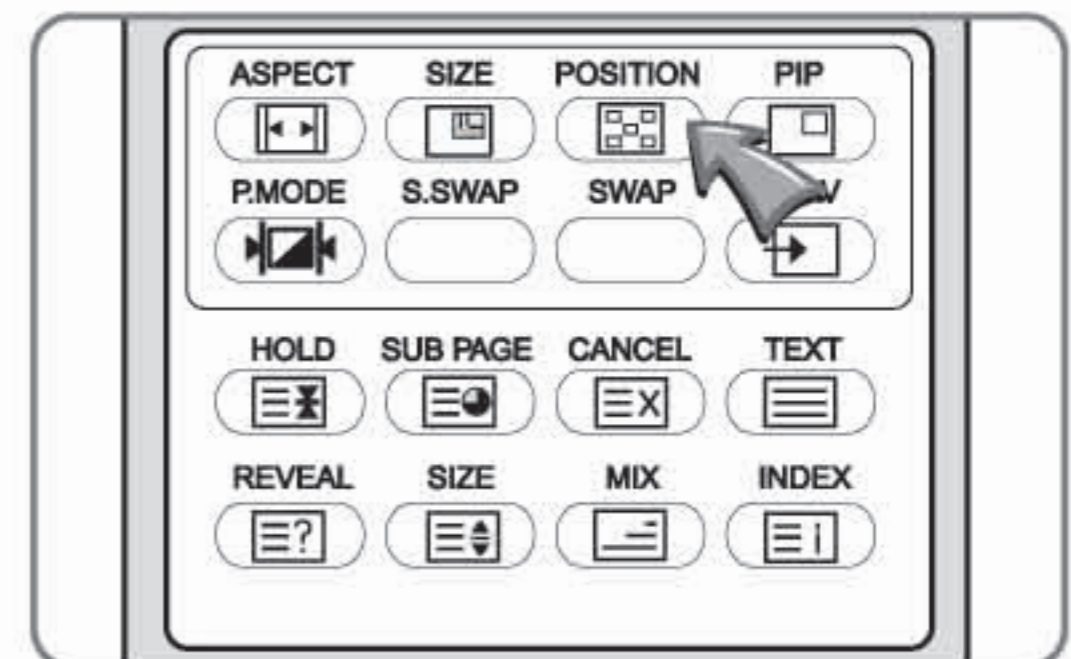
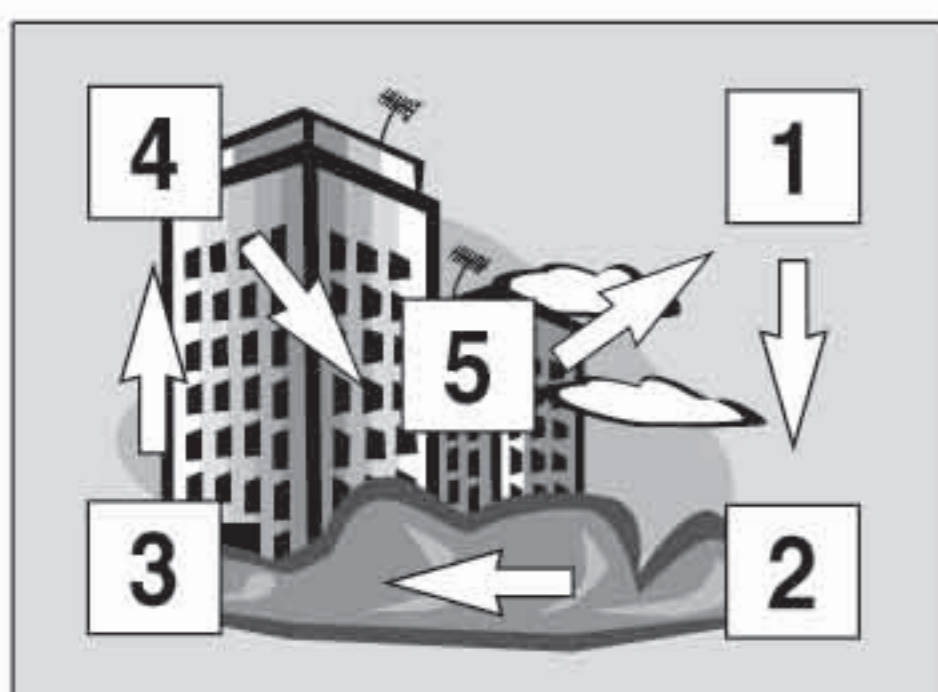


PIP

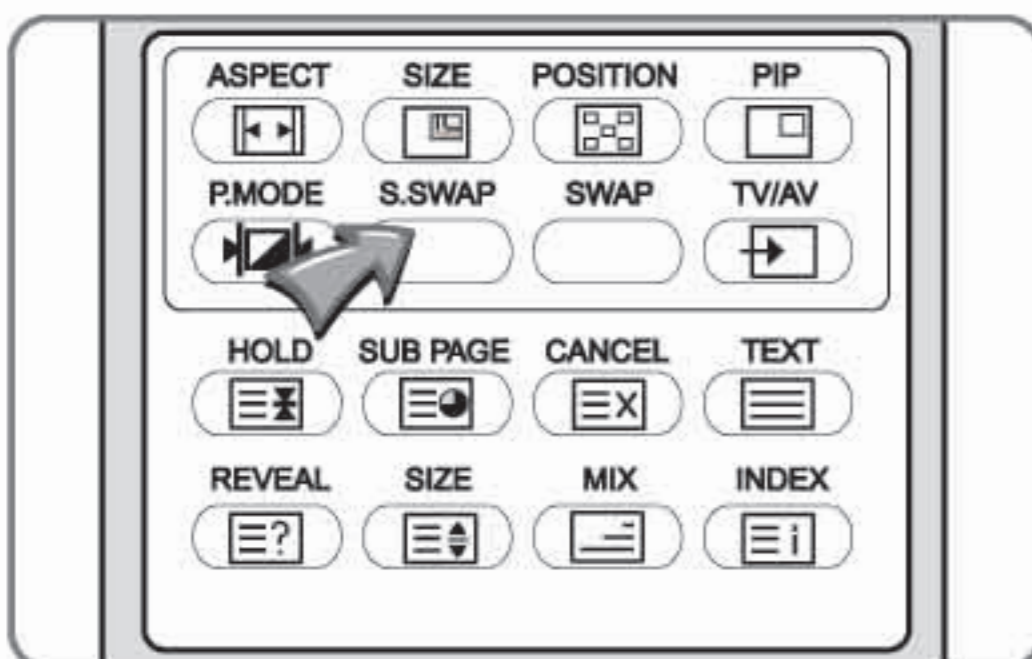
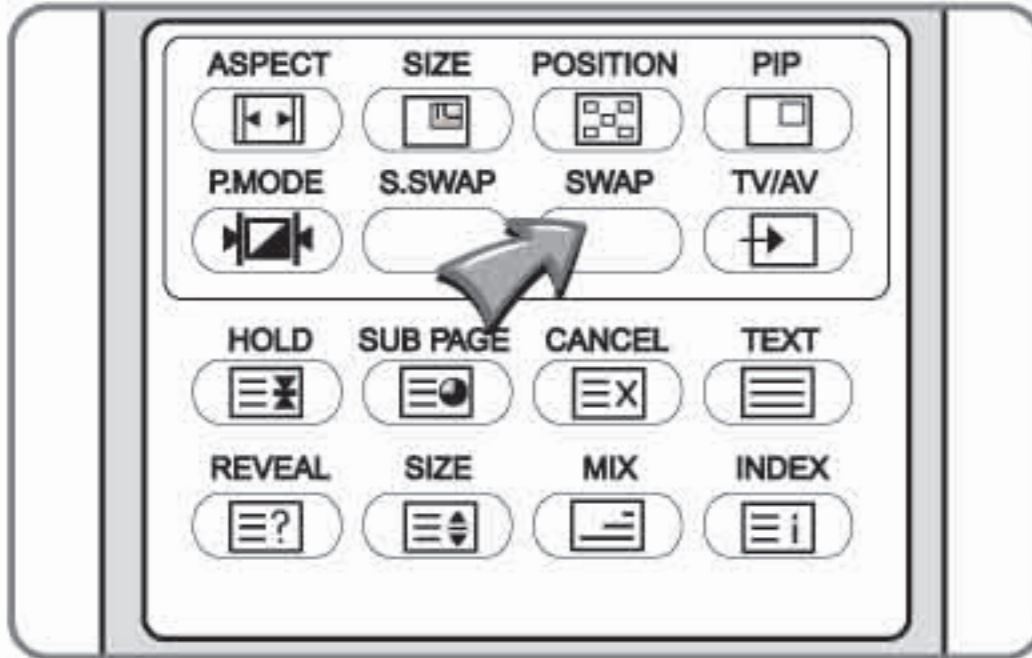
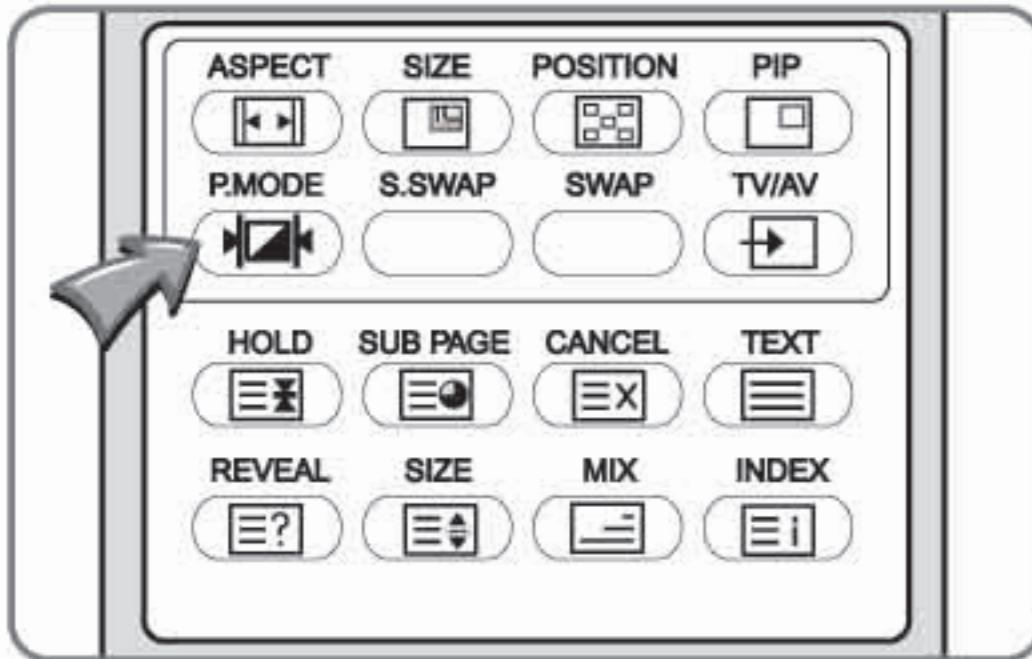
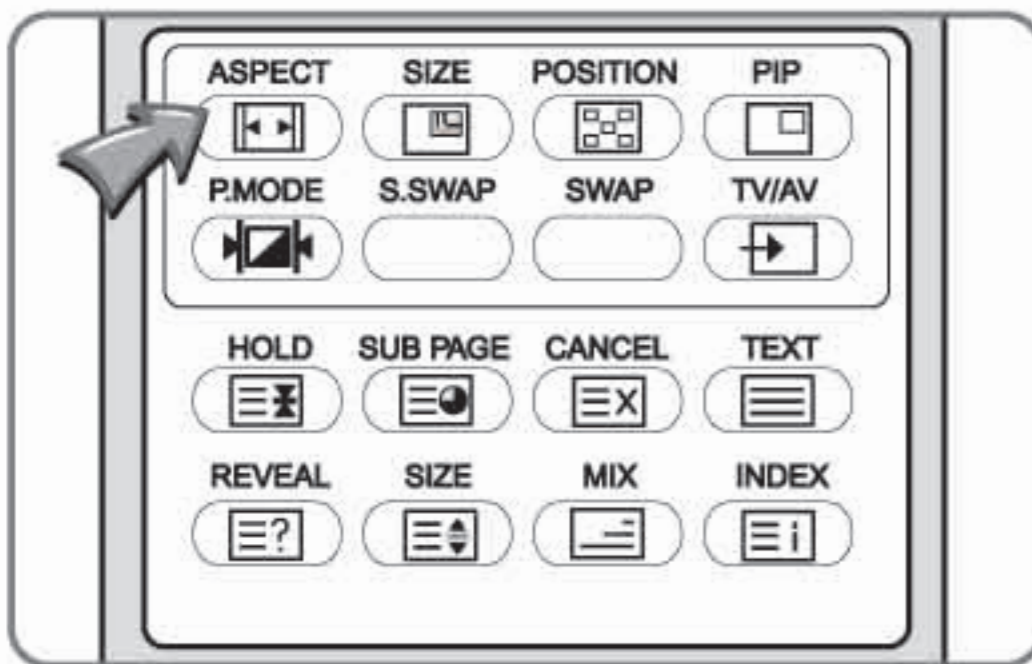
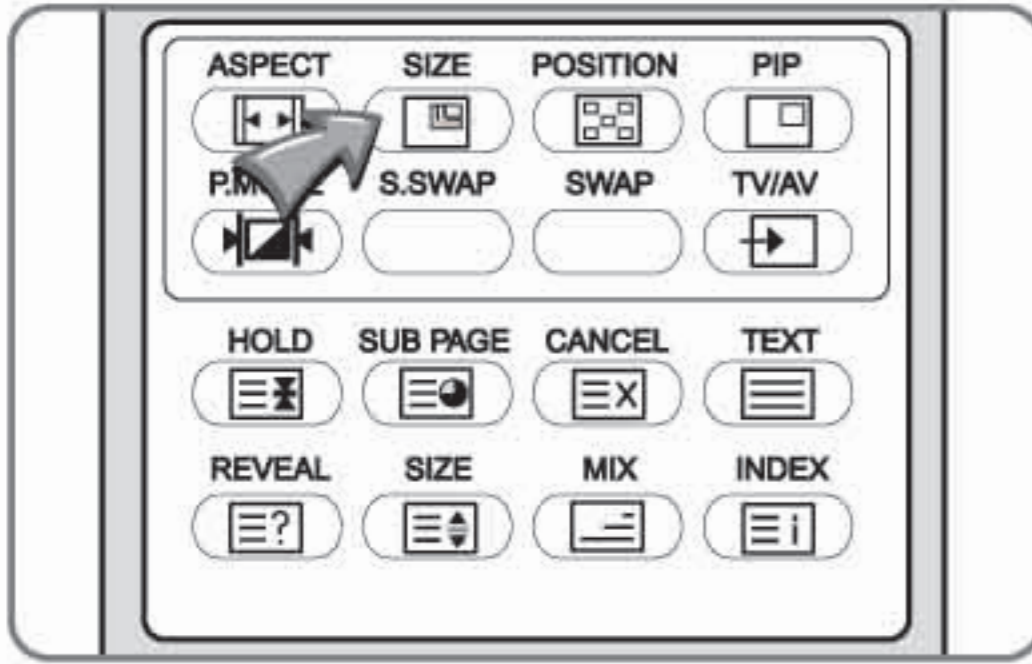
Main \ Pip	TV	SCART	VIDEO	S-Video	DTV	PC
TV	X	0	0	0	0	0
SCART	0	X	0	0	0	0
VIDEO	0	0	∅	0	0	0
S-Video	0	0	0	∅	0	0
DTV	0	0	0	0	X	X
PC	0	0	0	0	X	X

Changing the PIP Position


- 1 Press the () button on the remote control.
 - The PIP position will change among 5-positions whenever you press this button.



Display the Picture in Picture (PIP)




Changing the PIP Size


- 1 Press the () button on the remote control.
 - The PIP will change among 6 different sizes whenever you press this button.




Selecting the image size In the PIP

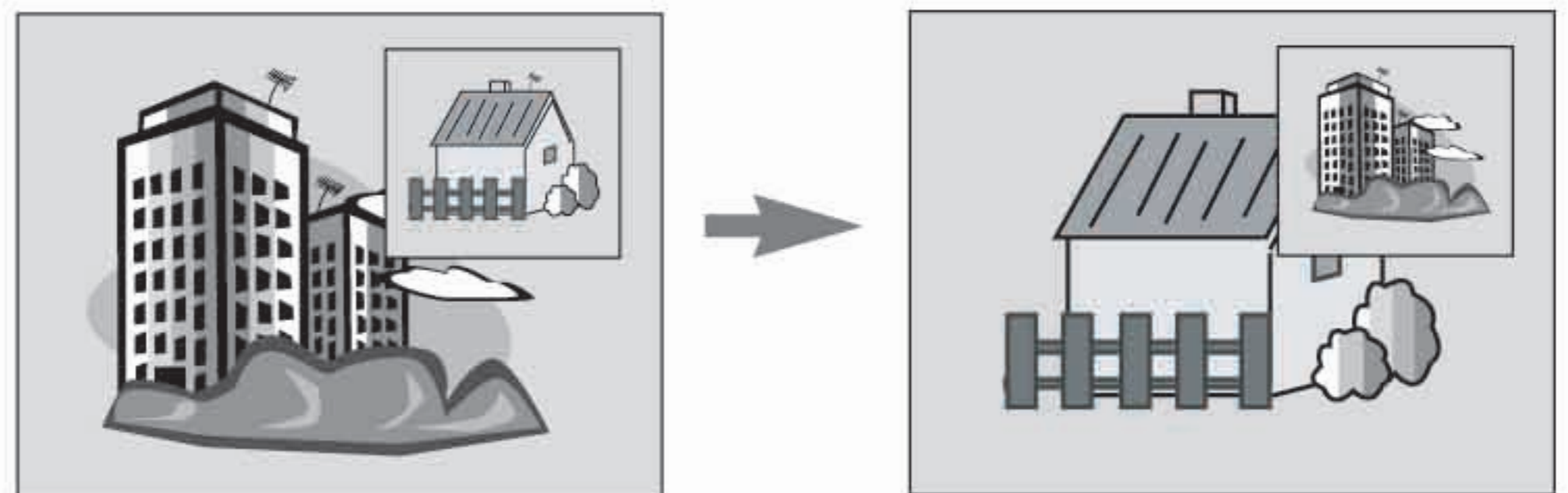
- 1 Press the () button on the remote control.
 - When you are viewing the Sub-picture :
The sub picture size will be changed in the following order whenever you press this button.
4:3 ↔ 16:9

Changing the PIP Mode

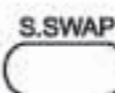
- 1 Press the () button on the remote control.
 - The PIP mode will change whenever you press this button.
Standard → Sport → Natural → Mild → Custom

Swapping the Main & Sub-Picture


- 1 Press the () button on the remote control.
 - The Main image and PIP image will switch with each other whenever you press this button.

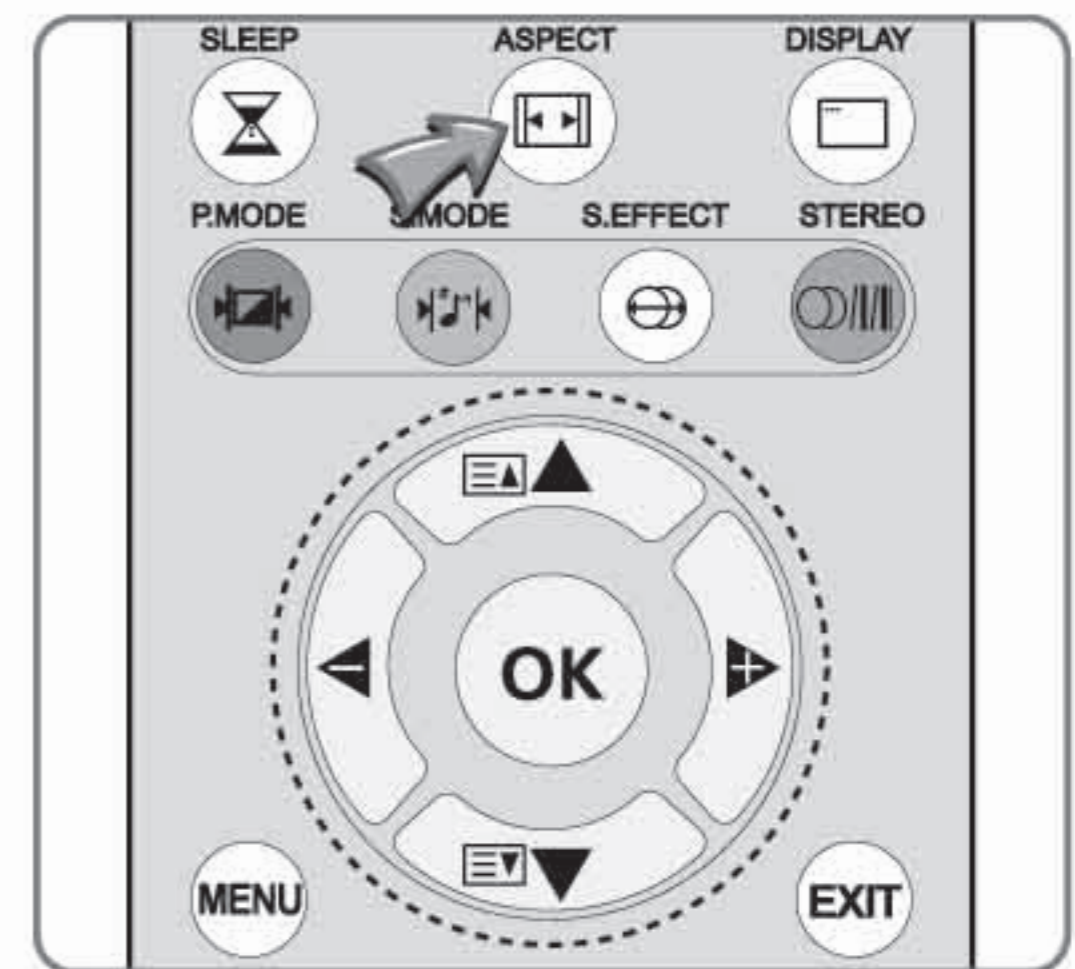
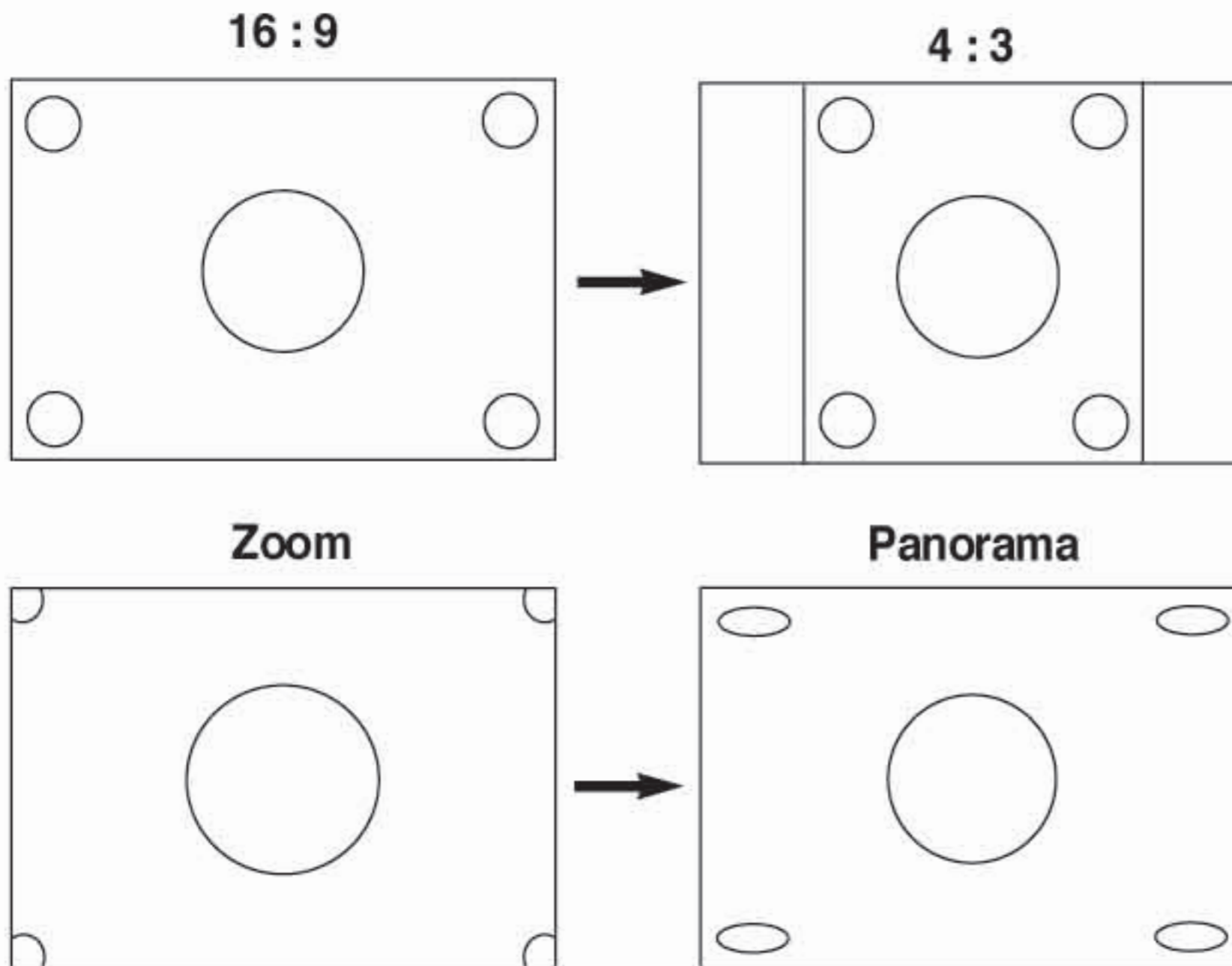


Swapping the Main & Sub-Sound


- 1 Press the () button on the remote control.
 - The Main sound and PIP sound will switch with each other Whenever you press this button.

Changing the Picture Size

- 1 Press the  button on the remote control.
 - When you are viewing the Main image:
The image will change as shown below whenever you press this button. (16:9 → 4:3 → Zoom → Panorama)



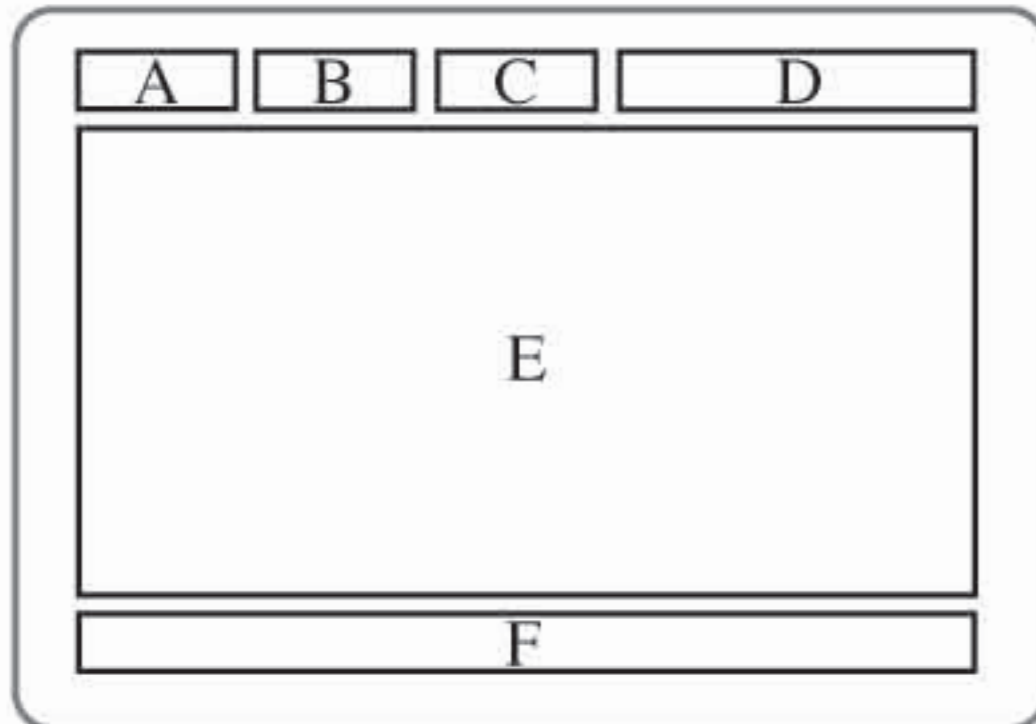
Display a Still Image

- 1 Press the **Still** () button on the remote control.
 - The picture does not move but the sound plays normally.
 - Press this button again if you want to go back to a normal picture.



Teletext Functions

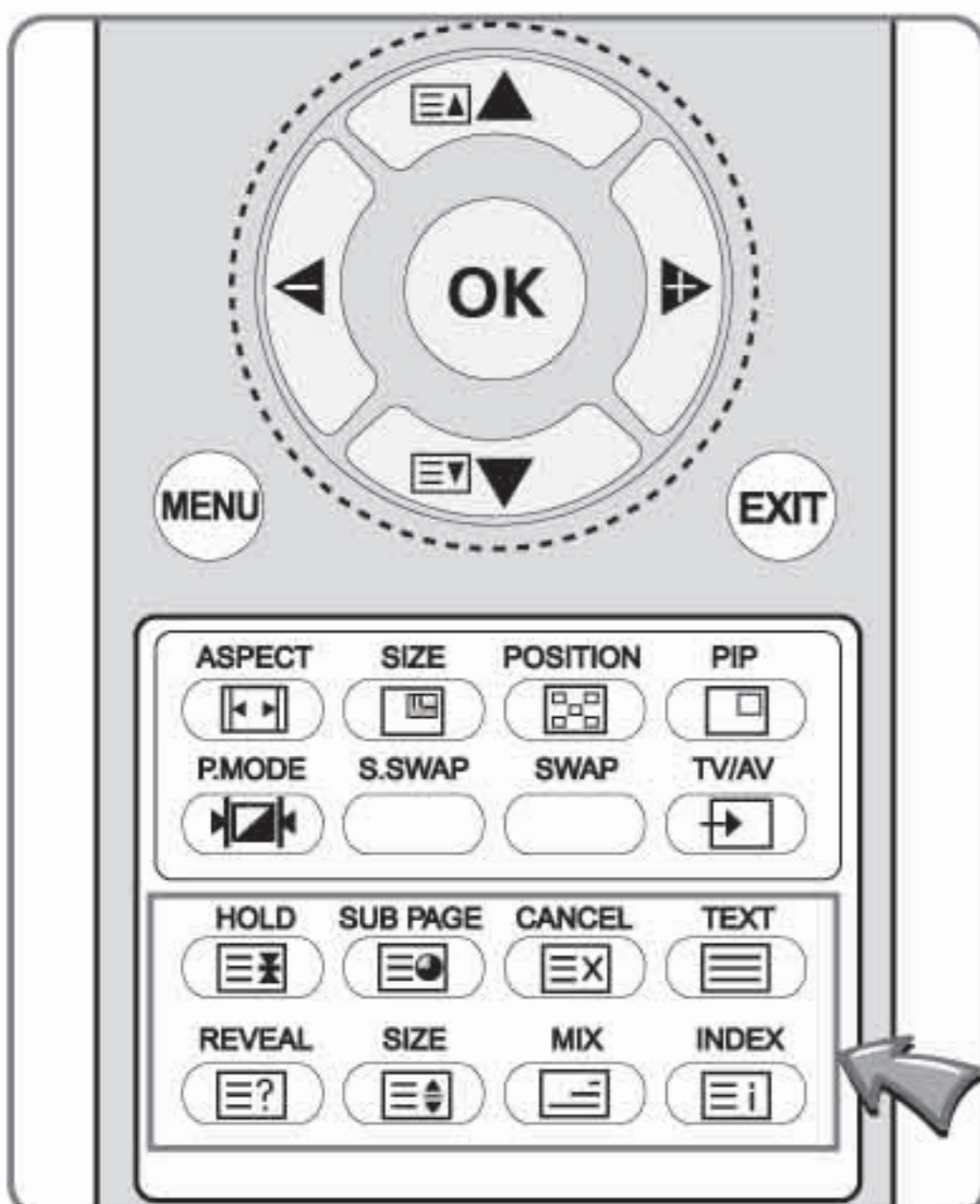
The Teletext page of most TV channels provide information such as TV programme times, News bulletins, Weather forecasts, Travel information, or Sports results.



Functions of the teletext

Part	Display Contents
A	Selected page number.
B	Broadcast Station identity.
C	Current page number or searching status.
D	Date and time.
E	Text information.
F	FASTEXT information. Red, Green, Yellow, Cyan






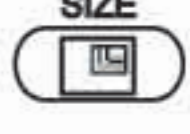
Displaying the Teletext Information

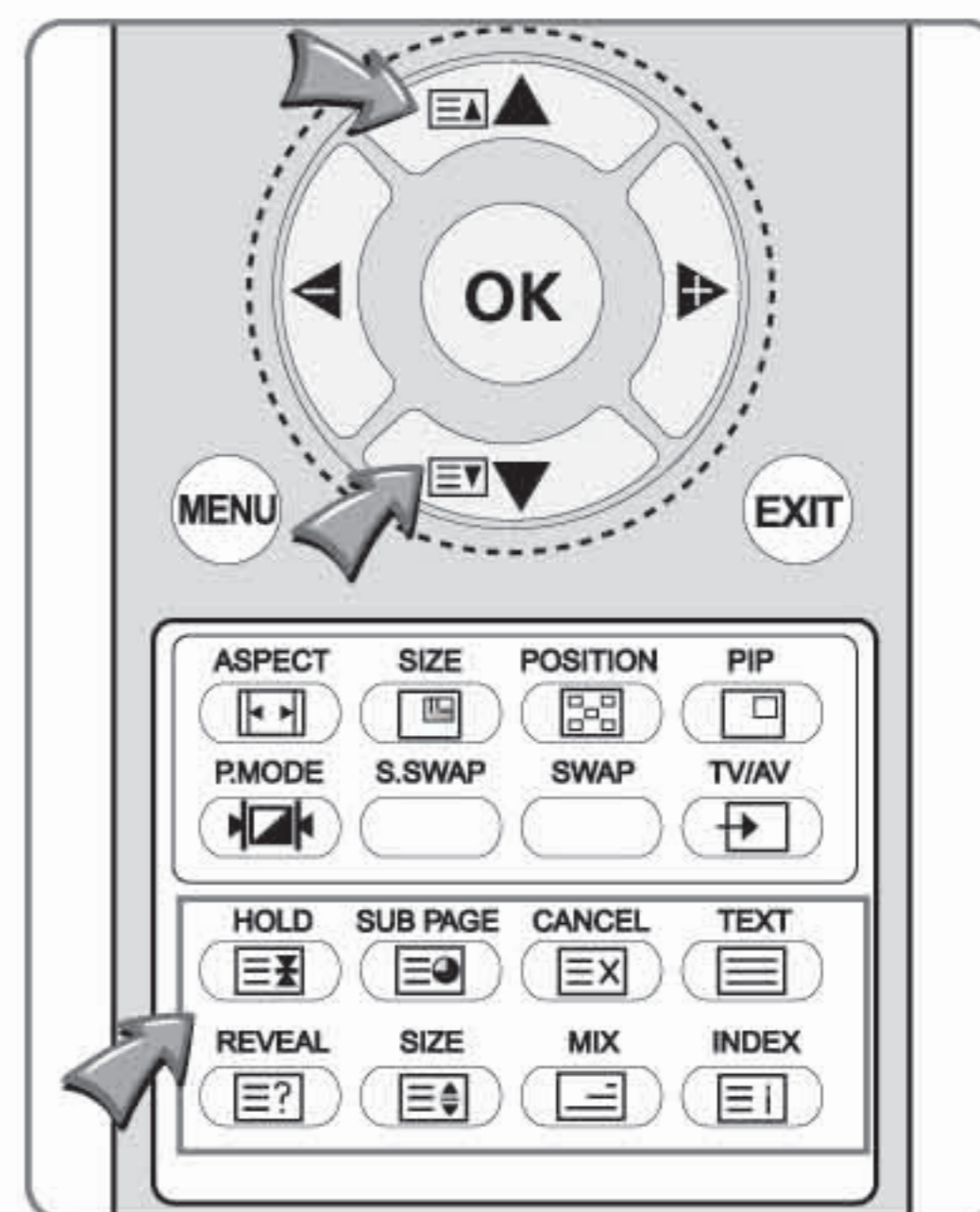


- 1 Select the channel providing the teletext service using the () or () button.
- 2 Press the **TEXT** () button to activate the teletext mode. The contents of page 100 are displayed.
- 3 To display the index page, press the **INDEX** () button.
- 4 To display the teletext page simultaneously with the actual broadcast, press the **MIX** () button.
- 5 To return to normal viewing press the **CANCEL** () button. "???" (specific characters) is displayed at the upper left until the new screen is selected.
- 6 To exit from the teletext mode, press the **TEXT** () button again.

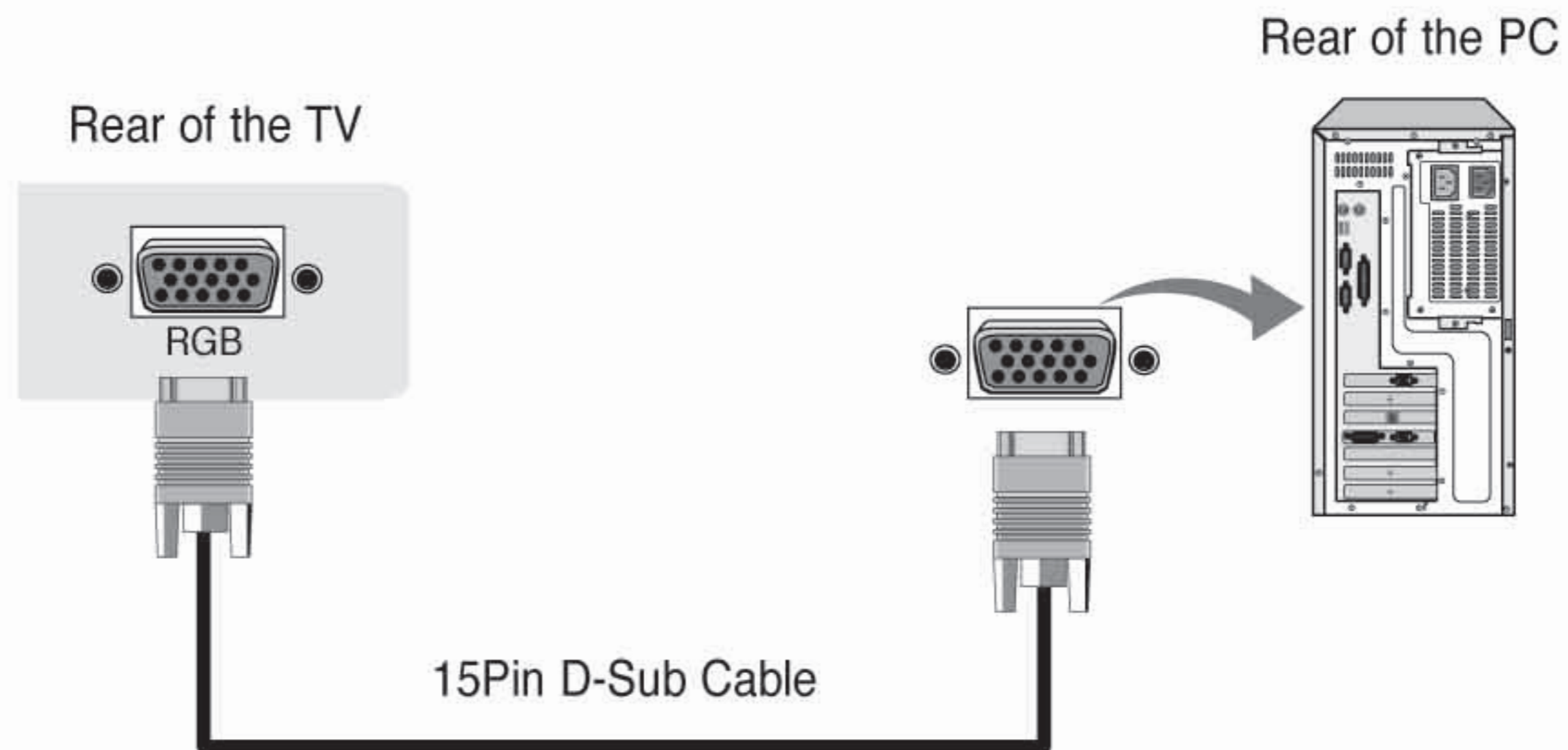
Selecting a Special Teletext Functions

Selecting a Special Teletext Functions

MENU	Functions
REVEAL 	Displays concealed text such as answer to quiz games. To return to normal viewing, press this button again.
SUB-PAGE 	Displays a secondary page by entering its number.
PAGE UP 	Displays the next page.
PAGE DOWN 	Displays the previous page.
HOLD 	When the secondary pages are displayed in sequence, press the HOLD button. To freeze the current display page, press the HOLD button again to resume.
SIZE 	Whenever you press this button, the letter size of the page will be changed. Once press : The letter of the top half page enlarge to double size. Twice press : The letter of the bottom half page enlarge to double size. Three times press : Return to the normal viewing.




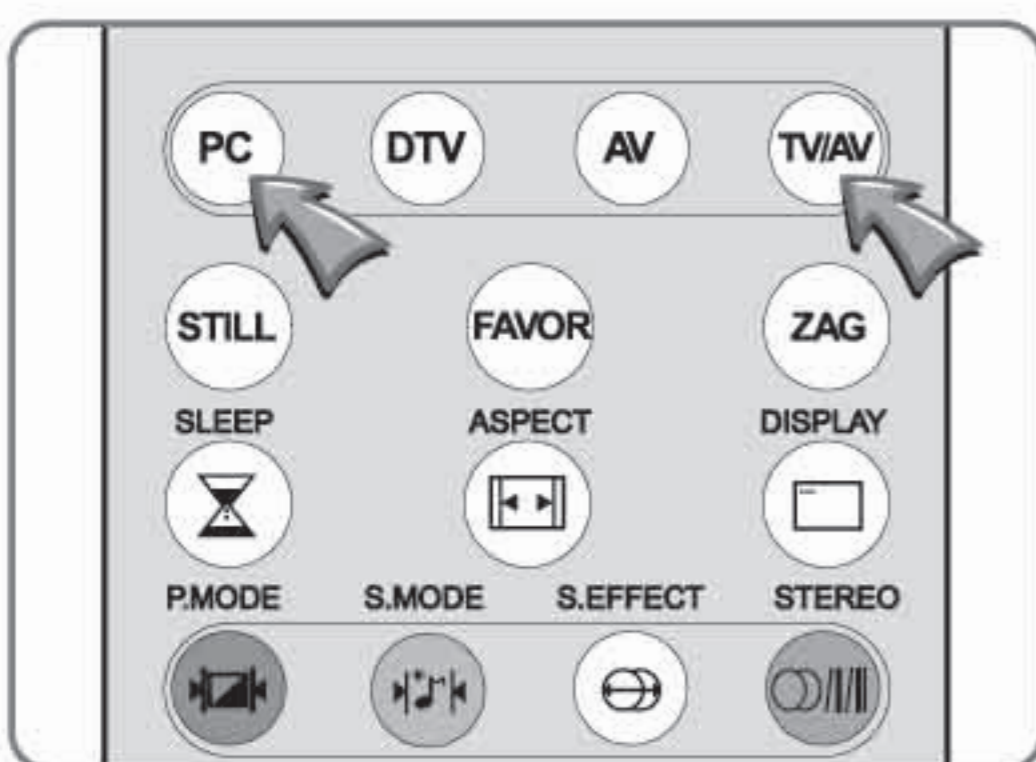
Connecting to the PC



- ◆ Connect the 15Pin D-Sub Cable to the **RGB INPUT** port on the TV and output port on the Rear of the PC.

To use the TV as a PC Display

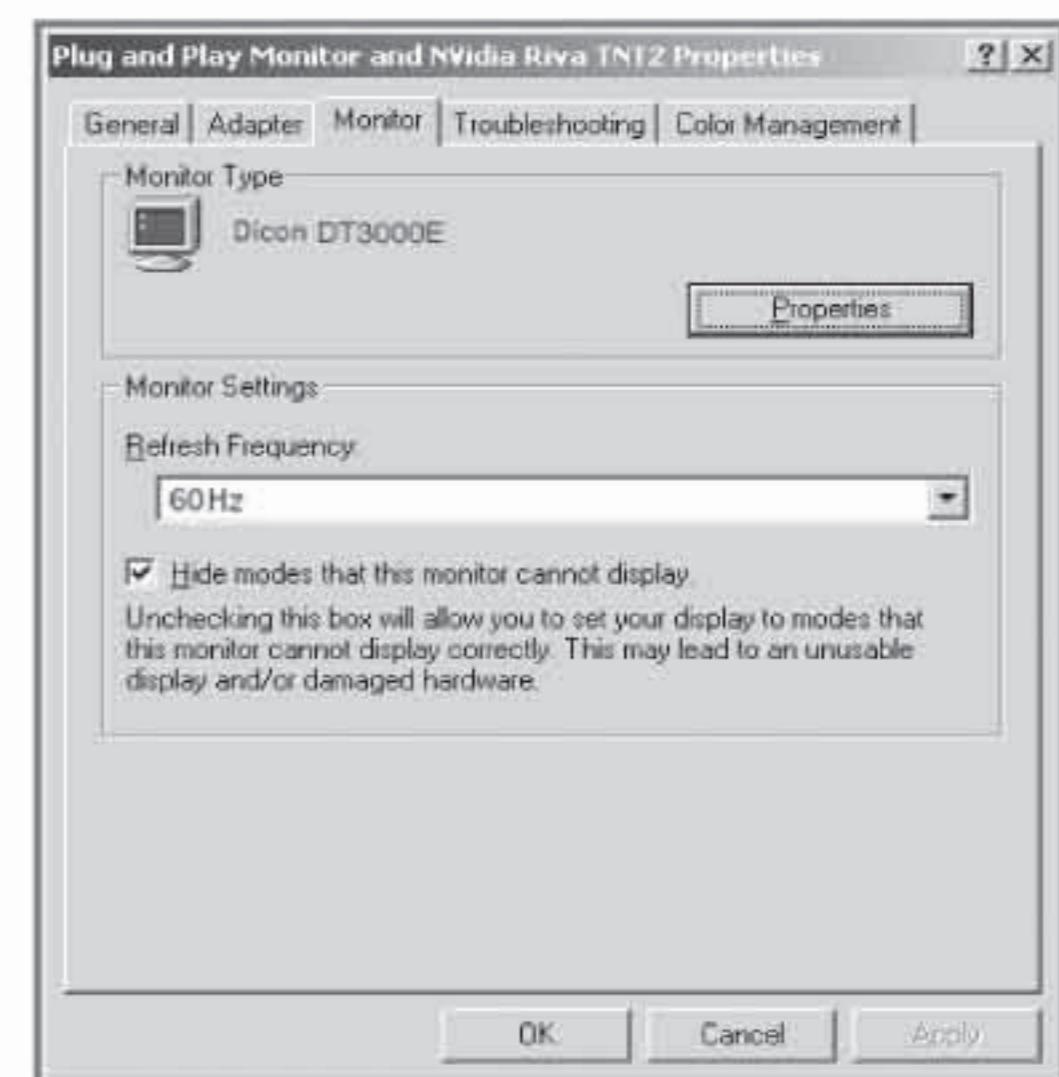
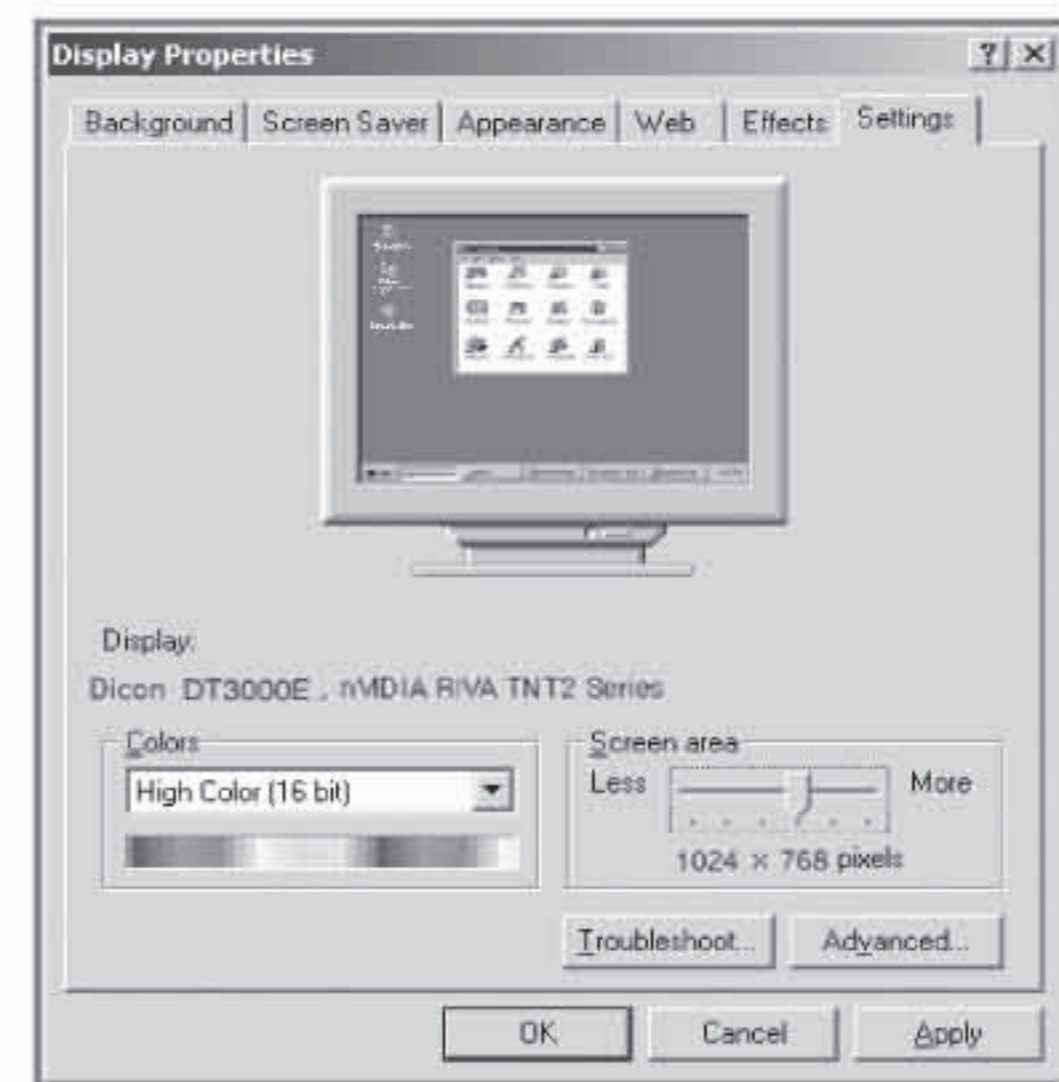
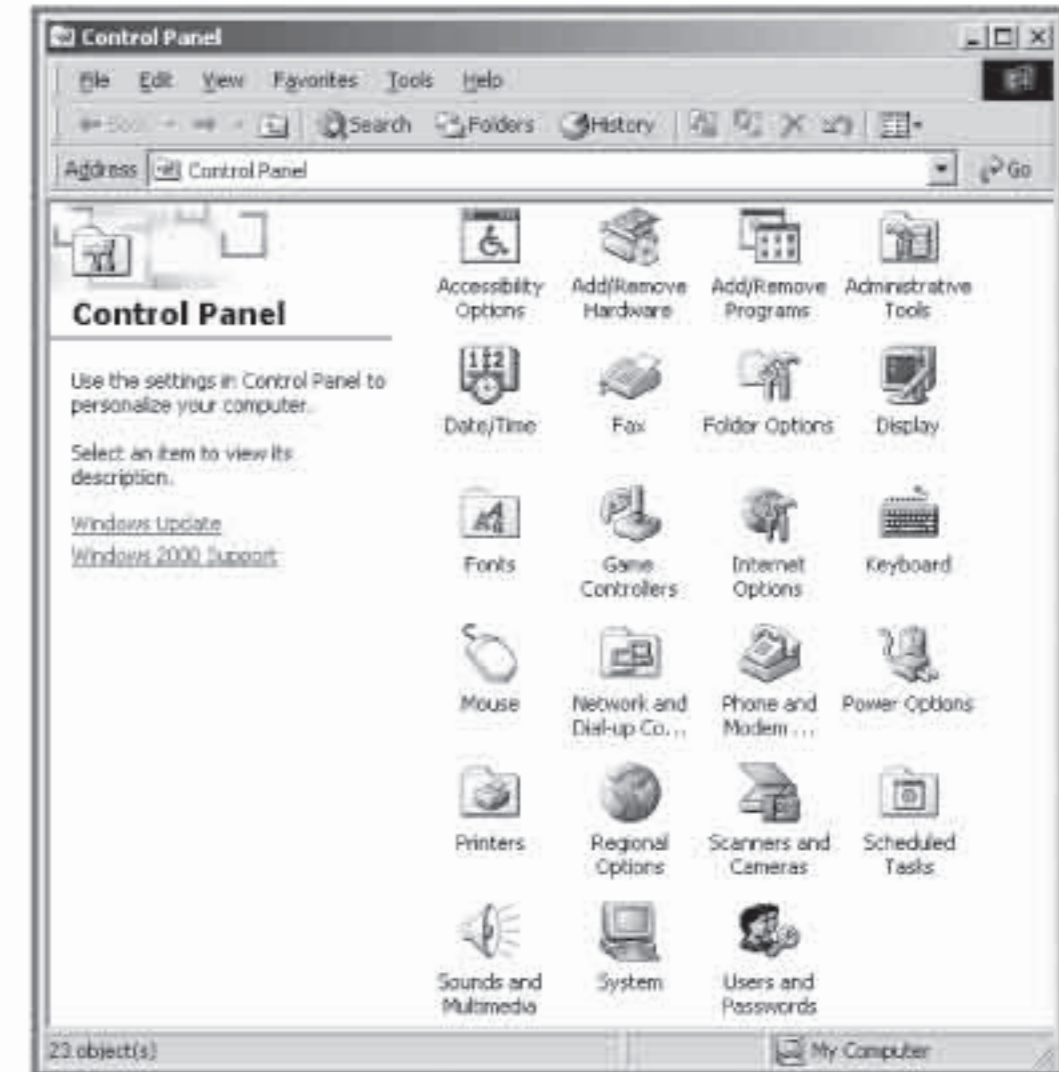
- 1 Turn the PC on.
- 2 Press the **PC** or () button on the remote control to select the PC.
- 3 Set up the PC software. (See page 31)
- 4 Adjust the screen in PC Mode. (See page 32~34)



Setting the PC Software

- 1 First, click on **Settings** on the Windows **start** menu and click on "**Control Panel**".
- 2 Double click on the **Display** icon.
- 3 Click on the **Settings** tab on the display dialog-box.
- 4 Adjust the resolution to 1024x768 pixels.
- 5 Click the **Advanced** button and click the **Monitor** tab on the dialog-box. Set the vertical-frequency to **60Hz** and then click the **OK** button.

- ☛ - Maximum resolution depends on the Video Card.
- Maximum supported resolution is 1024 X 768 @ 75Hz ,
You can get the best picture at 1024 X 768@ 60Hz.
- There are 16,770,000 supported colours.



Adjusting the Screen Geometry

Geometry
Picture
Sound
Clock
Language
Advanced

MENU : Previous ◀▶ : Select
EXIT : Exit OK : Select
▲▼ : Position

Geometry

H.Size ██████████ 100
H.Position ██████████ 20
V.Position ██████████ 20
Phase ██████████ 80
Reload

MENU : Previous ◀▶ : Adjust
EXIT : Exit
▲▼ : Position

Geometry

H.Size ██████████ 100
H.Position ██████████ 20
V.Position ██████████ 20
Phase ██████████ 80
Reload

MENU : Previous ◀▶ : Adjust
EXIT : Exit
▲▼ : Position

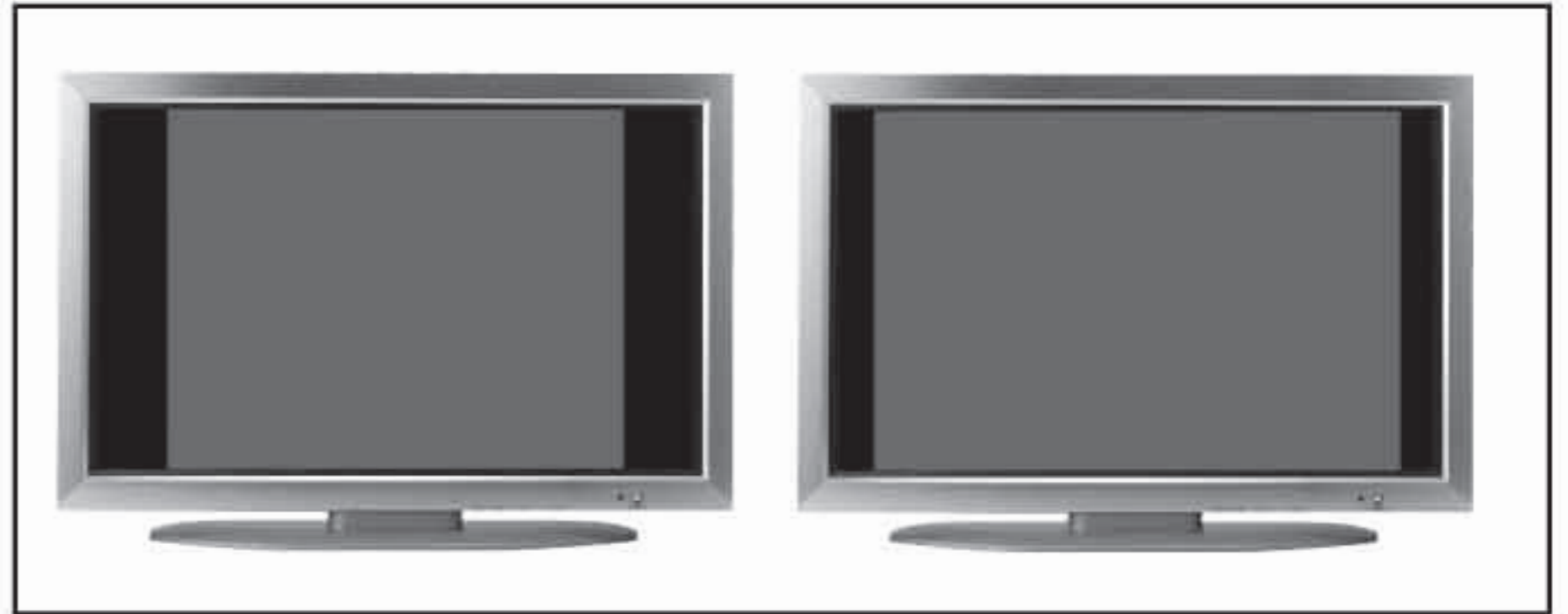
Geometry

H.Size ██████████ 100
H.Position ██████████ 20
V.Position ██████████ 20
Phase ██████████ 80
Reload

MENU : Previous ◀▶ : Adjust
EXIT : Exit
▲▼ : Position

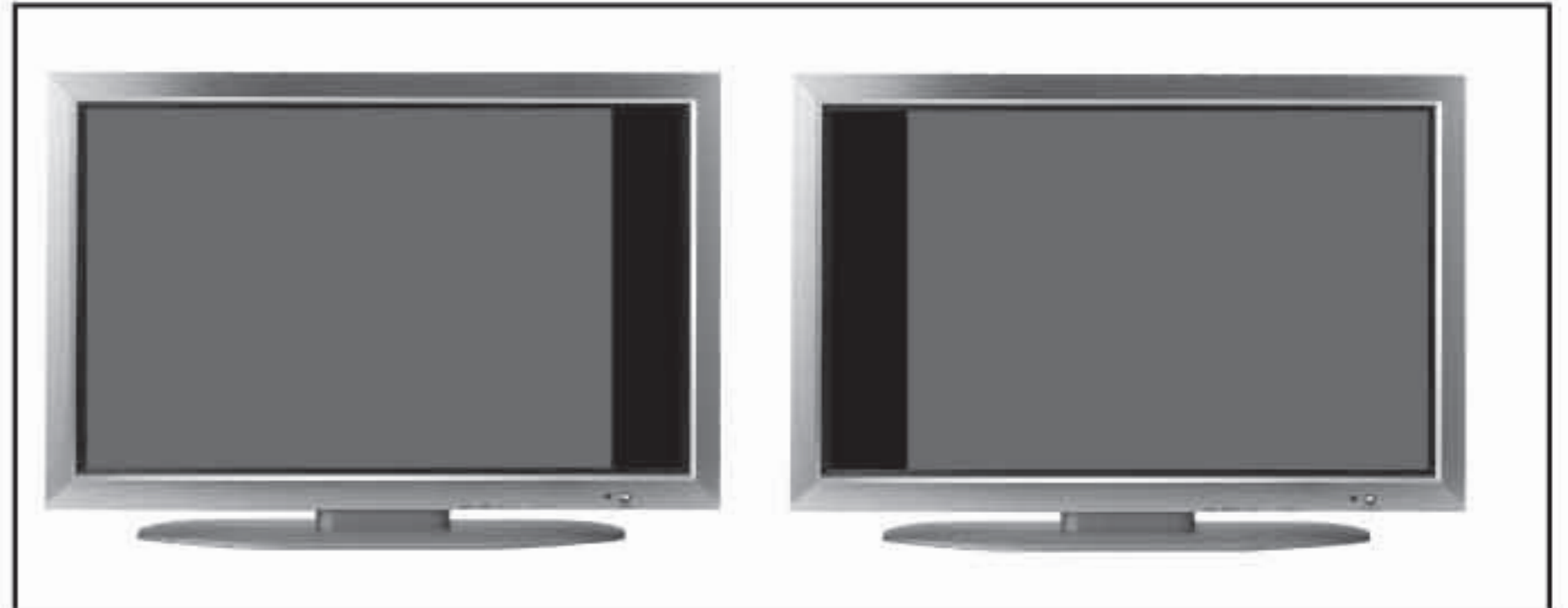
Adjusting the horizontal size

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Geometry** group and press the (**⏏**) or **OK** button.
- 3 press the (**⏏**) button to select **H.Size**.
- 4 press the (**⏏**) button to adjust the horizontal size.



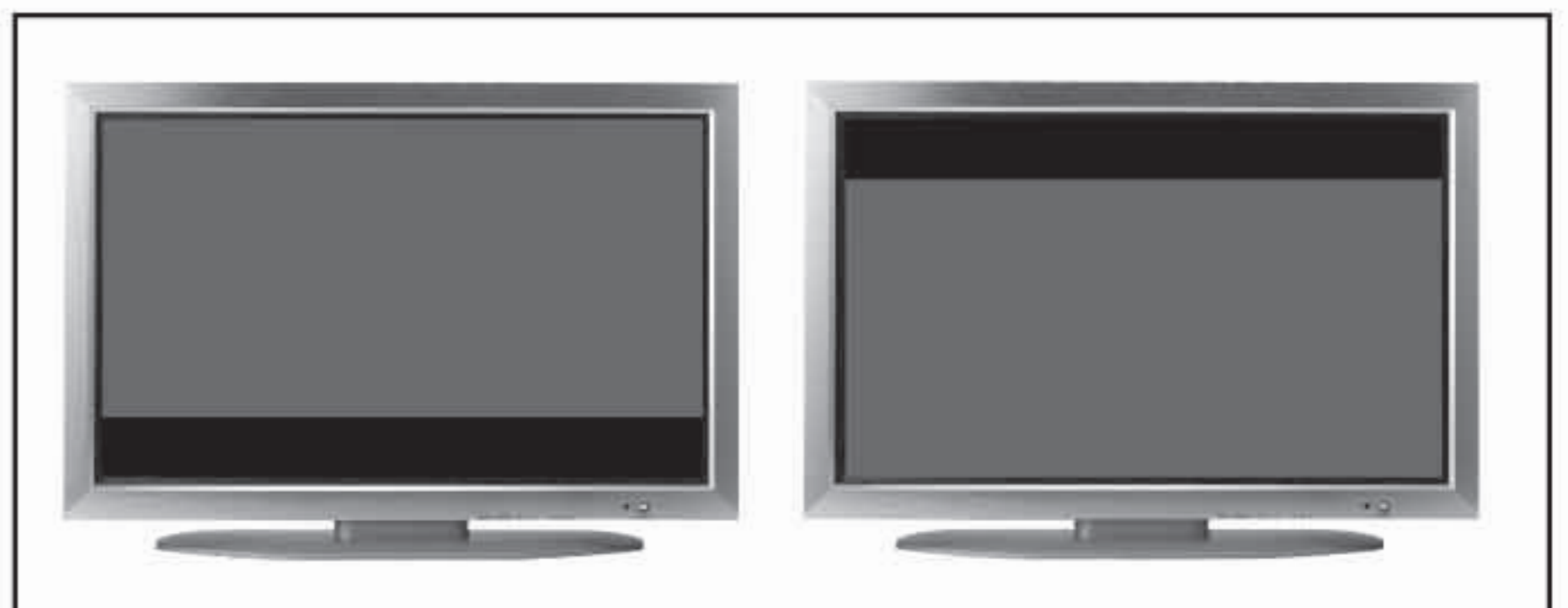
Adjusting the horizontal position

- 1 Press the (**i**) button to select **H.Position**.
- 2 Move the PC screen to the right or left by pressing the (**⏏**) button.



Adjusting the vertical position

- 1 Press the (**i**) button to select **V.Position**.
- 2 Move the PC screen up or down by pressing the (**⏏**) button.



Adjusting the Screen Geometry

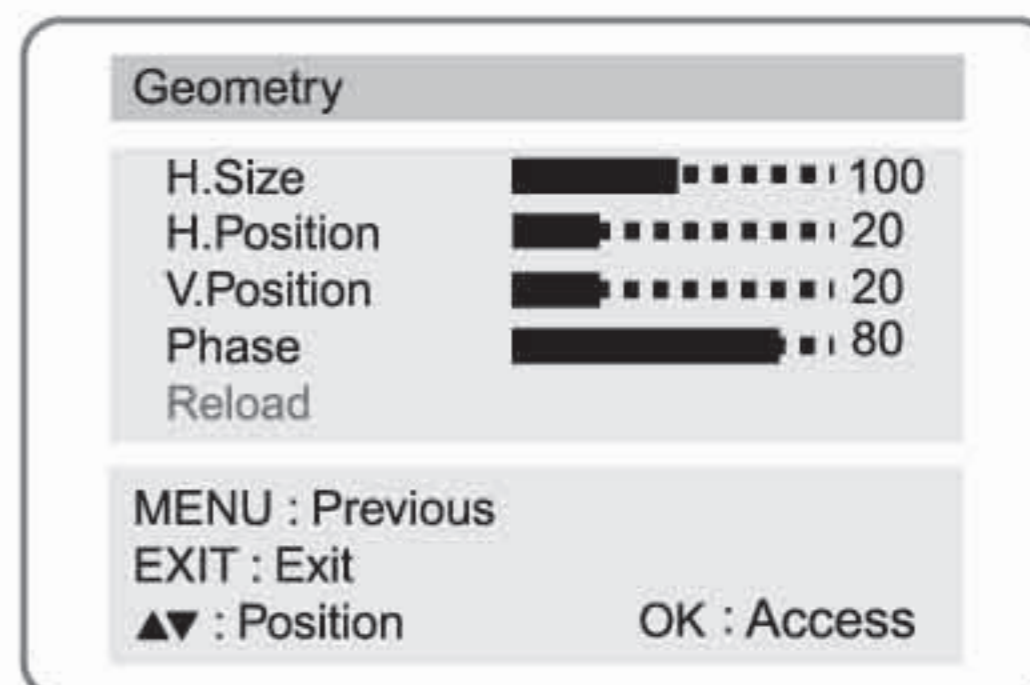
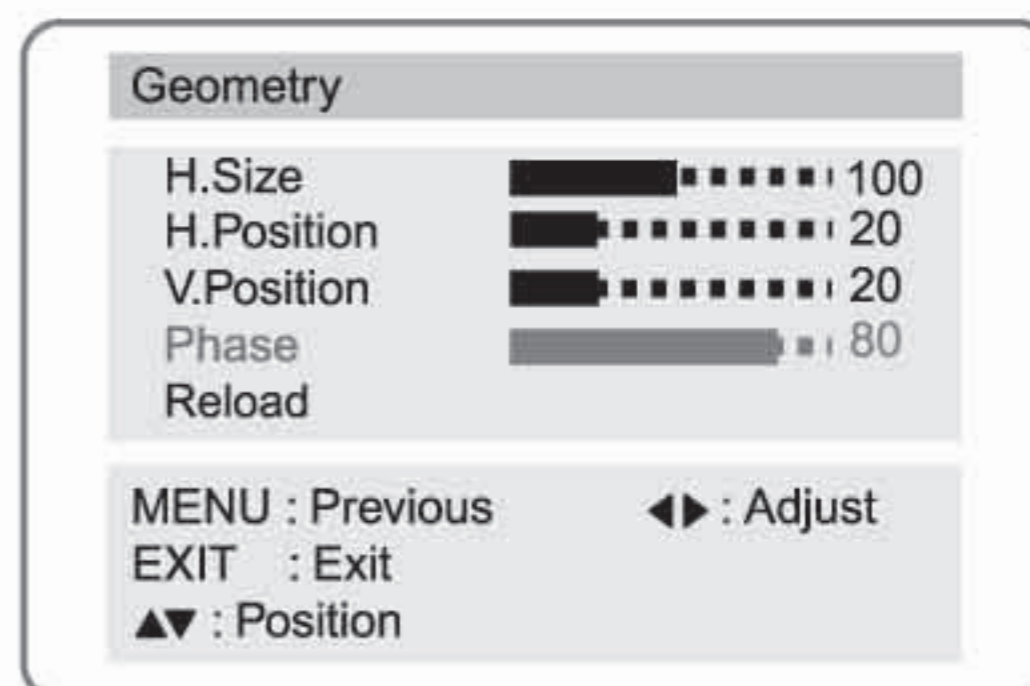
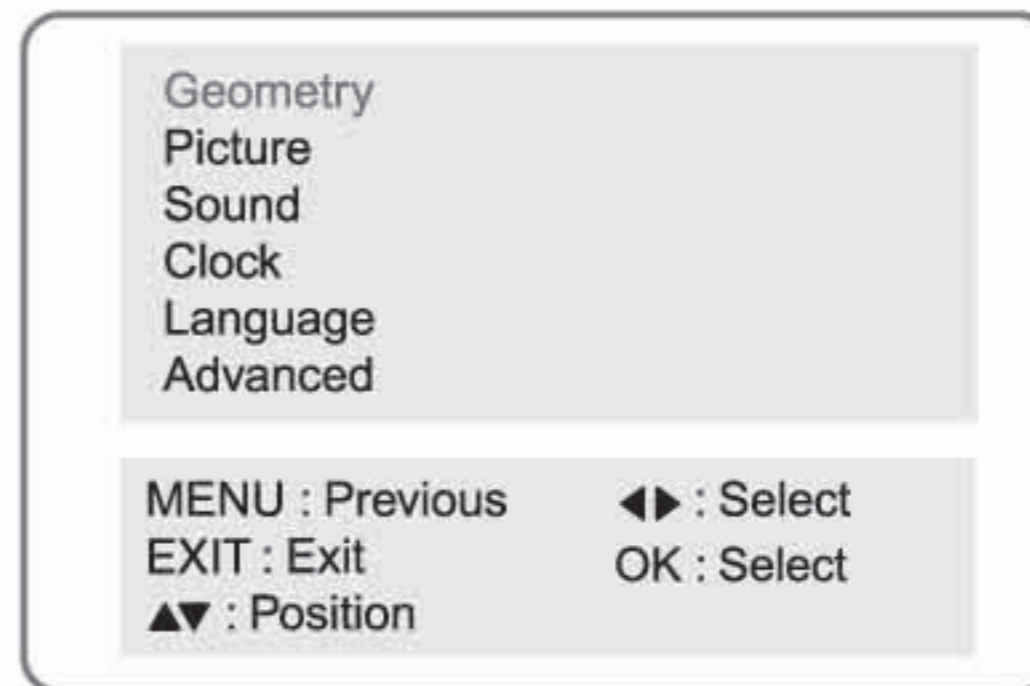
Adjusting the phase

- 1 Press the **MENU** button.
- 2 Press the (**i**) button to select the **Geometry** group and press the (**⏏**) or **OK** button.
- 3 Press the (**i**) button to select **Phase**.
- 4 Press the (**⏏**) button to adjust the Phase.

Reload Geometry Values

- 1 Press the (**i**) button to select **Reload**.
- 2 Press the **OK** button.

Geometry setting will be reset to the factory default settings.

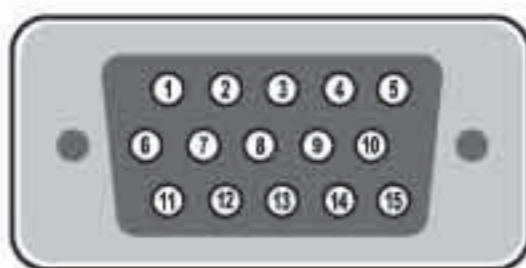


Standard Display Mode

If the signal from the system equals the standard signal mode, the screen will adjust automatically.
 If the signal from the system does not equal the standard signal, adjust the display mode as shown below referring to your video card instructions. Otherwise there will be no picture or only power may turn on.

Resolution	Horizontal (KHz)	Vertical (Hz)	Clock Frequency (MHz)	Polarity (H/V)
640x350	31.469	70.086	25.175	+ / -
720x400	31.469	70.087	28.322	- / +
VGA, 640x480	31.469	59.940	25.175	- / -
VGA, 640x480	37.500	75.000	31.500	- / -
VGA, 640x480	37.861	72.809	31.500	- / -
SVGA, 800x600	37.879	60.317	40.000	+ / +
SVGA, 800x600	46.875	75.000	49.500	+ / +
SVGA, 800x600	48.077	72.188	50.000	+ / +
XGA, 1024x768	48.363	60.004	65.000	- / -
XGA, 1024x768	56.476	70.069	75.000	- / -
XGA, 1024x768	60.023	75.029	78.750	+ / +

PC Input Connector (15Pin D-Sub)



Pin	PC IN
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal Sync
14	Vertical sync
15	Clock (DDC)


Troubleshooting

For TV

No picture or sound.

- Make sure the TV is plugged in.
- Make sure the power cord is connected to the consent correctly.
- Check the power failure.


Screen is black.

- Make sure the external signal source mode is selected.
- Press the **TV/AV** () button to change to TV.

Picture is OK but there is no sound.

- Press the **Mute** button.
- Check another channel.
- Press the button to increase the volume.

Poor sound quality.

- Make sure the channel using a stereo broadcast by pressing the Display() button.
Select Mono. The sound quality of a stereo broadcast may be unstable in an area with a weak signal. (See page 19)

No image on a specific channel.

- Make sure the channel selection is correct.
- Change the antenna direction to the right or left.
- Adjust the fine tuning of the channel.

Image is not stable and may appear to vibrate , horizontal bars appear.

- Adjust the fine tuning of the channel.
- Make sure there is no powerful electromagnetic wave interference from the transmitting station.
- Stop using a hair drier, electric drill or electric blender.

No color on a specific channel (a black & white image).

- Check other channels to see if the specific channel is broadcasting a black & white program.
- Adjust the colour. (See page 16)

Black or white dots appear on all channels or a specific channel.

- Make sure the antenna is connected correctly. (See page 10)
 - Make sure the status of the antenna or wire is good .
 - Adjust the fine tuning of the channel.
-

For Monitor

"Check the signal cable" message

- Check if the signal cable(15Pin D-sub) is properly connected to the computer. (See page 30)

"Sync. out of range" message

- This message may appear when the resolution and frequency of the video card in the computer are out the range of the TV. Select the proper resolution and frequency for the TV. (See page 35)

Picture rolls down vertically.

- Check if the signal cable (15Pin D-sub) is properly connected to the computer. (See page 30)

A shadowed area appears on the screen.

- Make sure the resolution and frequency of the computer video card are set properly to the range of the TV. Set the picture again referring to the standard display mode and current mode. (See page 35)

The image is too large or too small.

- Adjust the picture to use the screen position feature. (See page 32)

Horizontal or vertical bars appear on the screen.

- Adjust the frequency and fine tuning.
 - Adjust the resolution and frequency to the recommended specifications. (See page 35)
(1024 x 768 @ 60Hz)
-

Specifications

Model name		26" LCD Display & HDTV	
LCD	Size	26" Diagonal	
	Display Size	566.4mm (H) x 339.84mm (V)	
	Pixel Pitch	0.4425mm (H) x RGB x 0.4425mm(W)	
	Pixel Number	1280 x RGB x 768	
	Type	a-si TFT active matrix	
	Brightness	450 cd / m ²	
	Contrast Ratio	500 : 1	
	Viewing Angle	170° (H) / 170° (V)	
VIDEO SYSTEM		UHF/VHF 75 ohm	
TV/VIDEO	Colour System	PAL / SECAM / AV NTSC	
	Sound System	B/G, D/K, I, L, L'	
	Video System	CVBS, S-VHS	
DTV	Y/Pb/Pr	COMPONENT : 480i/p, 576i/p, 720p, 1080i	
SCART	Video Input	1.0 Vp-p @ 75 ohm	
	Audio Input	500mV RMS	
	RGB Input	0.7 Vp-p @ 75 ohm	
PC	Sync.	Horizontal	30~61KHz
		Vertical	56~75Hz
	Display Colour	16.7M (true)	
	Max. Resolution	1024 x 768	
	Input Signal	RGB	
	Sync.(H/V Separate)	TTL, Positive or Negative	
Audio Output		6.5W + 6.5W Max. (Speaker 4)	
Power Supply		AC 110-240V 50 / 60Hz	
Power Consumption		Max. 147W	
Power Saving		< 5W	
Dimension (WxHxD)		833mm x 462mm x 203mm (With stand)	
Weights		14.0Kg (With stand)	
Accessories		Remote Control, Battery (AAA type), Operating Instructions Power Cord, Cable Tie (1EA)	

• Design and specifications are subject to change without notice.

Specifications

Model name		27" LCD Display & HDTV	
LCD	Size	26.97" Diagonal	
	Display Size	597.12mm (H) x 335.88mm (V)	
	Pixel Pitch	0.1555mm (H) x RGB x 0.4665mm(W)	
	Pixel Number	1280 x RGB x 720	
	Type	a-Si TFT active matrix	
	Brightness	500 cd / m ²	
	Contrast Ratio	500 : 1	
	Viewing Angle	170° (H) / 170° (V)	
VIDEO SYSTEM		UHF/VHF 75 ohm	
TV/VIDEO	Colour System	PAL / SECAM / AV NTSC	
	Sound System	B/G, D/K, I, L, L'	
	Video System	CVBS, S-VHS	
DTV	Y/Pb/Pr	COMPONENT : 480i/p, 576i/p, 720p, 1080i	
SCART	Video Input	1.0 Vp-p @ 75 ohm	
	Audio Input	500mV RMS	
	RGB Input	0.7 Vp-p @ 75 ohm	
PC	Sync.	Horizontal	30~61KHz
		Vertical	56~75Hz
	Display Colour	16.7M (true)	
	Max. Resolution	1024 x 768	
	Input Signal	RGB	
	Sync.(H/V Separate)	TTL, Positive or Negative	
Audio Output		4W + 4W Max. (Speaker 4)	
Power Supply		AC 110-240V 50 / 60Hz, DC 24V / 6.67A	
Power Consumption		Max. 113W	
Power Saving		< 5W	
Dimension (WxHxD)		854mm x 453mm x 203mm (With stand)	
Weights		14.0Kg (With stand)	
Accessories		Remote Control, Battery (AAA type), Operating Instructions Power Cord, DC Adapter, Cable Tie (1EA)	

• Design and specifications are subject to change without notice.

Specifications

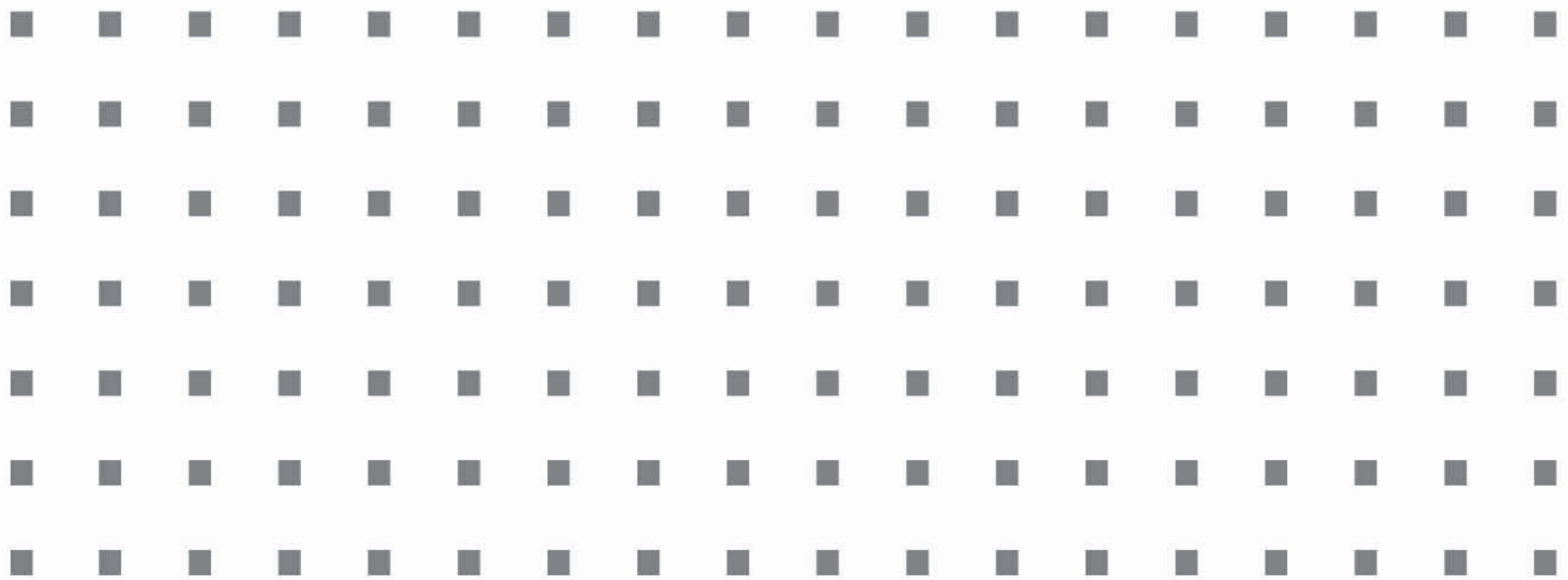
Model name		30" LCD Display & HDTV	
LCD	Size	29.5" Diagonal	
	Display Size	648.8mm (H) x 391.52mm (V)	
	Pixel Pitch	0.1675mm (H) x RGB x 0.5025mm(W)	
	Pixel Number	1280 x RGB x 768	
	Type	a-Si TFT active matrix	
	Brightness	500 cd / m ²	
	Contrast Ratio	500 : 1	
	Viewing Angle	170° (H) / 170° (V)	
VIDEO SYSTEM		UHF/VHF 75 ohm	
TV/VIDEO	Colour System	PAL / SECAM / AV NTSC	
	Sound System	B/G, D/K, I, L, L'	
	Video System	CVBS, S-VHS	
DTV	Y/Pb/Pr	COMPONENT : 480i/p, 576i/p, 720p, 1080i	
SCART	Video Input	1.0 Vp-p @ 75 ohm	
	Audio Input	500mV RMS	
	RGB Input	0.7 Vp-p @ 75 ohm	
PC	Sync.	Horizontal	30~61KHz
		Vertical	56~75Hz
	Display Colour	16.7M (true)	
	Max. Resolution	1024 x 768	
	Input Signal	RGB	
	Sync.(H/V Separate)	TTL, Positive or Negative	
Audio Output		4W + 4W Max. (Speaker 4)	
Power Supply		AC 110-240V 50 / 60Hz, DC 24V / 6.67A	
Power Consumption		Max. 142W	
Power Saving		< 5W	
Dimension (WxHxD)		902mm x 475mm x 203mm (With stand)	
Weights		16.0Kg (With stand)	
Accessories		Remote Control, Battery (AAA type), Operating Instructions Power Cord, DC Adapter, Cable Tie (1EA)	

• Design and specifications are subject to change without notice.

Specifications

Model name		32" LCD Display & HDTV	
LCD	Size	32" Diagonal	
	Display Size	687.36mm (H) x 412.42mm (V)	
	Pixel Pitch	0.537mm (H) x RGB x 0.537mm(W)	
	Pixel Number	1280 x RGB x 768	
	Type	a-Si TFT active matrix	
	Brightness	450 cd / m ²	
	Contrast Ratio	500 : 1	
	Viewing Angle	170° (H) / 170° (V)	
VIDEO SYSTEM		UHF/VHF 75 ohm	
TV/VIDEO	Colour System	PAL / SECAM / AV NTSC	
	Sound System	B/G, D/K, I, L, L'	
	Video System	CVBS, S-VHS	
DTV	Y/Pb/Pr	COMPONENT : 480i/p, 576i/p, 720p, 1080i	
SCART	Video Input	1.0 Vp-p @ 75 ohm	
	Audio Input	500mV RMS	
	RGB Input	0.7 Vp-p @ 75 ohm	
PC	Sync.	Horizontal	30~61KHz
		Vertical	56~75Hz
	Display Colour	16.7M (true)	
	Max. Resolution	1024 x 768	
	Input Signal	RGB	
	Sync.(H/V Separate)	TTL, Positive or Negative	
Audio Output		4W + 4W Max. (Speaker 4)	
Power Supply		AC 110-240V 50 / 60Hz	
Power Consumption		Max. 147W	
Power Saving		< 5W	
Dimension (WxHxD)		950mm x 536mm x 203mm (With stand)	
Weights		18.0Kg (With stand)	
Accessories		Remote Control, Battery (AAA type), Operating Instructions Power Cord, Cable Tie (1EA)	

• Design and specifications are subject to change without notice.



P/N : LD2600 ~ 3200GE