

User's Guide

Digital TV

MODELS : Q261 | Q321 | Q320
Q401 | Q400 | Q421S
Q421H | Q501

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

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

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

This equipment generates, uses, and can radiate radio frequency energy and, if Not installed and used in accordance with the instructions, may cause harmful Interference to radio communications.

However, there is no guarantee that interference will not occur in a particular Installation.

If this equipment does cause harmful interference to radio or television reception, Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.
Connecting of peripherals requires the use of grounded shielded signal cables.

Table of Contents

General Information

Important Tip/Image Sticking Precaution	1
Safety Precaution	2
Contents of the Package	6
Products Sold Separately	6
How to Mount and Detach The Speakers (26"/32" LCD TV) ...	7
How to adjust the view angle (26"/32" LCD TV)	8
Kensington Lock Anti-theft Device (26"/32"/40" LCD TV).....	8
How To Install Desktop Stand (42"/50" PDP TV)	9
How To Use Speakers (42"/50" PDP TV)	10
Parts Names and Functions (26"/32" LCD TV)	12
Parts Names and Functions (40" LCD TV)	14
Parts Names and Functions (42"/50" PDP TV)	16
Remote Control	18

Connections

Connecting Indoor/Outdoor TV Antenna(UHF/VHF)	20
Connecting Antenna Input Connection to External Equipments	20
Before Connecting the Video/Audio Connections to External Devices... ..	21
How to Connect a DTV Receiver or DVD Player	21
How to Connect a VCR, Cable Receiver, Camcorder, Game Player	22
How to Connect to a PC	22
Scart Connection to the External Input/Output	23
HDMI Connection (For HDMI model only)	24
How to Set the OSD Screen	25

Picture Setup

How to Select the Picture Mode	26
How to Set the Desired Picture	26
How to Set the Desired Picture in PC, DVI, HDMI Input Modes	27
How to Select a Color Temperature	27
How to Set the Display Scale	28
How to Set Noise Reduction	28
How to Set Film Mode	29
How to Set Image Adjust in PC Mode	29

Sound Setup

How to Select the Audio Mode	30
How to Adjust the Desired Audio Mode	30
How to Select AVL	31

How to Select S. Mode	31
How to Select TruSurround XT	32
How to Set the Output of Subwoofer	32
How to Select Earphone	33

Channel Setup

Automatic Program Searching	34
Manual Program Searching	34
How to Set the Program Edit	35
Using the LNA(Low-Noise-Amplifier) Feature	36

Function Setup

How to Set PIP/TWIN	36
How to Set Key-Lock	37
Using the Pixel Shift / Full White (Only for the PDP model) ...	38
Choosing the Your Languages	39
How to Set Teletext in ATV	39
Selecting Teletext Display Options in ATV Mode	40
How to Set Clock, Sleep Time, ON/OFF Time	41

DTV Setup

How to Search Automatically	42
How to Search Manually	42
How to Check Tuner State	43
How to Use the Guide (EPG : Electronic Program Guide)	44
How to Select Channel List	45
How to Set Favorite Channel	45
How to Use Channel List Mode	46
How to Lock Channel	46
How to Set the Channel Order	47
How to Delete Channel	47
How to Add Channel	48
How to Factory Set	48
How to TV/RADIO switching	49
How to Subtitle / Audio	49
How to Select Channel / Information	50
How to Set Teletext in DTV	50

How to Use Memory Mode

Appendix

How to Use an External Device Using the Remote Control ...	59
Troubleshooting	61
Product Specifications	63

Important Tip

Image Retention Effect (Image Sticking)

1. Cause :

- Image Retention Effect may come from displaying a still picture in a certain period of time with at a certain area continuously, as feature of Panel. This is caused due to brightness degradation. Many Panel manufacturers are trying to overcome this limitation.

2. Prevention

- To avoid this matter, use the product after reducing brightness and contrast, especially when a still image is displayed for a long time.
Once an image retention occurs, use the mode that displays motion. It will reduce this matter.
- Use the fuction, Pixel Shift in still image, in our PDP products. (For more details, see the below page 38)

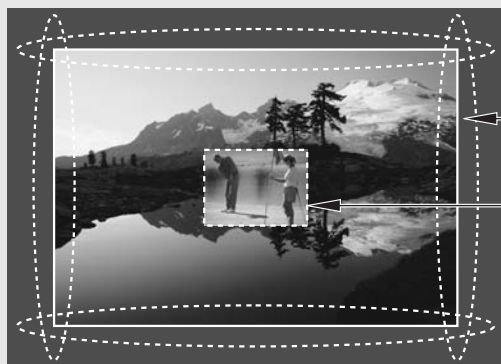
3. Solution

- The temporary image sticking would decrease with displaying Full-White pattern during 10 hours.
- * The permanent image sticking could not take off under the latest technology.
This method may be used to eliminate a temporary retained image that occurs after displaying a still image in a certain period of time. Since it may take several minutes to several hours to remove image sticking, it is recommendable to display motion pictures during 2~3 minutes every hour when keeping displaying a still image. As image sticking is influenced by the brightness of a still image being displayed and its display time, it is recommended to reduce the brightness of the screen.

* Image Sticking does not come under the warranty.

Image Sticking Precaution

When watching a still Image within motion pictures and Wide/Zoom1/Zoom2 /14:9/4:3 screen



Wide, Zoom1, Zoom2, 14:9, 4:3
screen

Box still image

1. Note :

- When the central area of the screen and the screen edges are fixed, the different brightness level of the edges may cause image retentions on the edges when watching for a long time
- This phenomenon happens also to products from other manufacturers. Please avoid to watch a still image for a long time.
- If you watch a still image for a long time, this may damage your TV.

* This matter does not come under the warranty.

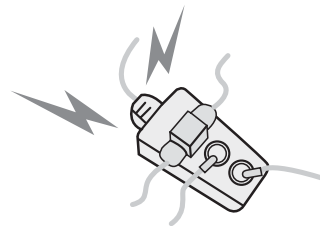
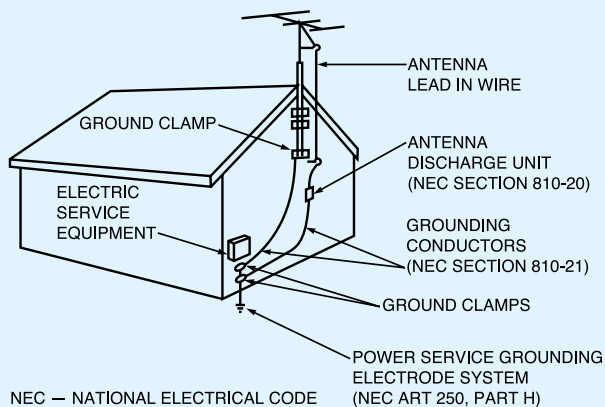
Safety Precaution

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

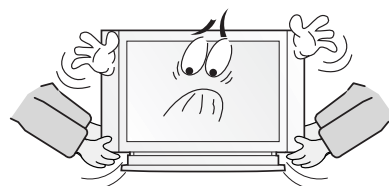
If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding 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.

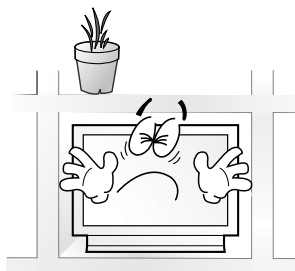
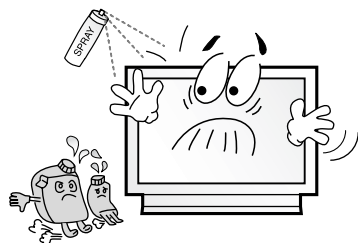


Make sure to remove the speakers before moving the TV with speakers mounted on it.

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

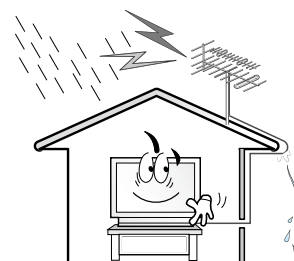
Do not use or store a flammable spray or inflammable things near the TV.

- 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.

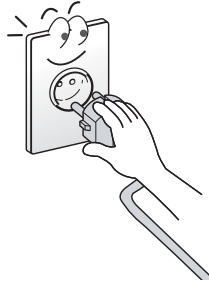
- If raindrop gets into the TV, it may cause a fire or an electric shock.

Safety PrecautionContinued from previous page

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

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.

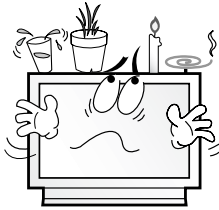
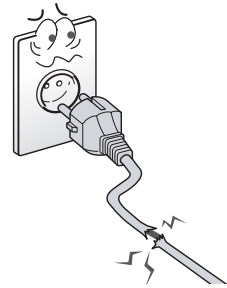


Firmly plug in the power cord so that it does not pull out.

- 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.

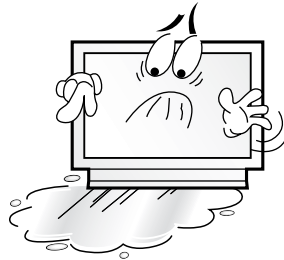


Do not put a water bowl, vase, candle, bug repellent, smoke, cigarette, plants, or heavy thing on the TV.

- 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.

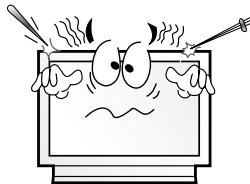
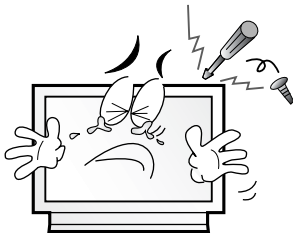


Do not install on an unstable place or small support.

- 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.

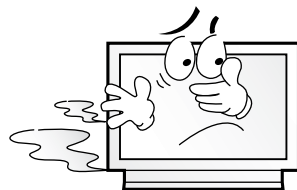


Do not put a metallic object like chopstick, wire, or puncher or inflammables like paper or a match in a vent, headphone jack, or AV jacks of the TV.

- Electric shock or fire may be caused.

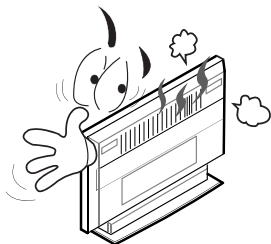
When the TV produces abnormal noise, burning smell, or smoke, unplug the TV immediately and call a service center.

- Electric shock or fire may be caused.



In connection with the selling of batteries or rechargeable batteries or with the supply of devices which contain batteries or rechargeable batteries, we are required, according to the recycling regulations, to inform you the procedures.

Batteries may not be binned to the household waste. You are legally required, as final consumer, to return used batteries or rechargeable batteries. You can return used batteries or used rechargeable batteries free of charge to retailers or in your proximity (as local collecting points or in the trade). You may also send them back to us by mail. Batteries or rechargeable batteries, which contain pollutants, are marked by the symbol of a crossed waste bin. Beside the waste bin symbol are the chemical designations for pollutants; Cd stands for cadmium, Pb for lead and Hg for mercury.



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.

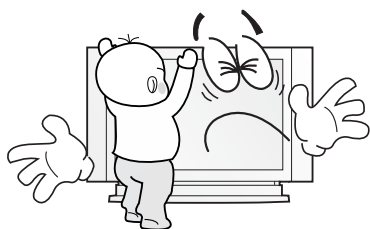
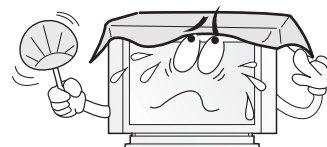


Do not place any heat sources such as radiators and heat registers, etc. near the TV.

- 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.

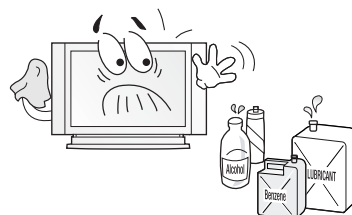
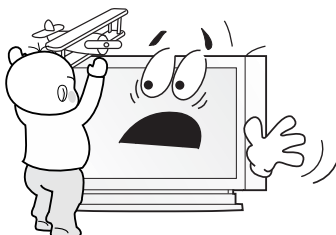


Do not allow children to climb or play on the TV.

- 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.

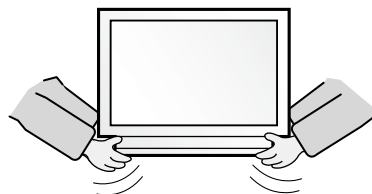
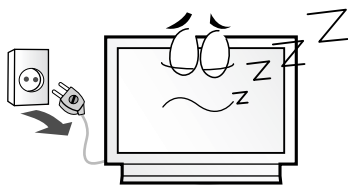


When cleaning the TV, make sure to disconnect the power plug and use a dry, soft cloth for a cleanup.

- 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.

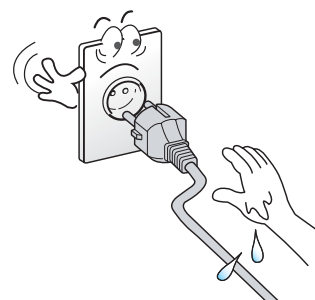


When moving the TV, two or more people are advised to carry it.

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

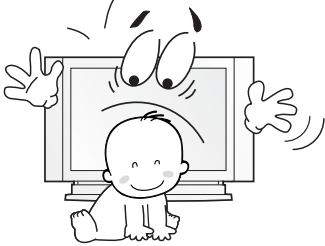
Never touch the power plug or outlet with wet hands.

- This may cause electric shock.



Safety PrecautionContinued from previous page

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

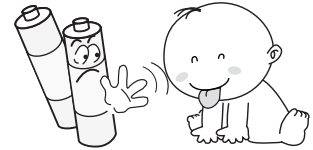
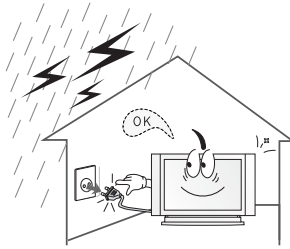


Do not install the product on the floor.

- 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.

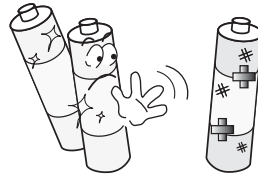
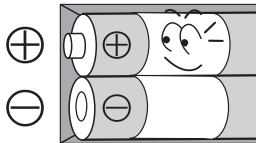


Keep the remote control batteries out of sight and out reach of children.

- If your child swallows a battery, see your doctor immediately.

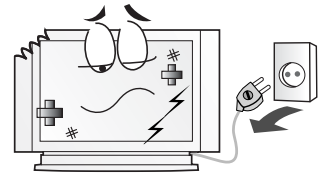
When replacing batteries, make sure to match the batteries to the (+) and (-) marks in the battery compartment.

- Mismatching of polarities may result in internal damage to batteries, fire due to leakage or contamination.



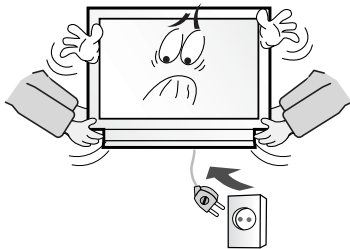
Always use the standard batteries and avoid using old batteries together with new ones.

- Otherwise it may result in internal damage to batteries, fire due to leakage or contamination.



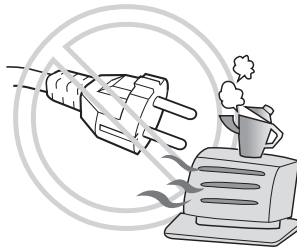
In the event of damaging or dropping the product, switch off the power and remove the plug.

- 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.

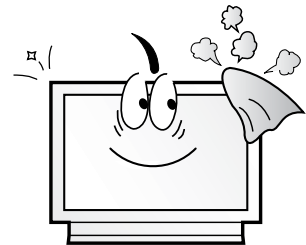


Ensure the power cord doesn't trail across any hot objects like a heater.

- This may cause a fire or an electric shock.

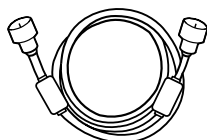
Consult a service center or customer service for inside cleaning about once a year.

- When dust is piled inside the TV for a long time, fire or malfunction may be caused.

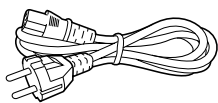


Contents of the Package

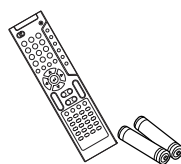
When opening the package, please ensure to check the following accessories.



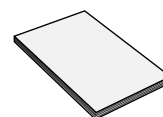
Antenna Cable
(coaxial cable)



Power Cord



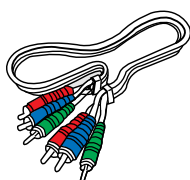
Remote Control &
2 batteries (1.5V AAA)



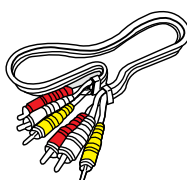
User's Guide

Products Sold Separately

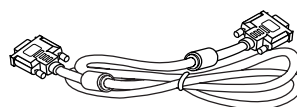
If you want to purchase the following accessories, consult a service center, electronics shops, or parts seller.



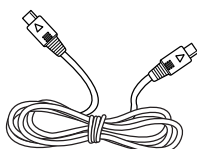
Component(Y, Pb, Pr) cable



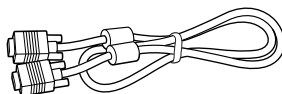
Composite(Video & Audio) cable



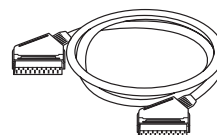
DVI PC video(digital) cable



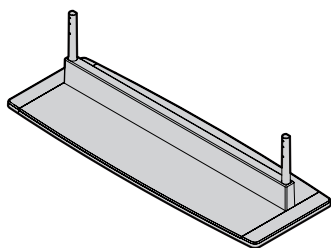
S-video cable



PC signal cable



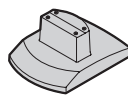
Scart cable



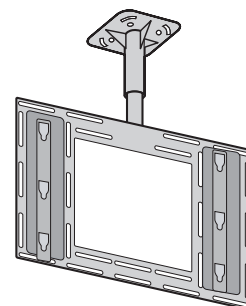
Desk type stand



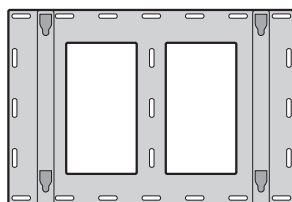
Desk type speaker



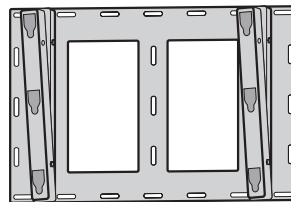
Desk type speaker
stand



Ceil mounting frame



Wall mounting frame



Adjustable wall mounting frame

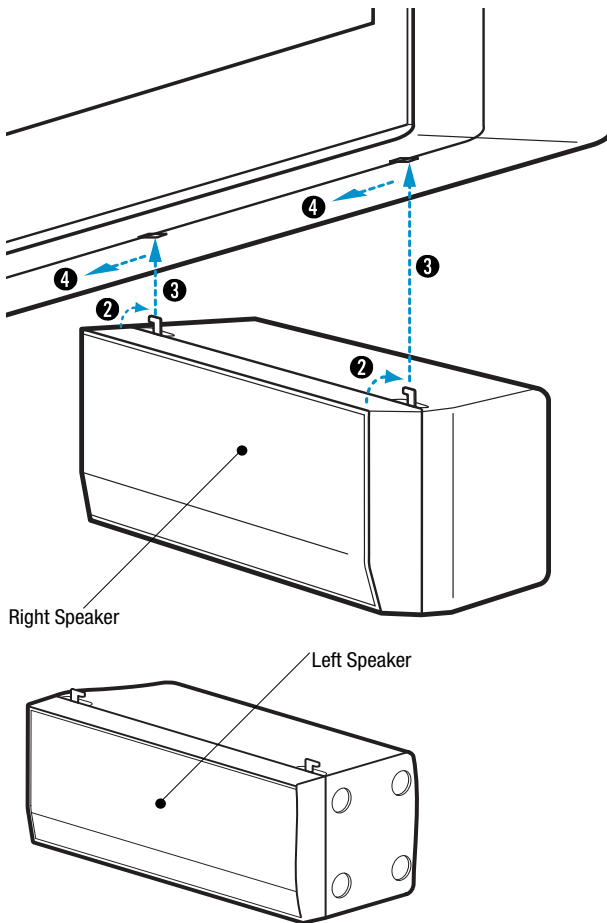
How to Mount and Detach The Speakers - 26"/32" LCD TV

You can attach the speakers to the base of the unit or use them separately.

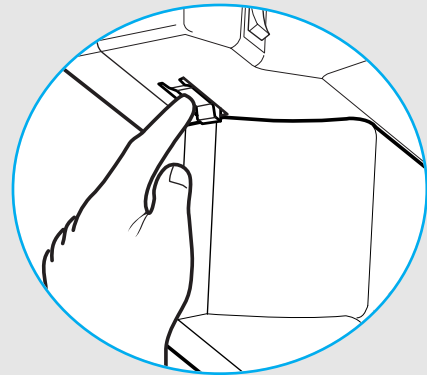
How to mount the speakers onto the base of the unit

1. Tilt the unit backward until its base faces yourself (See next page "How to Adjust the View Angle").
2. Prepare your right speaker first. Remove the tube of the hooks and verify that the hooks are placed in the upright position.
3. Align the right speaker hooks with the cavity holes marked with "SPEAKER" under the base.
4. Slide the right speaker inward till the tension hooks are securely locked as shown in Figure below.
5. Repeat step 2~4 for the left speaker.

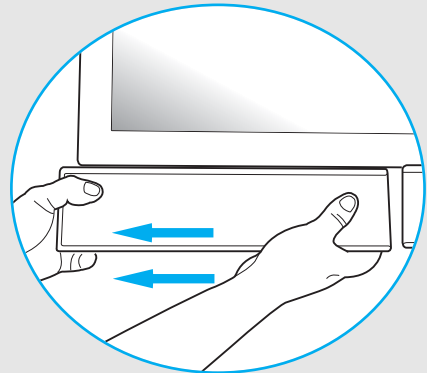
※ The right and left speakers are labeled R (Right) and L (Left) on their rear.



When detaching the speakers



▲ 32" - Press the tension hook and remove the speakers in reverse order.



▲ 26" - Remove the speakers in reverse order.



WARNING

The provided speakers are designed for this product only. It is recommended not to connect the speakers to other devices. When connecting an other amplifier, the amplifier output should be within 10W. Output which exceeds 10 W may cause fire.

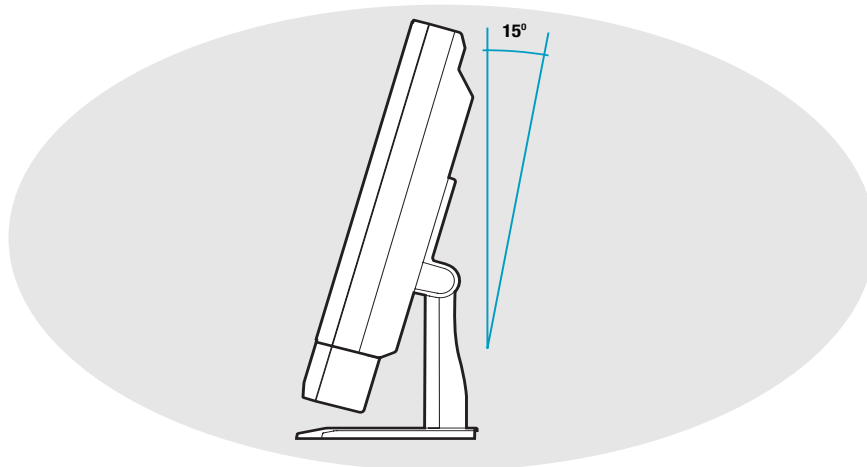


ALERT

Make sure to remove the speakers before moving the TV. When the speakers are detached from the unit while carrying it, this may cause damage to the unit or personal injury.

How to adjust the view angle - 26"/32" LCD TV

You can adjust the panel downward or upward at a 0~15 degree angle.

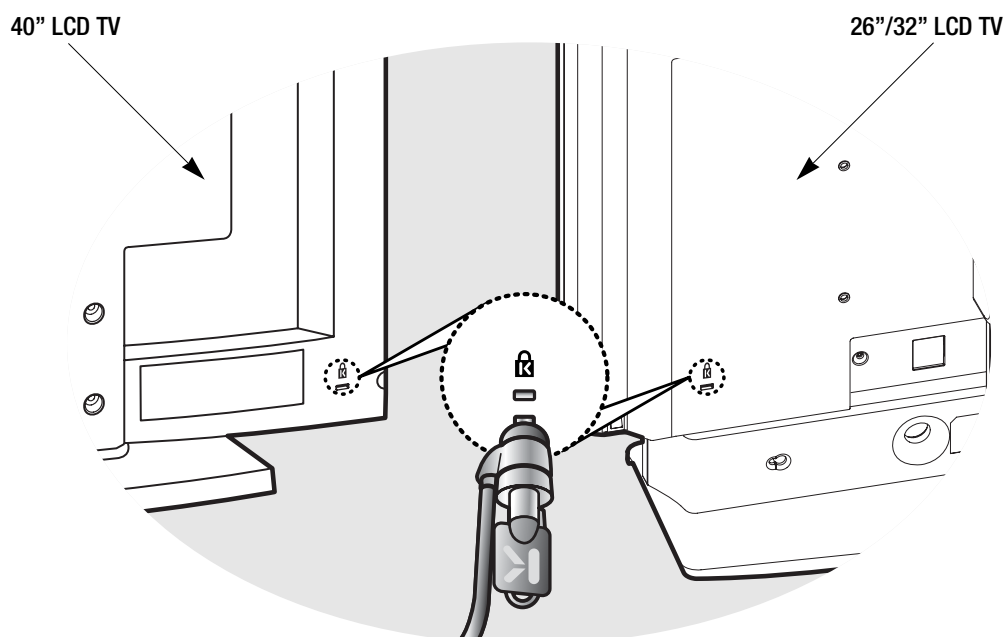


Kensington Lock Anti-theft Device - 26"/32"/40" LCD TV

- This display unit supports Kensington standard security lock to prevent theft.
- You should purchase the Kensington lock device personally, if you need. The security lock is available at an electronics shop.
- For more information, please refer to the following contact information..

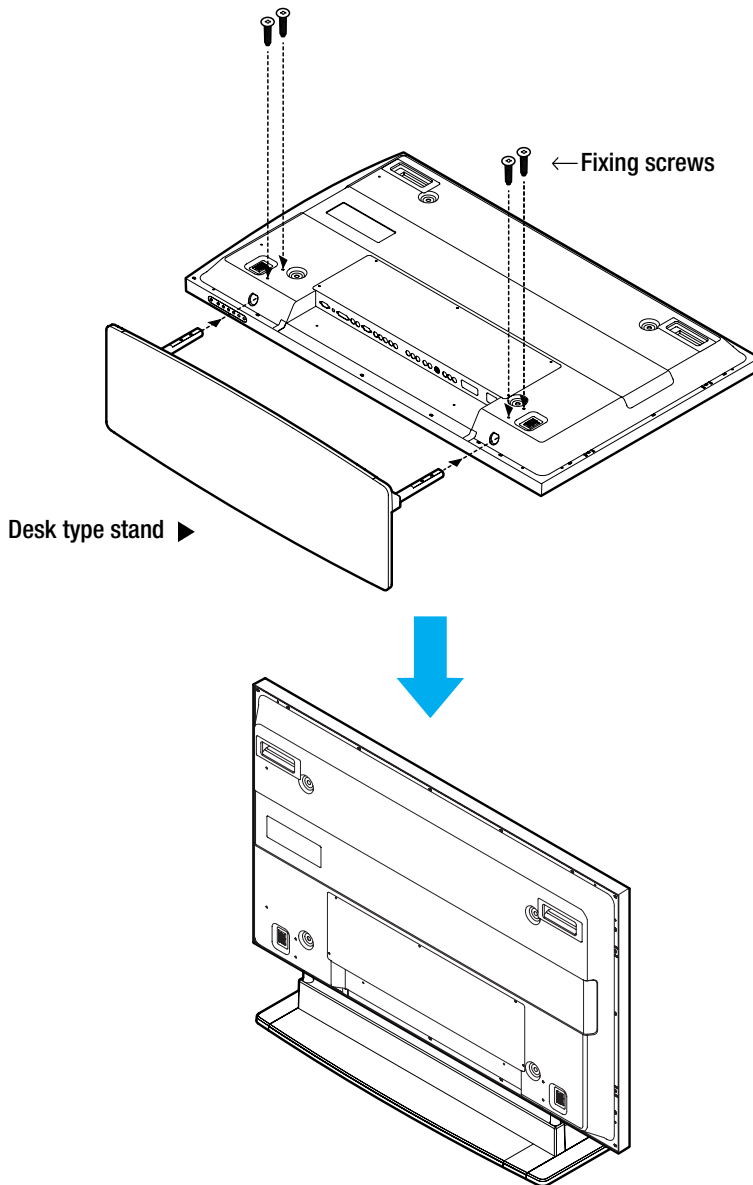
* Kensington Technology Group

- Address : 2000 Alameda de las Pulgas 2F san mateo, California 94403-1289
- Tel : +1 650 572 2700 • Fax : +1 650 572 9675 • Web-site : www.kensington.com



How To Install Desktop Stand - 42"/50" PDP TV

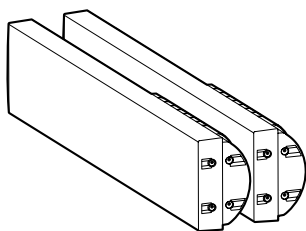
1. Place the TV body on a flat desk or a shelf. Clean the surface of the desk or the shelf in order to prevent scratch on the product.
2. Align the stand with TV body below and fasten the stand bars using 4 fixing screws.
3. After the assembly is over, stand the assembled product at a desired place.



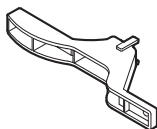
Warning : Do not install at an unstable place or on a small support.
(When a child plays around the product and touch it, TV may fall and injure the child.)

How To Use Speakers (Standing Type) - 42"/50" PDP TV

Parts configuration chart



2 Speakers (left and right)



4 brackets



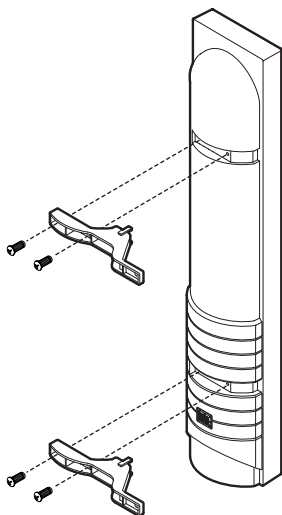
16 fixing screws

2 sets of speaker cables
(left and right)

Assembly and Connection Method

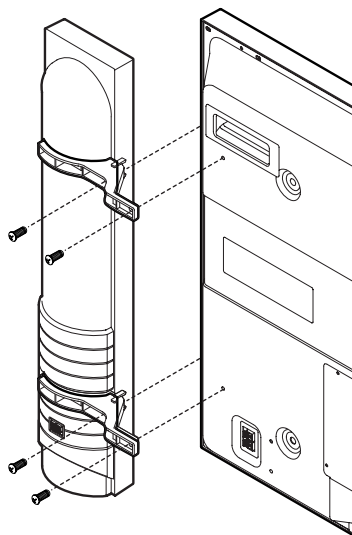
1

Insert brackets into the grooves on the rear of speakers and fasten them with fixing screws. (Left and right side each)



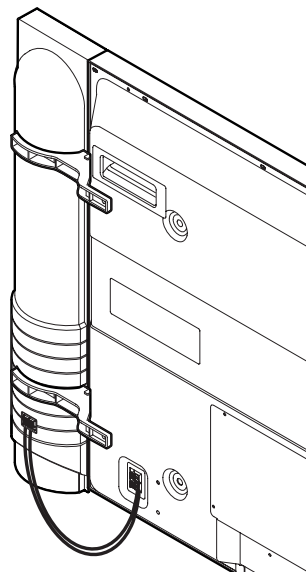
2

Fasten ① with TV body using fixing screws. (Left and right side each)



3

Connect speaker cables between terminals on the rear of speakers with speaker connection terminals on the rear of TV. (Connect cables and terminals in the same color)

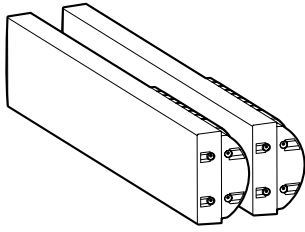


WARNING

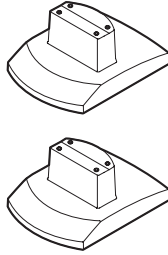
Do not move the product holding the speakers. Always use handles on the TV. (Brackets connecting TV and speakers may be damaged.)

How To Use Speakers (Desk Type) - 42"/50" PDP TV

Parts configuration chart



2 Speakers (left and right)



2 Speaker-stands
(left and right)



8 fixing screws

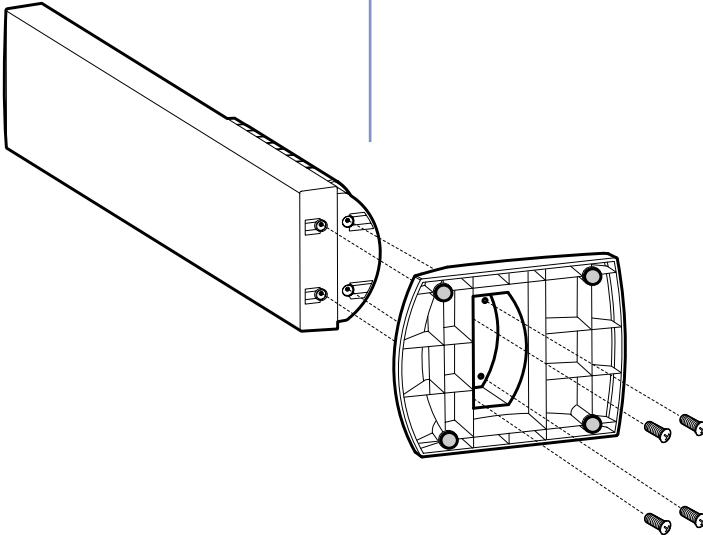


2 sets of speaker cables
(left and right)

Assembly and Connect method

1

Insert speaker-stands in the groove on the bottom of speakers and fasten them using fixing screws. (Left and right side each)

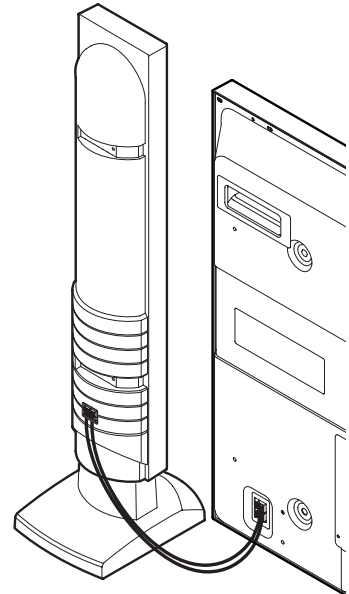


2

Upright 1 and place them on the desired place left and right of TV. (Left and right side each)

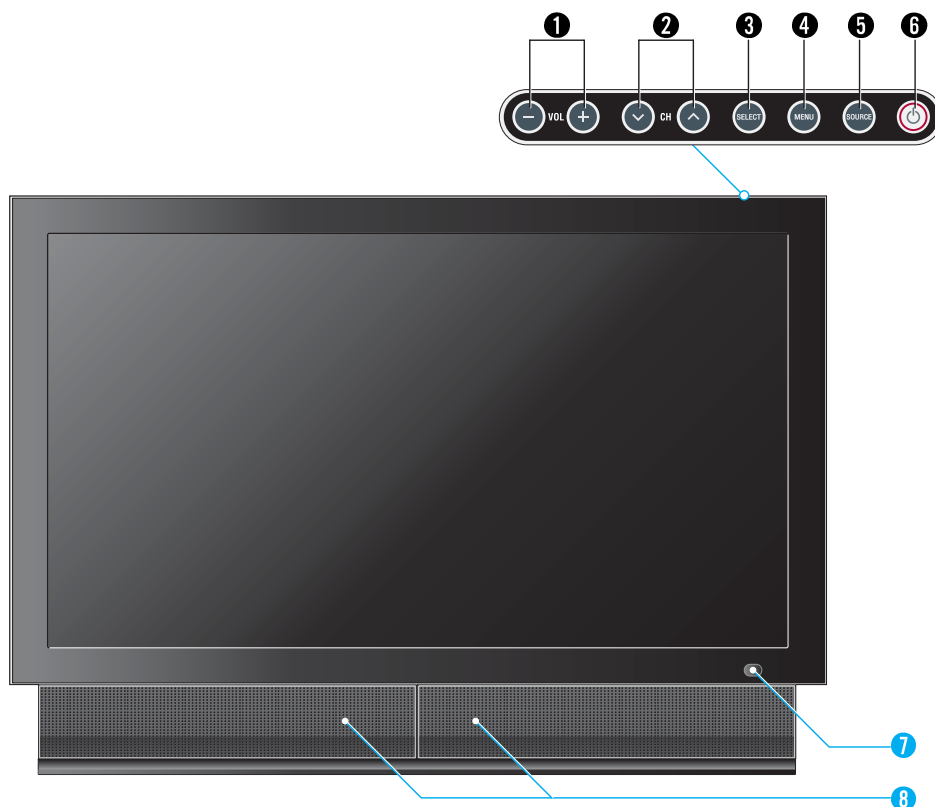
3

Connect speaker cables between terminals on the rear of speakers and speaker connection terminals on the rear of TV. (Connect cables and terminals with the same color)



Parts Names and Functions - 26"/32" LCD TV

Front View



* 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.

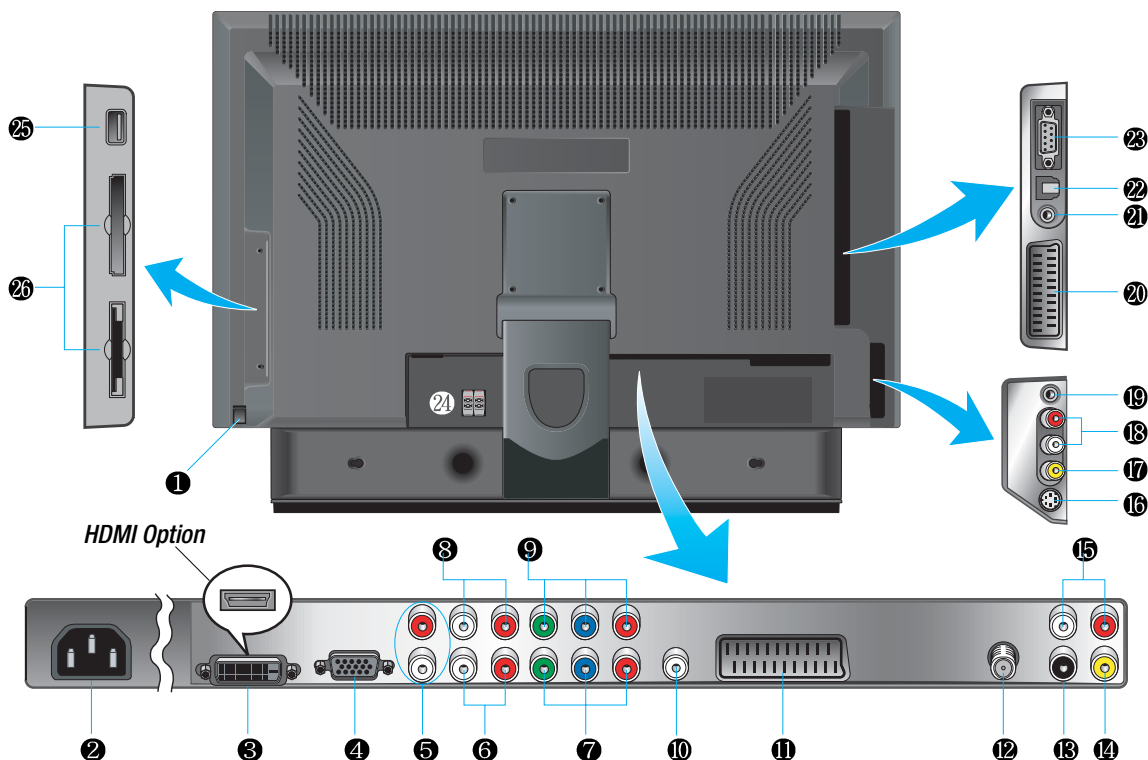
- Power Indicator Status -

Indicator	Status
Red	Standby
Green	Power on

❽ Speakers

See page 7 for information on how to mount speakers.

Rear View



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

- | | | |
|------------------------------------|---|---|
| ① Power switch | ⑪ Full Scart input terminal | ⑳ Half Scart input terminal |
| ② Power (AC) input terminal | ⑫ Antenna input terminal | ㉑ Extend an RS-232 input for ATV communication. |
| ③ DVI Video / HDMI input terminal | ⑬ Digital Audio output terminal for coaxial cable | ㉒ SPDIF Optical audio output terminal |
| ④ D-SUB input terminal | ⑭ Subwoofer output terminal | ㉓ Extend an RS-232 input for DTV communication. |
| ⑤ DVI/D-SUB Audio input terminal | ⑮ Extend Audio output terminal | ㉔ Speaker terminal |
| ⑥ Component 2 Audio input terminal | ⑯ S-Video input terminal | ㉕ USB Input Terminal |
| ⑦ Component 2 Video input terminal | ⑰ Video(CVBS) input terminal | ㉖ Memory Card Slot |
| ⑧ Component 1 Audio input terminal | ⑱ Audio(CVBS) input terminal | |
| ⑨ Component 1 Video input terminal | ⑲ Headphone output terminal | |
| ⑩ CVBS output terminal | | |

* ㉕ + ㉖ For Q320 Model only

Parts Names and Functions - 40" LCD TV

Front View



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

❶ Speakers

❷ Power Switch

❸ 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

❹ Standby/On button

Use this button to turn on or off the TV.

❺ Source button

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

❻ Menu button

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

❼ Select button

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

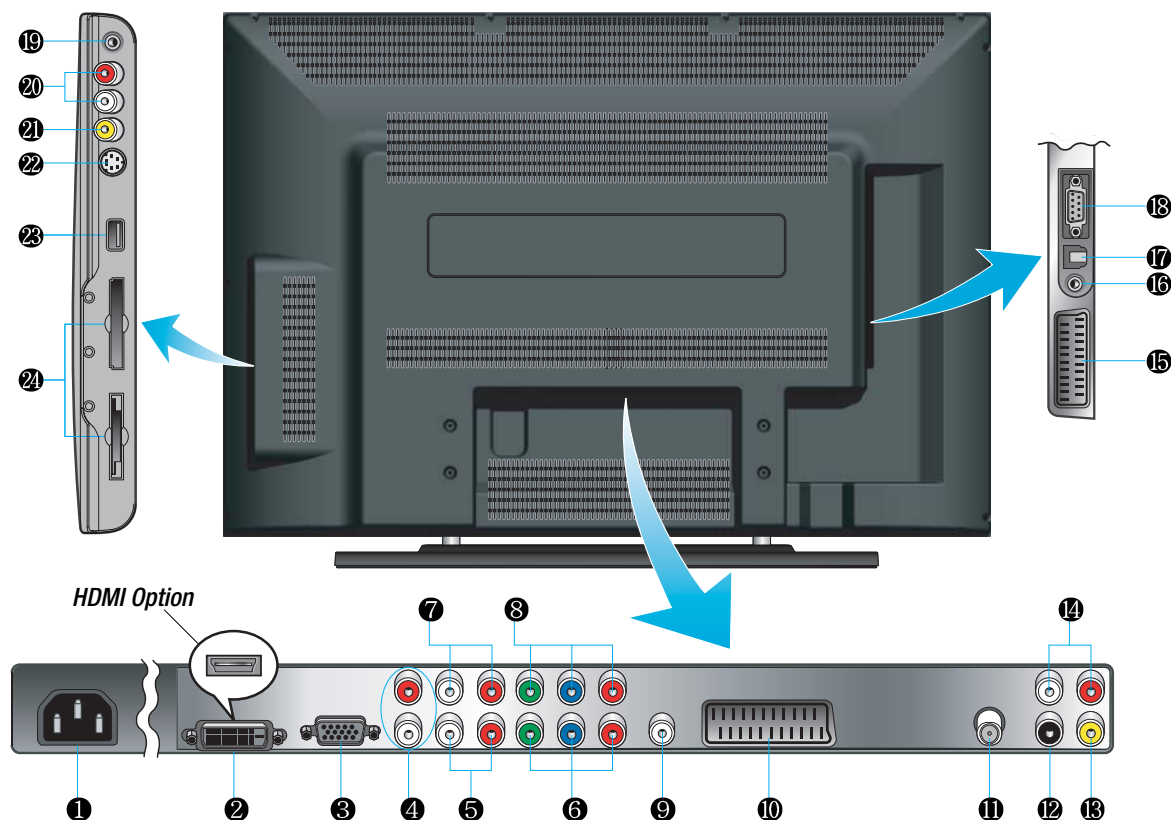
❽ Channel buttons

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

❾ Volume buttons

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

Rear View



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

- | | | |
|------------------------------------|---|------------------------------|
| ① Power (AC) input terminal | ⑪ Antenna input terminal | ⑲ Headphone output terminal |
| ② DVI Video / HDMI input terminal | ⑫ Digital Audio output terminal for coaxial cable | ⑳ Audio(CVBS) input terminal |
| ③ D-SUB input terminal | ⑬ Subwoofer output terminal | ㉑ Video(CVBS) input terminal |
| ④ DVI/D-SUB Audio input terminal | ⑭ Extend Audio output terminal | ㉒ S-Video input terminal |
| ⑤ Component 2 Audio input terminal | ⑮ Half Scart input terminal | ㉓ USB Input Terminal |
| ⑥ Component 2 Video input terminal | ⑯ Extend an RS-232 input for ATV communication | ㉔ Memory Card Slot |
| ⑦ Component 1 Audio input terminal | ⑰ SPDIF Optical audio output terminal | * ㉓ + ㉔ For Q400 Model only |
| ⑧ Component 1 Video input terminal | ⑱ Extend an RS-232 input for DTV communication | |
| ⑨ CVBS output terminal | | |
| ⑩ Full Scart input terminal | | |