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User's Guide

Digital LCD TV

MODELS : E200D | E201D
E230D | E231D

P/N 632 0240 107 Rev.01

www.hyundait.com

FIT **HDMI** **HD**
ENGINE ready

The "HD ready" logo is a trademark of EICTA

Table of Contents

General Information

Safety Precaution	2
Contents of the Package	6
Products Sold Separately	6
Parts Names and Functions	7
Remote Control	9

Connections

Connecting Indoor/Outdoor TV Antenna(UHF/VHF)	13
Connecting Antenna input Connection to External Equipments	13
Before Connecting the Video/Audio Connections to External Devices... ..	14
How to Connect a VCR, Cable Receiver, Camcorder, Game Player	14
How to Connect to a PC	15
Scart Connection to the External Input/Output	16
HDMI Connection (For HDMI model only)	17
How to Set the OSD Screen	18

Picture Setup

How to Select the Picture Mode	19
How to Set the Desired Picture	19
How to Set Image Adjust in PC Mode	20
How to Select a Color Tone	20
How to Set the Display Size	21

Sound Setup

How to Adjust the Desired Audio Mode	21
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Channel Setup

Choosing the your Language	22
How to Select Auto Scan(Analog TV)	22
How to Select Manual Scan	23
How to Set the Program Edit(Skip, Swap)	24

Function Setup

How to Set Clock, Sleep Time, ON/OFF Time	25
How to Set Teletext in ATV	26
Selecting Teletext Display Options in ATV Mode	26

DTV Setup

How to Search Automatically(IDTV)	27
How to Search Manually	27
How to Check Channel State	28
How to Use the Guide (EPG : Electronic Program Guide)	29
How to Select Channel List	30
How to Set Favorite Channel	30
How to Use Channel List Mode	31
How to Lock Channel	31
How to Set the Channel Order	32
How to Delete Channel	32
How to Add Channel	33
How to Factory Set	33
How to Day Light Saving Time(Summer Time)	34
How to TV/RADIO switching	34
How to Subtitle / Audio	35
How to Select Channel / Information	35
How to Set Teletext in DTV	36

Appendix

Troubleshooting	37
Product Specifications	39

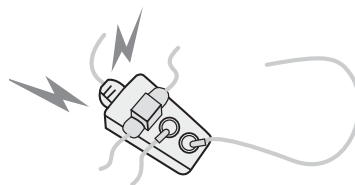
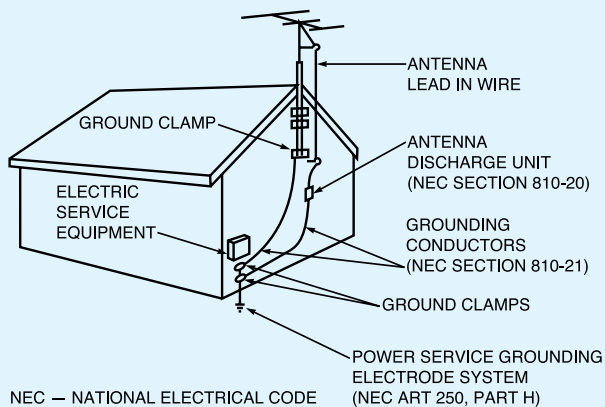
Safety Precaution

The contents of this section are provided for the safety of users and their property. Please read the instructions carefully before using.

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instruction



Do not connect multiple electrical appliances to a single outlet.

- It may cause a fire due to overheating from the outlet.

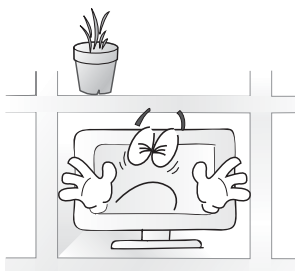
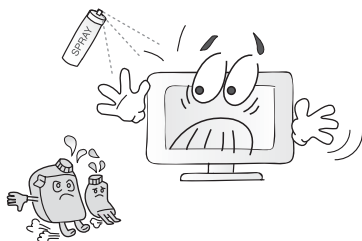


Make sure to remove the speakers before moving the TV with speakers mounted on it.

- When the speakers are detached from the unit while carrying it, this may cause damage to the unit or personal injury.

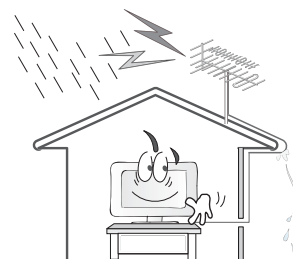
Do not use or store a flammable spray or inflammable things near the TV.

- They may cause explosion or fire.



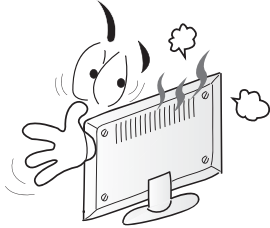
Do not install the TV in a bookshelf, closet, or a place with poor air circulation.

- Fire may be caused due to the rise of internal temperature.



Any necessary action such as making the antenna cable loop at the entrance of the building should be taken to prevent rainwater on the outdoor antenna cable from possibly running indoor.

- If raindrop gets into the TV, it may cause a fire or an electric shock.



Please avoid touching the panel at the rear of TV as it is producing high temperature.

- Direct contact with the hot surface may cause physical burns.

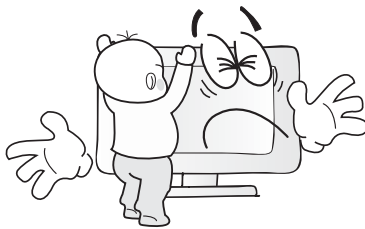


Do not place any heat sources such as radiators and heat registers, etc. near the TV.

- It may cause a fire.

Do not block ventilating slits with a table cloth.

- Blocking the ventilation slits may produce internal heat increase, resulting in a fire.

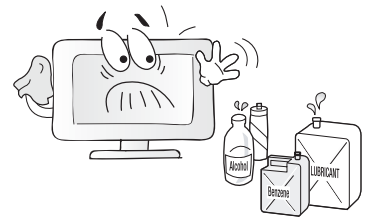
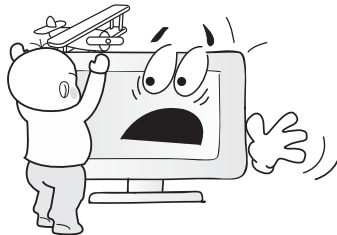


Do not allow children to climb or play on the TV.

- This may cause the TV to fall resulting in serious injury.

Do not place toys and cookies, etc. on the TV, which may attract children's attention.

- This may cause the TV to fall, resulting in serious injury.

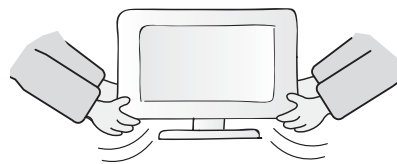


When cleaning the TV, make sure to disconnect the power plug and use a dry, soft cloth for a cleanup.

- Please avoid using chemicals such as wax, benzene, alcohol, thinner, mosquito spray, air freshener, lubricant or synthetic detergent.

Unplug when you do not use your TV for a long time.

- If dust is stacked on the TV, electric shock or fire may be caused from heat, fire, or deterioration of insulation.

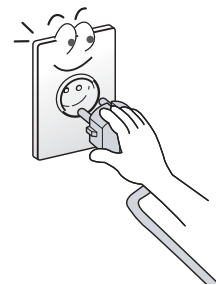


When moving the TV, two or more people are advised to carry it.

- This may cause damage to the unit or personal injury.

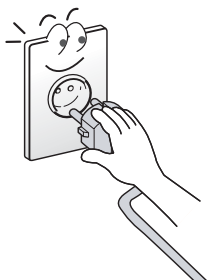
Never touch the power plug or outlet with wet hands.

- This may cause electric shock.



If there is a persistent accumulation of dusts or water on the plug, please make sure to wipe it off using a dry cloth.

- It may cause a fire or an electric shock.

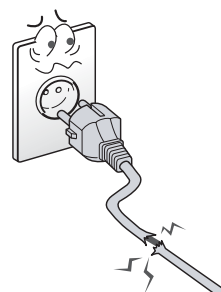


Firmly plug in the power cord so that it does not pull out.

- An unstable connection may cause fire.

Do not use a damaged power cord or plug, or loose outlet.

- It may cause electric shock or fire.

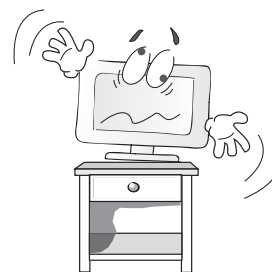


Do not put a water bowl, vase, candle, bug repellent, smoke, cigarette, plants, or heavy thing on the TV.

- It may cause electric shock or fire and also heavy things may cause injury when they fall.

Do not install in a place where there is oil, smoke, excessive humidity, or where water may be sprinkled on it.

- This may cause electric shock or fire.



Do not install on an unstable place or small support.

- This may cause the TV to fall, resulting in serious injury especially to children.

Never attempt to open, fix, or modify your TV.

- When there is a need for fixing, call a service center. Fire or electric shock may be caused.



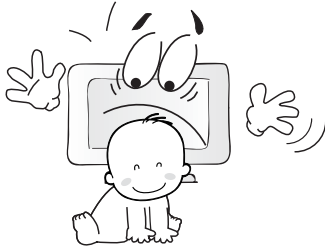
Do not put a metallic object like chopstick, wire, or puncher or inflammables like paper or a match in a vent, headphone jack, or AV jacks of the TV.

- Electric shock or fire may be caused.

When the TV produces abnormal noise, burning smell, or smoke, unplug the TV immediately and call a service center.

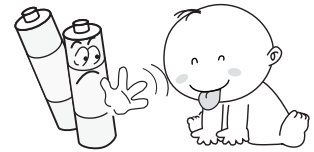
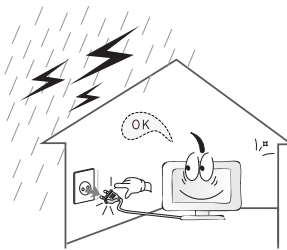
- Electric shock or fire may be caused.





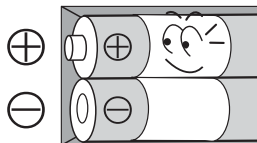
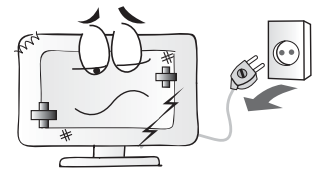
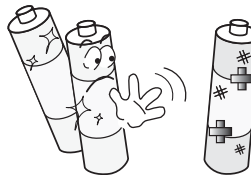
Do not install the product on the floor.
 - This may cause the TV to fall resulting in serious injury.

Unplug the product during lightning or thunderstorms and never touch the antenna cable.
 - It may cause a fire or an electric shock.



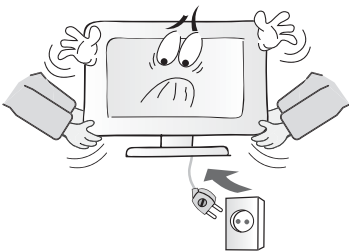
Keep the remote control batteries out of sight and out reach of children.
 - If your child swallows a battery, see your doctor immediately.

When replacing batteries, make sure to match the batteries to the (+) and (-) marks in the battery compartment.
 - Mismatching of polarities may result in internal damage to batteries, fire due to leakage or contamination.

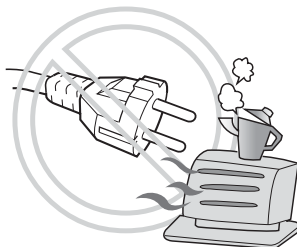


Always use the standard batteries and avoid using old batteries together with new ones.
 - Otherwise it may result in internal damage to batteries, fire due to leakage or contamination.

In the event of damaging or dropping the product, switch off the power and remove the plug.
 - Using a damaged product may cause an electric shock or a fire.
 - Contact your local service center.



Before moving the product, ensure to switch off the power and unplug all the electrical cords and the external connection cords such as an antenna cable and other source connections, etc.
 - Electrical cords may be damaged, resulting in a fire or an electrical shock.



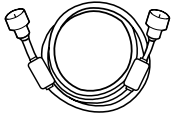
Ensure the power cord doesn't trail across any hot objects like a heater.
 - This may cause a fire or an electrical shock.

Consult a service center or customer service for inside cleaning about once a year.
 - When dust is piled inside the TV for a long time, fire or malfunction may be caused.

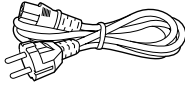


Contents of the Package

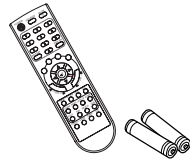
When opening the package, please ensure to check the following accessories.



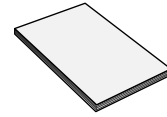
Antenna Cable
(coaxial cable)



Power Cord



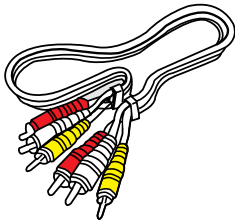
Remote Control &
2 batteries (1.5V AAA)



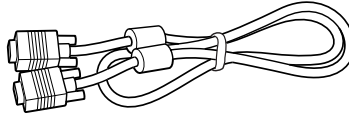
User's Guide

Products Sold Separately

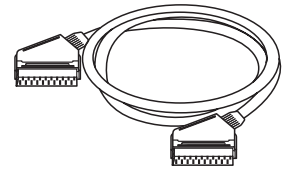
If you want to purchase the following accessories, consult a service center, electronics shops, or parts seller.



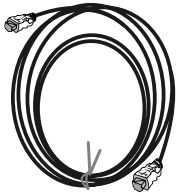
Composite (Video & Audio) cable



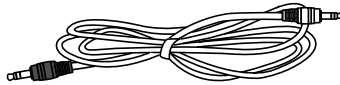
PC signal cable



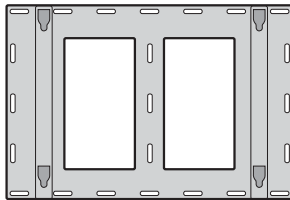
Scart cable



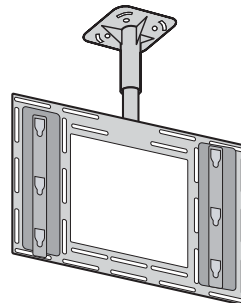
HDMI cable



Audio Cable (PC)



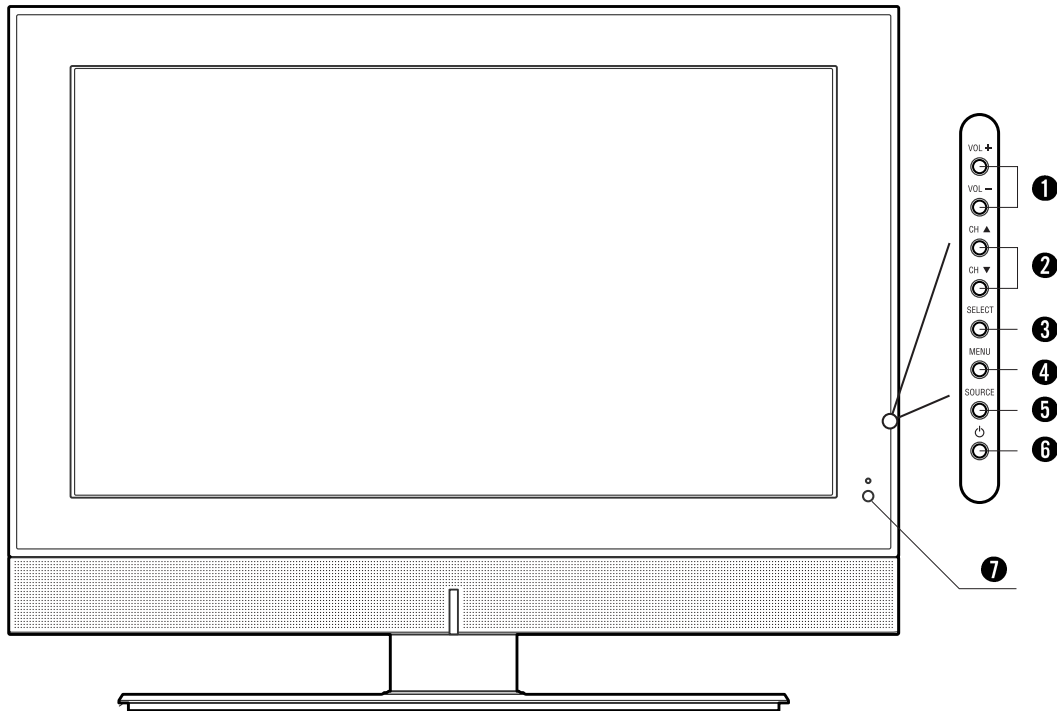
Wall mounting frame



Wall mounting frame

Parts Names and Functions

Front View - E200D/E230D MODEL



* This product image may be a bit different from the actual product.

❶ Volume buttons

Use these buttons to adjust sound levels. These buttons also serve as the cursors of Select/Adjust in Menu mode.

❷ Channel buttons

Use these buttons to change channels. These buttons also serve as the cursors of Down and Up buttons in Menu mode.

❸ Select button

Use this button to select each item from the menu mode.

❹ Menu button

Use this button to display or exit from the menu mode.

❺ Source button

Use this button to switch among inputs connected to the TV.

❻ Power button

Use this button to turn on or off the TV.

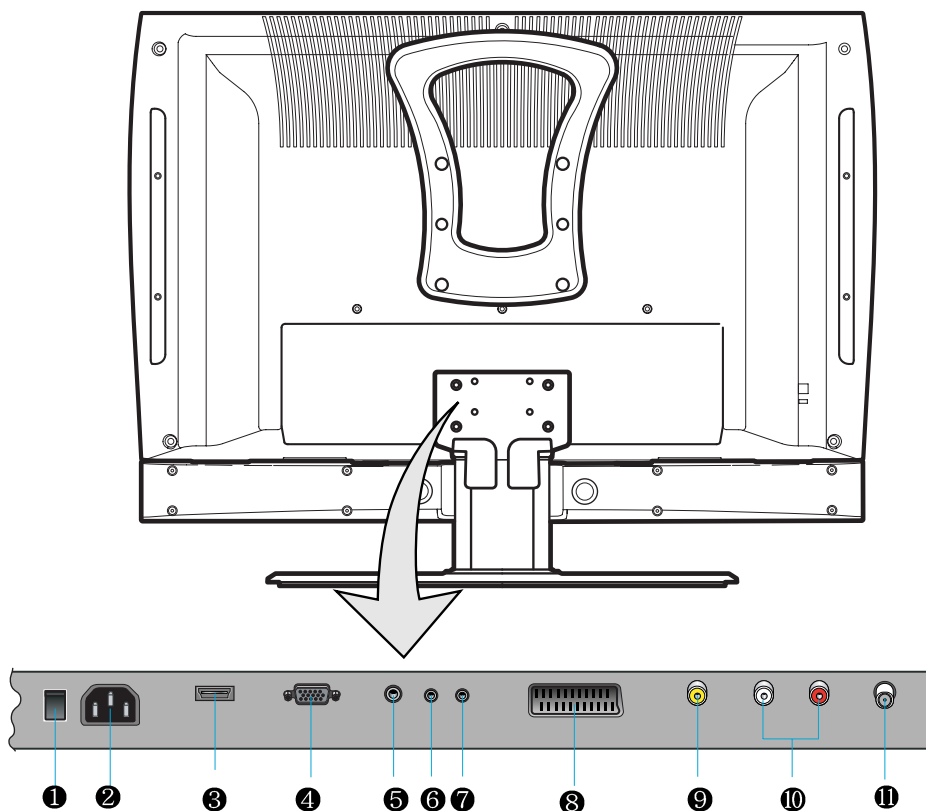
❼ Remote sensor and power LED.

- Point the remote control toward LED.
- It displays standby or operation status.

- Power Indicator Status -

Indicator	Status
Red	Standby
Green	Power on

Rear View - E200D/E230D MODEL



* This product image may be a bit different from the actual product.

❶ Power switch

❷ Power (AC) input terminal

❸ HDMI input terminal

❹ D-SUB input terminal

❺ D-SUB Audio input terminal

❻ Extend an RS-232 input for ATV communication

❼ Extend an RS-232 input for DTV communication

❽ Full Scart input terminal

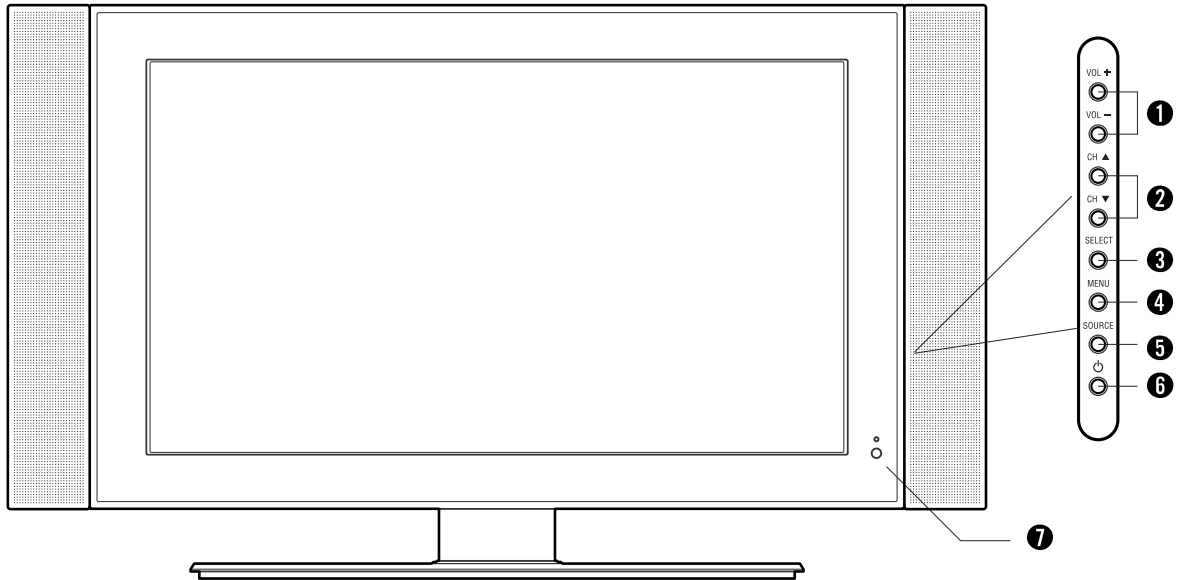
❾ Video (CVBS) input terminal

❿ Composite Audio input terminal

⓫ Antenna input terminal

✓ ❻*❼ - it's for technical service do not use at home.

Front View - E201D/E231D MODEL



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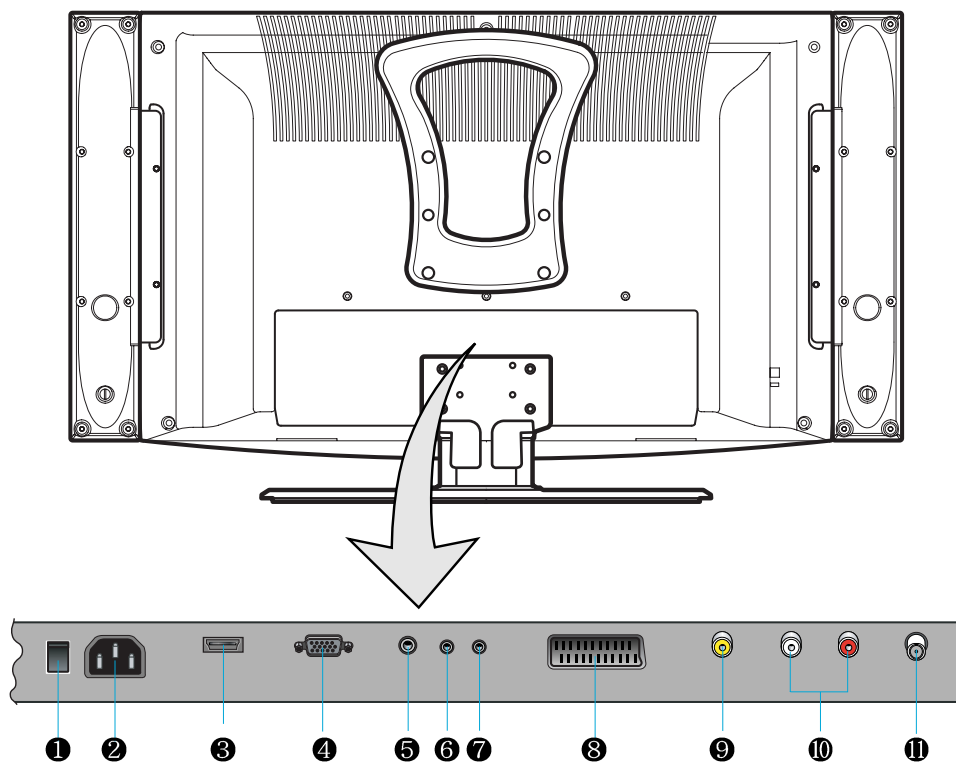
❼ Remote sensor and power LED.

- Point the remote control toward LED.
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Indicator	Status
Red	Standby
Green	Power on

Rear View - E201D/E231D MODEL

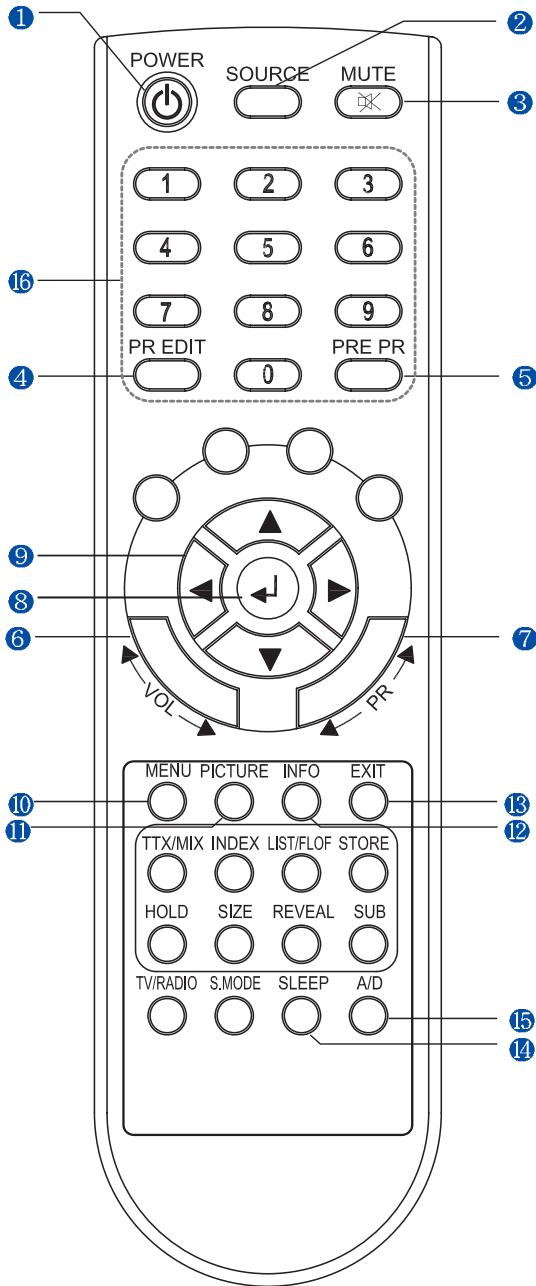


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- ❶ Power switch
 - ❷ Power (AC) input terminal
 - ❸ HDMI input terminal
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 - ❻ Extend an RS-232 input for ATV communication
 - ❼ Extend an RS-232 input for DTV communication
 - ❽ Full Scart input terminal
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 - ❿ Composite Audio input terminal
 - ⓫ Antenna input terminal
- ✓ ❻*❼ - it's for technical service do not use at home.

Remote Control

ENGLISH



1. POWER/STANDBY

2. SOURCE

Use this button to select External Input.

3 MUTE

4 PROGRAM EDIT

5. PREVIOUS PROGRAM

6. VOLUME

7. PROGRAM SELECTION

8. MENU SELECTION

Use this button to select menu items.

9. LEFT/RIGHT MOVE/ADJUST

Use these buttons to move between menu items or adjust each item.

10. MENU

Use this button to call the OSD on the screen.

11. PICTURE MODE

12.INFO

13. EXIT

Use this button to select end the osd.

14. SLEEP

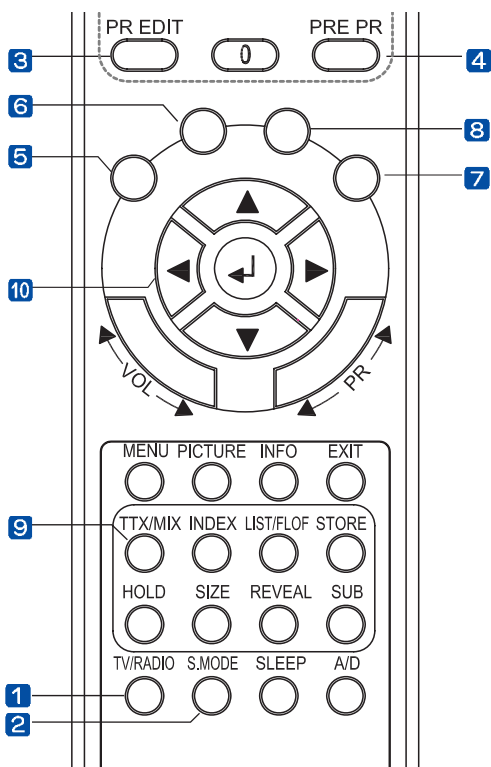
15. A/D TV

Use this button to switch the input source from analog to digital.

16. NUMERIC KEYS

Teletext & Fastext Function

(See pages 29 for more details.)



1. TV-RADIO

To switch between the TV channel and radio channel for Digital TV.

2. S.MODE

To adjust the subtitle and audio condition/status of the current channel for Digital TV

3. WHITE rubber(PR EDIT)

DTV : To add a new channel to the Channel List menu.

ATV : To edit the searched programs.

4. ORANGE rubber

DTV : To see variant channel lists for user's convenience in the Channel List menu.

5. RED rubber

- DTV : To setup favorite channel lists in the Channel List menu.

6. GREEN rubber

- DTV : To lock favorite channel lists in the channel list menu.

7. YELLOW rubber

- DTV : To move favorite channel lists in the channel list menu.

8. BLUE rubber

DTV : To delete a channel from the channel List menu. To show extended program information in the EPG menu.

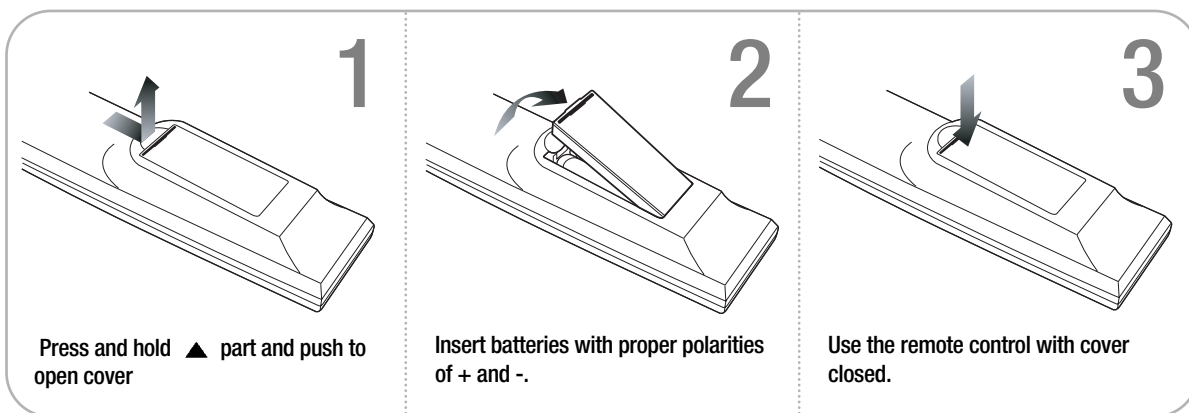
9. TTX/MIX

- To see Teletext Service Data for Analog TV and Digital TV.

- use **10** buttons for TTX page up/down

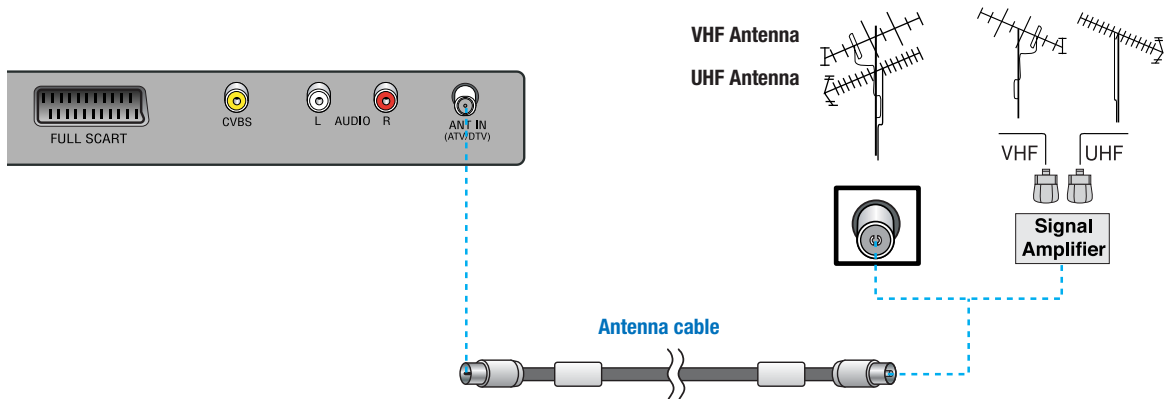
How to Insert Batteries in the Remote Controller

* Battery type :1.5V/AAA



Connecting Indoor/Outdoor TV Antenna(UHF/VHF)

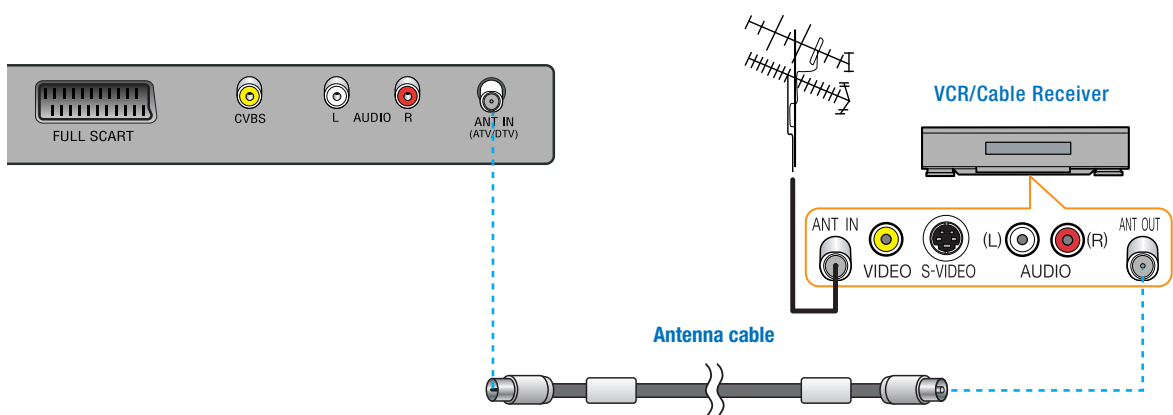
- Antenna or Cable service without cable box connections
- For on optimum picture quality, adjust the direction of antenna if needed.



- ✓ When inserting a 75 Ω ohm coaxial cable into the input connection, ensure the wire tip not to bend.
- ✓ If you experience poor signal reception, we recommend you purchase a signal amplifier for better picture quality.

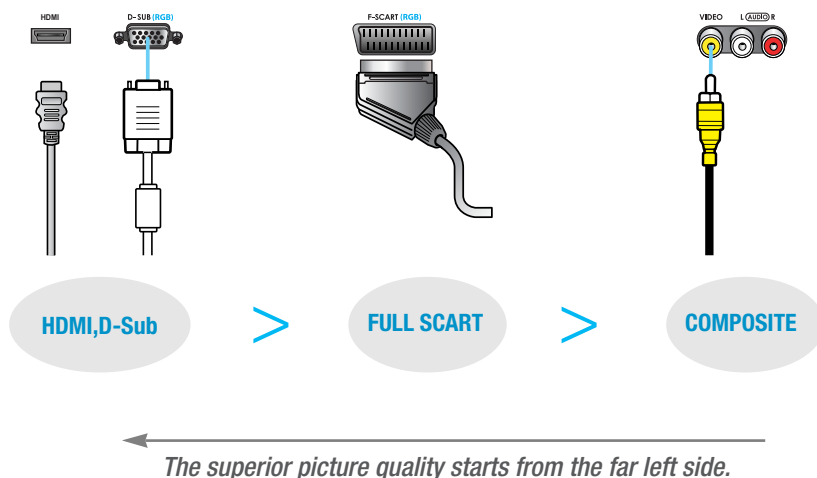
Connecting Antenna Input Connection to External Equipments

- Connect an antenna cable to VCR/Cable/Satellite Receiver with the antenna input.



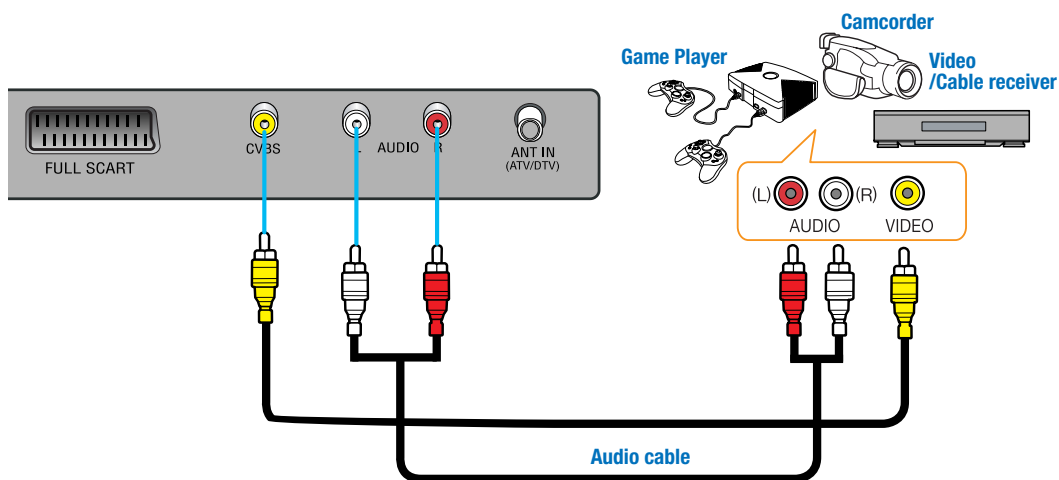
Before Connecting the Video/Audio Connections to External Devices...

Please make sure to read the following instruction to enjoy the best picture quality.
Best picture quality is displayed in the following order.



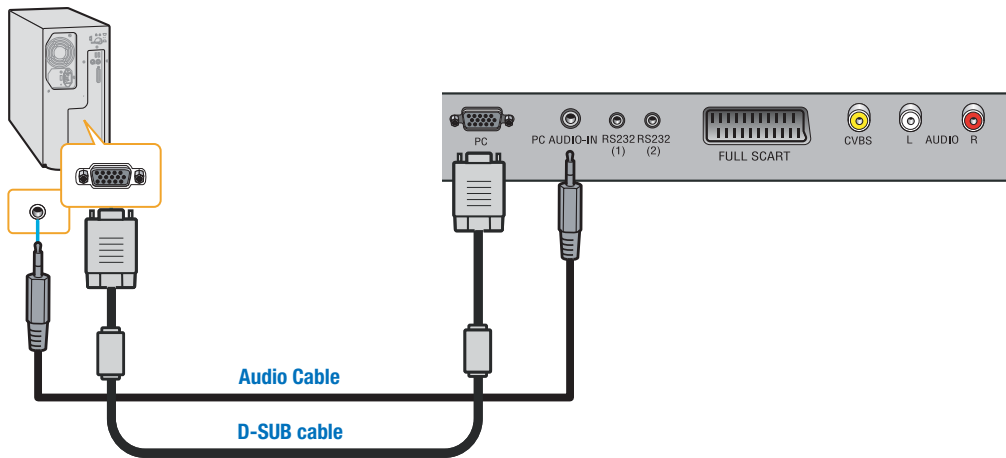
How to Connect a VCR, Cable Receiver, Camcorder, Game Player

1. Connect the Video cable between Video output terminals of VCR or Cable receiver and Video input terminal of TV. (Connect the jacks to terminals in the same color.)
2. Connect the Audio cable (Left: white, Right: red) between Audio output terminals of VCR or cable receiver and Audio input terminal of TV. (Connect the jacks to terminals in the same color.)



How to Connect to a PC

1. Connect the PC signal cable (15-pin D-sub) between the output terminal of PC and the D-sub input terminal of TV.
2. Connect the Audio cable between Audio output terminal of PC and Audio input terminal for PC on the rear of TV.
(Connect the jacks to terminals in the same color.)



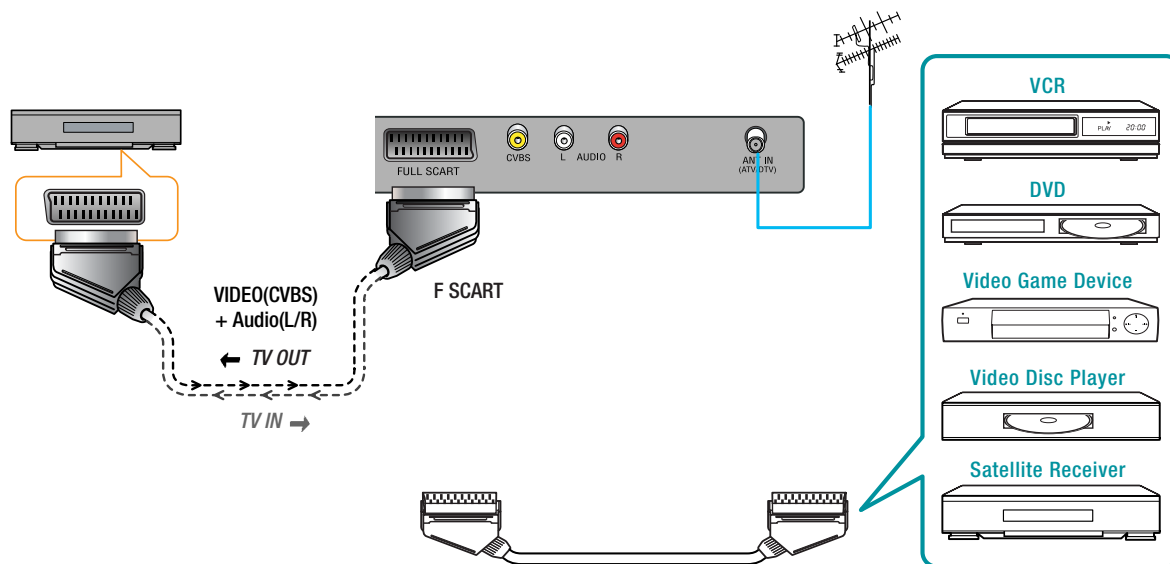
- ✓ If you use HDMI connection, you can enjoy better picture quality.
- ✓ This product supports Plug-and-Play function.
- ✓ We recommend the above method if the DVD player or set top box supports DTV signal with DVI or HDMI cable for better picture quality.
- ✓ If you input an unsupported resolution in PC or DVI/HDMI mode, the screen won't be displayed properly.
- ✓ DTV Timing is not guaranteed on the PC D-Sub mode

Resolutions Supported in PC

Resolution	Horizontal frequency	Vertical frequency
640 X 480 @ 60	31.5	60.0
800 X 600 @ 60	37.9	60.0
1024 X 768 @ 60	48.4	60.0
1280 X 1024 @ 60	36.9	60.0

Scart Connection to the External Input/Output

* "F Scart" sends the TV broadcast signal received through an antenna to a set-top box and receives the descrambled signal back, which allows you to view TV broadcasts in AV Mode.



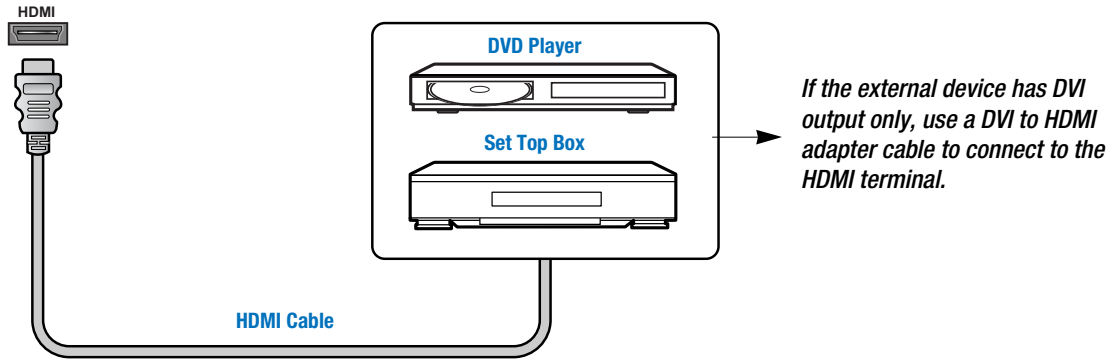
- F Scart Input : RGB, CVBS - F Scart Output : CVBS

✓ When switching voltage comes into the Scart-Pin 8 during viewing a TV program, the current mode will be switched to Scart mode.

HDMI Connection

HDMI*¹ (High Definition Multi media Interface) is the first all digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information.

To the HDMI™ input terminal, you can connect an EIA/CEA-861/861*² compliant consumer electronic device, such as a Set Top Box or DVD player with HDMI or DVI output terminal.



► Compatible VIDEO Signal/PC Timing

	Mode	Resolution	Vertical frequency
VIDEO Signal	1080i	1,920 x 1,080i	50
	576p	720 x 576p	50
		640 x 576p	50
	720p	1280 x 720p	50
PC Timing	640 X 480	640 X 480	60
	800 X 600	800 X 600	60
	1024 X 768	1024 X 768	60
	1280 X 1024	1280 X 1024	60

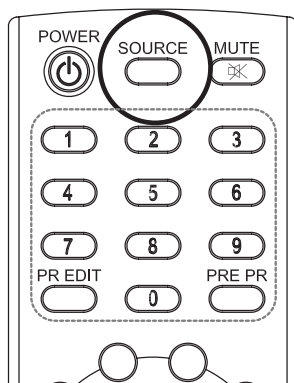
- This input terminal is not intended for use with computers.

► Compatible sampling frequency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32 kHz

↳ Notes :

- This HDMI connector is Type A.
- If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.
- The DIGITAL IN terminal can only be used with 1080i, 720p or 576p picture signals. Set the Digital Set -Top -Box DIGITAL OUT terminal Output setting to 1080i, 720p or 576p. For detailed information, refer to the Digital Set -Top -Box instruction manual. If you cannot display the picture because your Digital Set -Top -Box does not have a DIGITAL OUT terminal Output setting, use the component Video Input (or the S Video Input or Video Input). In this case the picture will be displayed as an analog signal.

How to Select input source



ANALOG TV - Terrestrial broadcasting for supporting analog PAL/SECAM system.

F-SCART - For supporting composite video and RGB video signals. SCART connectors is used with many European video equipments.

CVBS : For supporting the color shade(chrominance) and brightness(luminance) information into one video signal.

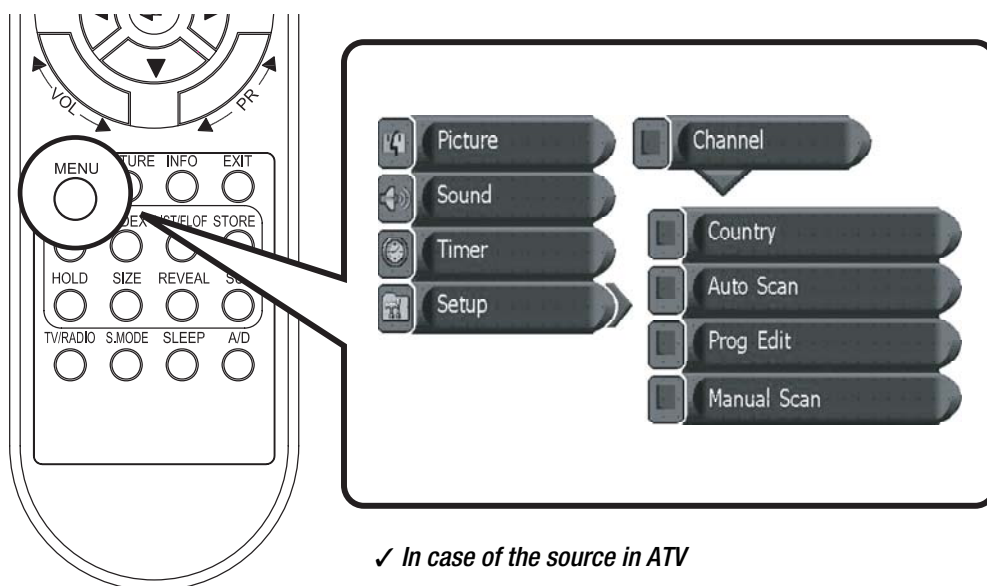
HDMI : High Definition Multi media Interface that supports both video and audio information.

PC : For supporting Personal Computer connection.

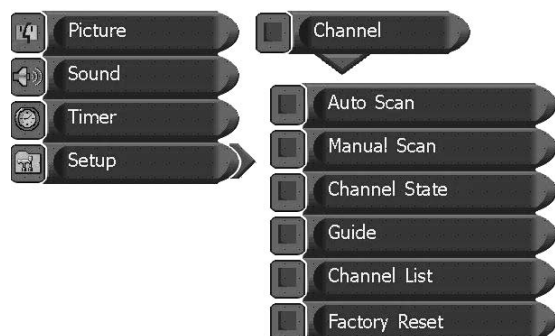
iDTV : Digital Terrestrial broadcasting for supporting DVB-T System.

Different OSD Menu

You can confirm OSD menu of two different types.



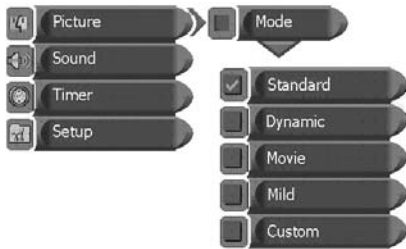
✓ In case of the source in ATV



✓ In case of the source in iDTV

How to Select the Picture Mode

Users can automatically adjust the picture mode according to the input mode.

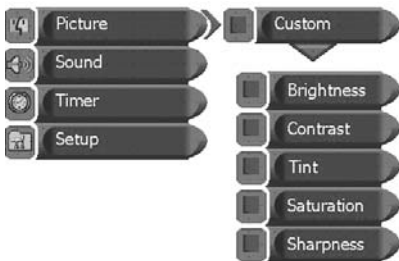


- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press \leftarrow button to select "Picture" Icon.
"PICTURE MODE" is highlighted.
- 3 \leftarrow buttons to select "mode".
- 4 Press \blacktriangle / \blacktriangledown to move.
- 5 Press \blacktriangle / \blacktriangledown or \leftarrow buttons to select, then "V" mark to selected item.
- 6 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

- ◆ CUSTOM : When the user wants to set the values directly.
- ◆ DYNAMIC : Clear display
- ◆ STANDARD : Most video contents are appropriate to this mode.
- ◆ MOVIE : When watching a movie
- ◆ MILD : Soft display.

How to Set the Desired Picture

Users can manually adjust their desired picture

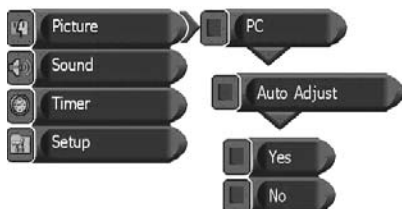


- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press \leftarrow button to select "Picture" Icon.
"MODE" is highlighted.
- 3 Press \blacktriangle / \blacktriangledown buttons to move to "Custom" and press \leftarrow buttons to select "CUSTOM".
- 4 Press menu button to the previous menu
- 5 Press \blacktriangle / \blacktriangledown buttons and press \leftarrow buttons to select "CUSTOM"
- 6 Select required option by pressing the \blacktriangle / \blacktriangledown or button, then Press \blacktriangleleft / \blacktriangleright button to adjust.
- 7 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

- ◆ BRIGHTNESS : Adjust the brightness of the entire picture.
- ◆ CONTRAST : Adjust the brightness and darkness of the object and backgrounds.
- ◆ SATURATION : Adjust colors into deeper or lighter colors.(not operational in pc mode/HDMI)
- ◆ TINT : Adjust colors naturally.(not operational in pc iDTV and HDMI)
- ◆ SHARPNESS : Adjust the clarity of object outlines.(not operational in pc iDTV and component mode)
- ◆ BACKLIGHT : Adjust the brighten or darken of the screen.

✓ In the custom's mode, the users can adjust their desired brightness, contrast, colour, Tint, sharpness and backlight.

How to Set Image Adjust in PC Mode

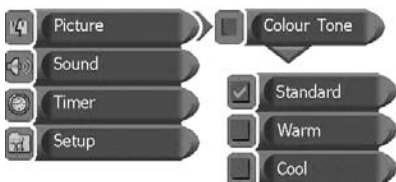


- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press \leftarrow button to select "Picture" and press \blacktriangle / \blacktriangledown buttons move to "PC" select
- 3 Press \leftarrow button to select "PC"
- 4 "PC" menus appear.
- 5 Press \blacktriangle / \blacktriangledown or \leftarrow button to select "Auto Adjust", "Phase", "Position", "Clock", "Auto color"
- 6 Press EXIT button to TV viewing or press NEW button to return to the previous menu

- ◆ Auto ADJUST : Horizontal/vertical positions are automatically adjusted.
- ◆ PHASE : To eliminate the shake of the picture.
- ◆ POSITION : To adjust the position of the picture.
- ◆ CLOCK : To eliminate the shake of picture.
- ◆ AUTO COLOR : Color is automatically adjusted.

How to Select a Color Tone

Users can adjust Color as users want.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press \blacktriangle / \blacktriangledown buttons to move to "COLOR TONE".
- 3 Press \leftarrow button to select "COLOR TONE".
- 4 Press \blacktriangle / \blacktriangledown buttons, to move to desired item.
Press \leftarrow button to select, then "V" mark appears
- 5 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

- ◆ STANDARD : For a general color tone.
- ◆ WARM : For warm colors with reddish tone.
- ◆ COOL : For cool colors with bluish tone.

How to Set the Display Size

Users can adjust the display scale as they want



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SIZE"
- 3 Press ↵ button to select size.
- 4 Press ▲ / ▼ buttons to move to the desired item.
Press ↵ button to select, then "V" mark appears
- 5 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

- ◆ WIDE - General broadcast picture is adjusted to 16:9.
- ◆ NORMAL - 4:3 general picture size
- ◆ AUTO SIZE- Screen size adjust automatically by screen signal

How to Adjust the Desired Audio Mode

Users can adjust sound as they want.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SOUND" icon.
- 3 Press ↵ button to select "SOUND" icon.
"MODE" is highlighted.
- 4 Press ▲ / ▼ buttons to move to volume "Bass, Treble or Balance".
Bass, Treble or Balance menu appears.
- 5 Select required option by pressing ◀ / ▶ buttons to adjust.
- 6 Press EXIT button to TV viewing or press MENU button to return to the previous menu

- ◆ BALANCE : Adjusts the balance of left and right speakers.
- ◆ TREBLE : Adjusts the audio output signal in the high band.
- ◆ BASS : Adjusts the audio output signal in the low range.

Choosing the Your Languages

Using the TV for the first time, users must select their preferred language preference in order to display main menus and sub menus, etc.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SET UP".
- 3 Press ↵ buttons to select "SET UP".
- 4 Press ▲ / ▼ buttons to move to "LANGUAGE".
Press ↵ buttons to select "LANGUAGE".
- 5 Press ▲ / ▼ buttons to move to your preferred language
Press ↵ buttons to select your language
- 6 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

How to Select Auto Scan(Analog TV)

Auto scan enables to search/store channels of countries where the user is located automatically.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SETUP" icon.
- 3 Press ↵ button to select "CHANNEL" icon.
"COUNTRY" is highlighted.
- 4 Press ↵ or ◀/▶ buttons to select "COUNTRY"
Press menu button.
- 5 Press ▲ / ▼ and ↵ buttons to set "YOUR COUNTRY".
- 6 Press ▲ / ▼ buttons to move to "AUTO SCAN", then store the selected channels.
- 7 Press ▲ / ▼ or ↵ buttons to select "AUTO SCAN".
- 8 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

✓ during auto scan

Exit button : not stored and stop

menu button : stored and stop

✓ Before Auto scan, please set "Your country"

How to Select Manual Scan

Manual store enables to searching channels which the user want manually.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ Buttons to move to "SETUP" icon.
- 3 Press ↵ button to select "CHANNEL" Icon.
"COUNTRY" is highlighted.
- 4 Press ▲ / ▼ Buttons to move to "MANUAL SCAN".
- 5 ↵ button to select "MANUAL SCAN".
Manual program menu appears.

Search

- 6 Press ▲ / ▼ buttons to move to "SYSTEM"
press ↵ button.
Press ▲ / ▼ button and ↵ button to select your "SYSTEM"
- 7 Press menu button.
- 8 Press ▲ / ▼ buttons to move to "SEARCH"
press ↵ button, then channel search starts.
menu button : stop
◀ / ▶ button : Adjust

Fine Tune

- If the reception is clear you do not have to fine tune channels.
- If the signal is weak or distred, you may have to fine tune the challe manually

▲ / ▼ : move to "fine tune"
 ↵ : select to "fine tune"
 ▶ / ▶ : Adjust

store

To store the setting, press ▲ / ▼ buttons, move to "store"
and press ↵ button to store and finish.

How to Set the Program Edit(Skip, Swap)

Program edit enables users to edit the searched programs.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ Buttons to move to “SETUP” icon.
- 3 Press ⏏ buttons to select “CHANNEL” Icon.
“COUNTRY” is highlighted.
- 4 Press ▲ / ▼ Buttons to move to “Prog Edit”.
- 5 Press ▲ / ▼ or ⏏ buttons to select ”Prog Edit”
The program table appears on the screen.
- 6 Press ▲ / ▼ or ⏏ buttons to move to channel name, skip, swap from ch swap to ch or swap

Assigning Names to Channel

press ⏏ button to select and press ▲ / ▼ Buttons to set to “NAME”

- a. Select a letter (A~Z),(a~z) a number (0~9) or blank space.
- b. move to left or right by pressing ◀ / ▶ buttons
- c. to store the setting, press the ⏏ buttons once again.

skipping unwanted channel

- a. **press** ⏏ button to select “skip” the “V” mark appears.
- b. If you do not want to skip the channel, **press** ⏏ button once again
“V” mark disappears.

swap the stored channels.

- a. **press** ⏏ button to select “swap from CH” or “swap to CH”
press ▲ / ▼ button to adjust channel NO.
press ⏏ button to select channel NO.
move to swap by pressing ▲ / ▼ buttons
press ⏏ button to perform swap.

How to Set Clock, Sleep Time, ON/OFF Time



- 1 Press Menu button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "TIMER".
- 3 Press ↵ buttons to select "SET TIME".
- 4 Press ◀ / ▶ buttons to move between Hour, Minute and Press ▲ / ▼ buttons to set Hour, Minute.
- 5 Press ↵ buttons to set "ON or OFF Time"

✓ When the power supply(AC main power) is cut off, the clock is reset to the value before the Time set.

To set the "ON or OFF Time"

- 6 Press ▲ / ▼ buttons to move to "ON or OFF TIME".
- 7 Press ↵ buttons to select "ON or OFF TIME".
- 8 Press ◀ / ▶ buttons to move between Hour, Minute and on/off and Press ▲ / ▼ buttons to set Hour, Minute and on/off
- 9 Press ↵ buttons to set "ON or OFF TIME".

go to step 10 if you need to set the "SOURCE"

- 10 Press ▲ / ▼ buttons to move to "SOURCE"
- 11 Press ↵ buttons to select to "SOURCE"
- 12 Press ▲ / ▼ and ↵ buttons to select "WANTED SOURCE"

go to step 14 if yfou need to set the "SLEEP TIMER"

- 13 Press ▲ / ▼ buttons to move to "SLEEP TIMER"
- 14 Press ↵ buttons to select to "SLEEP TIMER"
- 15 Press ▲ / ▼ buttons to select "SLEEP TIMER"
- 16 Press ↵ buttons to set "SLEEP TIMER"

How to Set Teletext in ATV











You can use Teletext service in analog TV mode.
If it is included in you receiving channels.



- 1 Press "TTX/MIX" button and wait.
If the "*" sign pops up left upside of the screen as the following picture, wait until the teletext service menu is displayed "*" means it provides teletext service. So wait a moment.
- 2 Select your interesting item with numeric keys.

Selecting Teletext Display Options in ATV Mode

When users have displayed a teletext page, they can have various options to suit their requirements.

DISPLAY(ACTION)	BUTTON
<ul style="list-style-type: none"> • Hidden Text (Answers to Quiz Games, for Example) • The Normal Screen 	 REVEAL  REVEAL AGAIN
<ul style="list-style-type: none"> • A Second Page • Normal screen 	 SUB PAGE  SUB PAGE AGAIN
<ul style="list-style-type: none"> • Double-Size Letters in the : <ul style="list-style-type: none"> - Upper half of the screen - Lower half of the screen • Normal Screen : 	 SIZE - ONCE - TWICE - THREE TIMES
Stops the automatic page change which will occur if teletext page consists of 2 or more sub pages. The stop symbol is displayed at the top left-hand corner of the screen.	 HOLD  HOLD AGAIN
<ul style="list-style-type: none"> • FLOF → INDEX (Full Level One Facility) • TOP → INFO. (Table of Page) 	 INDEX
<ul style="list-style-type: none"> • To Store Page 	 STORE
<ul style="list-style-type: none"> • Return to List or FLOF mode 	 LIST/FLOF

How to Search Automatically(IDTV)

*This function can be used to get the latest program data while the receiver is still in use.
Through this function, the receiver searches for all the available program and saves them in the memory.*



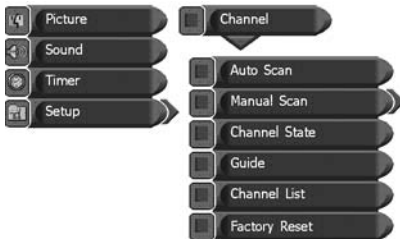
- 1 Press MENU button.
Menu items appear on the screen.
 - 2 Press ▲ / ▼ Buttons to move to “SET UP” icon.
 - 3 Press ⏏ button to select “CHANNEL” Icon.
 - 4 Press ⏏ buttons to select “AUTO SCAN”
Automatic Scan menu appears, then auto scan activates.
While searching, you can see the following menu on the screen.
- When scanning is finished, you can see the following information on the screen. After the scanning process, the first program of the last scanned channel will be displayed on the back screen
- 5 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

✓ Now you have completed all steps needed for watching programs. If you could not see the program after finishing these procedures, please contact your engineer or representative.

✓ If you press the MENU or EXIT button in the middle of AUTO SCAN, the first stored channel will be displayed, and the AUTO SCAN stops.

How to Search Manually

You can edit parameters of certain channels and scan them.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ Buttons to move to “SET UP” icon.
- 3 Press ⏏ button to select “CHANNEL” Icon.
- 4 Press ▲ / ▼ Buttons to move to “MANUAL SCAN”.
- 5 Press ⏏ buttons to select “MANUAL SCAN”
MANUAL Scan menu appears.
- 6 Press ▲ / ▼ buttons to move to “Channel”.
- 7 Press ◀ / ▶ buttons to select a channel or press ⏏ button and choose them directly with using the numeric keys.
- 8 Press ▲ / ▼ buttons to move to “Tx Mode”.
- 9 Press ◀ / ▶ buttons, then mode changes in order below.
→ Auto → 8K → 2K →
- 10 Press ▲ / ▼ buttons to move to “Bandwidth”.



- 11 Press ◀/ ▶ buttons to select “Bandwidth”, and set the proper value for the selected Channel.
- 12 Press Up and Down buttons to move to “Scan”.
- 13 Press ↵ buttons to store all the entered channel data. Then you can get the following menu showing the scanning process. After scanning process, the first channel of scanned channel will be displayed.
- 14 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

✓ If the scan fails, please check whether your entered values are correct or not and the signal reception sensitivity is good or bad.

How to Check Channel State

Users can check parameters of certain channels and scan them.



- 1 Press MENU button. Menu items appear on the screen.
- 2 Press ▲/ ▼ Buttons to move to “SET UP” icon.
- 3 Press ↵ button to select “CHANNEL” Icon.
- 4 Press ▲/ ▼ Buttons to move to “CHANNEL STATE” icon.
- 5 Press ↵ buttons to select “CHANNEL STATE” Tuner State menu appears.
- 6 Press ▲/ ▼ buttons to select the channel you want.
- 7 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

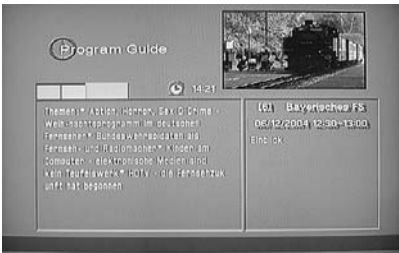
- ◆ Level : Indicating selected network signal strength level.
- ◆ Quality : Indicating signal to noise ratio.

✓ When the channel is selected, you can check the reception status of the signal. If the reception signal status is bad, adjust antenna to get the following result.

- ◆ Tuner : Lock
- ◆ FEC : 1/2, 2/3, 3/4, 5/6 or 7/8
- ◆ Level : over 30%
- ◆ Quality : over 40%

How to Use the Guide (EPG : Electronic Program Guide)

Users can check the channel information on the channels of the transponder they are watching.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ Buttons to move to "SET UP" icon.
- 3 Press ↵ button to select "CHANNEL" Icon.
- 4 Press ▲ / ▼ Buttons to move to "GUIDE".
- 5 Press ↵ buttons to select "GUIDE"
Program Guide menu appears.
- 6 Press ▲ / ▼ buttons to select Channel, you can see the current or next program information of the selected channel.
 - ➔ Press "GREEN" button. The current or next program information would be converted to the next or current program information respectively.
 - ➔ Press "YELLOW" button. You can see the program schedule list of the selected channel.
- 7 If you want to see the program information of a program in the schedule list, Press ▲ / ▼ buttons to select the program. You will see the information in the right window.
 - ➔ Press "BLUE" button. You will see extended information of the selected program.
- 8 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

✓ supported by 7 language : English, French, German, Italian, Spanish, Dutch, Suomi

How to Select Channel List

Users can change the current channel to any other channel they want.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SET UP" icon.
- 3 Press ⏏ button to select "CHANNEL" Icon.
- 4 Press ▲ / ▼ buttons to move to "CHANNEL LIST".
- 5 Press ⏏ buttons to select "CHANNEL LIST"
Channel List menu will appear, detailed information of the selected channel will be displayed in the right section (Name of network, frequency, bandwidth, etc).
- 6 Press ◀ / ▶ (page up/down) or ▲ / ▼ buttons (scroll up/down) buttons to select the channel you want
- 7 Press ⏏ buttons, The selected channel appears on the screen.
- 8 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

How to Set Favorite Channel

Users can store frequently watched channels to quickly access a preferred channel.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ buttons to move to "SET UP" icon.
- 3 Press ⏏ button to select "CHANNEL" Icon.
- 4 Press ▲ / ▼ buttons to move to "CHANNEL LIST".
- 5 Press ⏏ button to select "CHANNEL LIST"
- 6 Press ◀ / ▶ (page up/down) or ▲ / ▼ buttons (scroll up/down) buttons to select the channel you want
➔ Press RED button, then Favorite State menu appears.
- 7 Press ▲ / ▼ buttons to move to favorite state list of 1~5.
➔ Press WHITE button. You can rename them for their convenience.
- 8 Press ⏏ button. You favorite state list will be stored. An apple symbol will occur on the ALL LIST MENU.
- 9 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

How to Use Channel List Mode

Users can see variant channel lists which may enable them to edit and select channels more conveniently.



- 1 Press CH. LIST button.
Channel list appears on the screen.
- 2 Press "ORANGE" button, then you can see "Channel List Mode" window.
- 3 Select required option by pressing the ▲/ ▼ buttons, then Press ◀/ ▶ buttons to select you want.
- 4 Press ↵ buttons.
You will see the following mode.
 - ◆ Favorite Mode : You can see favorite 1 ~ 5 channel list.
 - ◆ Alphabet Mode : You can see the channel alphabetical listed.
 - ABC : If you want to see all channels listed in alphabetic order, select 'ABC'.
 - ETC : If you want to see channels without numeric or alphabetic initials.
 - ◆ Network Mode : You can see the channel list in network style.
- 5 Press EXIT button to TV viewing or press MENU button to return to the previous menu.

How to Lock Channel

This menu enables users to prevent children from viewing programs unsuitable for their age.



- 1 Press CH. LIST button.
Channel list menu appears on the screen.
- 2 Press ▲/ ▼ or ◀/ ▶ buttons to select the channel you want to lock.
- 3 Press "GREEN" button.
Then the selected channel is locked.
- 4 Press MENU, EXIT or ↵ button to finish the process.
- 5 Without entering you password, you cannot watch a locked channel's program.
The original password is programmed to 0-0-0-0. Please refer to 38 page "How to Factory Set" for changing the password.

✓ If you want to cancel the channel lock, go to the channel list and select the channel and press GREEN.

How to Set the Channel Order

Users can organize the number or sequence of the channels.



- 1 Press CH. LIST button.
Channel list menu appears on the screen.
- 2 Press ▲ / ▼ or ◀ / ▶ buttons to select the channel you want to move.
- 3 Press “YELLOW” buttons.
- 4 Press ▲ / ▼ or ◀ / ▶ buttons to move to the position you want to move.
- 5 Press ↵ buttons, the channels will move automatically to the programmed position.
- 6 Press MENU, EXIT or ↵ button to finish the process.

How to Delete Channel

Users can delete channels from the channel list.



- 1 Press CH. LIST button.
Channel list menu appears on the screen.
- 2 Press ▲ / ▼ or ◀ / ▶ buttons to select the channel you want to remove.
- 3 Press BLUE buttons.
Then, you need to confirm the deletion.
If you definitely want to delete, press ↵ buttons. If not, press EXIT.
You can find the deleted list in left window.
- 4 Press MENU, EXIT or ↵ button to finish the process.

How to Add Channel

Users add channels they want.



- 1 Press CH. LIST button.
Channel list menu appears on the screen.
- 2 Press WHITE buttons.
The Add Digital Channel window will appear.
- 3 Select the channels with ◀ / ▶ buttons or numeric keys.
- 4 Select required option by pressing the ▲ / ▼ buttons, then Press numeric keys to enter the proper value.
- 5 Press MENU, EXIT or ↵ button to finish the process.

✓ *The above mentioned VIDEO PID, AUDIO PID, PCR PID are very important for optimal terrestrial signal reception. We recommend you to get professional advices where available. You can't setup "VIDEO PID" for RADIO channels.*

How to Factory Set

The status of the Digital-TV will return to factory default parameters by using this function.



- 1 Press MENU button.
Menu items appear on the screen.
- 2 Press ▲ / ▼ Buttons to move to "SET UP" icon.
- 3 Press ↵ button to select "DTV CHANNEL" Icon.
- 4 Press ▲ / ▼ Buttons to move to "FACTORY SET".
- 5 Press ↵ buttons to select "FACTORY SET"
"Factory Set" is highlighted.
- 6 Press ↵ button to select "Factory Set".
A window will appear, asking you to confirm.
- 7 When the menu asks you to confirm the reset, press ↵ if you want to reset or press EXIT key if you want to void the reset.

✓ *When you forgot your new password, please consult the shop where you bought the TV or the nearest dealer.*
✓ *After choosing Factory Set, reset the power.*

Setting Time offset Saving Time(Summer time)

Users can use this menu when they want to change a TV channel to a Radio channel or vice versa.



- 1 Press ▲/ ▼ buttons to select "Time offset"
- 2 Press ◀/ ▶ buttons to select.
Then it will change "YES" or "NO"

YES : Set for daylight saving function activated. The current time automatically moves on hour ahead.

NO : Set for daylight saving function deactivated. The current time automatically moves on hour behind.

✓ Without current local time setting, this menu cannot be processed.

How to TV/RADIO switching

Users can use this menu when they want to change a TV channel to a Radio channel or vice versa.



- ➔ Press "TV/RADIO" button.



Avoid listening to the radio for a long time, without changing the screen image. It can cause "Image Sticking".

Check "Image Retention Effect (Image Sticking)" at the beginning of the manual.

✓ it will convert to Black screen after 5-10 seconds for remove after image.

How to Subtitle / Audio

Users can adjust the subtitle and audio condition/status of the current channel.



- 1 Press "S.MODE" button.
Subtitle and audio related window will be displayed on the screen.
 - 2 Select required option by pressing the ▲ / ▼ buttons, then Press ◀ / ▶ buttons to select you want.
- If Dig. Output is supported, you can select MPEG Stereo or Dolby Digital/AC3.

✓ These subtitle and audio parameters are workable only when the receiving channel supports these functions

How to Select Channel / Information

Brief information is displayed, such as current channel type, name, local start/end time, guide information, current time, fav/normal mode, Audio mode and Audio ID.



- ➔ Press "INFO" button.
The information bar will pop-up.

✓ If you have no information : Check if your local time settings are correct or information is not sent by the channel provider.

How to Set Teletext in DTV

You can use Teletext service in iDTV mode.

The  icon on the screen means your TV is receiving Teletext service.



- 1 Press "TTX/MIX" button and wait.
If the "*" sign pops up left upside of the screen as the following picture, wait until the teletext service menu is displayed "*" means it provides teletext service. So wait a moment.
- 2 Select your interesting item with numeric keys.

Troubleshooting

Symptom Possible solution

How can I install an antenna?

Refer to page 13.

TV screen is not clear after installing an indoors antenna.

Indoors antenna may experience poor reception due to surrounding buildings. Please install an outdoors antenna or wireless antenna.

How can I view cable broadcasting?

Please install a cable broadcasting receiver (Converter).

Symptom Possible solution

Neither picture nor sound comes up.

Check whether power is on.
Check whether the power is cut or whether the power cord is properly connected.
Try to plug another product's power cord to the same outlet to check the outlet itself.

Picture turns on slowly after power is on.

This symptom is not a malfunction. This delay is designed to prevent the distorted and noisy picture when the power is on. However, if the picture does not appear more than 5 minutes after the power is on, call a service center.

Picture is distorted or frozen while watching digital broadcasting.

This symptom may be caused by weak reception. Contact your local station or cable company.

Input Source information only appears on black screen.

Check whether your TV is properly connected to external devices.

Poor reception on some channels.

Check whether you selected proper channels. Try re-orienting your antenna.

Black and white on some channels.

Check other channels for black and white screen. Adjust colour.

TV won't turn on.

Ensure the power cord is plugged.

Screen is too bright or too dark.

Adjust brightness.

Auto On does not work.

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

After setting the time, I turned TV off and turn it on. The programmed information has been erased.

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

Symptom **Possible solution**

Too much noise occurs.

Check whether the audio setting is in the Stereo mode. In the Stereo mode, the sound may be distorted in areas with poor reception or located far away from a TV broadcasting station.

No sound while viewing a cable channel

Make sure audio or audio/video components are securely inserted into the appropriate jacks. Check other channels for sound. Check the volume settings on the cable broadcasting receiver.

Picture is OK but sound does not come out.

Try to press volume up/volume down buttons of your remote control.

One of the speakers does not produce sound.

Select sound balance and make proper adjustment. (Page 21)
Check the speaker connection cables.

Symptom **Possible solution**

Remote control won't work.

Check whether there is a blocking object between the remote control and LCD. Make sure your LCD is Power On. (Normally, the LED on the front panel is red.) Check whether batteries are inserted with proper polarities(+, -). When the batteries are worn out, replace them.

Strange noises are heard.

Ticking noises during or after watching are caused by the change of ambient environment such as humidity and temperature, which is characterized by plastic products. Strange ticking noises occur because a signal is suddenly transmitted to the LCD panel. So, It is not a malfunction.

I tried to use the TV screen as a PC monitor but it doesn't work.

Adjust the resolution referring to the standard signal mode table. Check the specification of your video card installed in your PC. If your video card does not work in the supported hardware, try upgrading the video card's driver.

Product Specifications

Model		E200D	E230D
Input	Full-Scart	1 (A/V)	1 (A/V)
	Video (RCA)	1 (Audio included)	1 (Audio included)
	Antenna	1 (Analog TV/IDTV)	1 (Analog TV/IDTV)
	PC Connection jack	D-SUB	D-SUB
	Max. resolution	1280 X 1024 @ 60Hz	1280 X 1024 @ 60Hz
	Audio	L/R	L/R
	HDMI	1	1
TV/Video	Color system	PAL/SECAM L	PAL/SECAM L
	Sound system	MONO	MONO
	Video system	Composite, PC, HDMI	Composite, PC, HDMI
		Full Scart	Full Scart
Power	Supply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
	Consumption power	Typical 75W	Typical 92W
	Stand-by power	Typical 3W	Typical 3W
Dimension (W x D x H mm - Stand included)		542 x 194 x 453	597 x 194 x 470
Weigh (Stand included)		9 Kg	9.7 Kg
Control type		Remote control, Key control	Remote control, Key control

- The above specifications may be subject to change without prior notice.

Model		E201D	E231D
Input	Full-Scart	1 (A/V)	1 (A/V)
	Video (RCA)	1 (Audio included)	1 (Audio included)
	Antenna	1 (Analog TV/IDTV)	1 (Analog TV/IDTV)
	PC Connection jack	D-SUB	D-SUB
	Max. resolution	1280 X 1024 @ 60Hz	1280 X 1024 @ 60Hz
	Audio	L/R	L/R
	HDMI	1	1
TV/Video	Color system	PAL/SECAM L	PAL/SECAM L
	Sound system	MONO	MONO
	Video system	Composite, PC, HDMI Full Scart	Composite, PC, HDMI Full Scart
Power	Supply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
	Consumption power	Typical 75W	Typical 92W
	Stand-by power	Typical 3W	Typical 3W
Dimension (W x D x H mm - Stand included)		662 x 194 x 403	727 x 194 x 420
Weigh (Stand included)		9 Kg	9.7 Kg
Control type		Remote control, Key control	Remote control, Key control

- The above specifications may be subject to change without prior notice.

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