

BenQ

DV2680/DV3070/DV3080

26"/30" LCD TV

User's Manual

Welcome

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FCC Statement

FCC Notice

LCD TV DV2680/DV3070/DV3080: A CLASS B digital device

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 when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by BENQ Corporation could cause harmful interference and would void the user's authority to operate this device.

WARNING: This is a CLASS B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to counter interference.

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

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1 Introduction

Thank you for purchasing the BenQ DV2680/DV3070/DV3080 Liquid Crystal Display Television. Your DV2680/DV3070/DV3080 will bring you years of high-quality viewing enjoyment. Your new BenQ television is extremely easy to operate, and has exceptionally high image quality.

The DV2680/DV3070/DV3080 is also extremely versatile. You can install your television on the wall or set it on a table, and it can be used under any type of illumination.

This manual will explain the operation of the DV2680/DV3070/DV3080 Liquid Crystal Display Television, including the set's functions and features and other important information. Before installing or operating your liquid crystal display television, please take the time to thoroughly read this manual, particularly the sections on safety!

Functions and Features

The DV2680/DV3070/DV3080 Liquid Crystal Display Television has many useful functions, including:

- 1280 x 768 internal resolution
- 600 nit (DV2680/DV3080) or 500 nit (DV3070) brightness
- 600:1 (DV2680/DV3080) or 500:1 (DV3070) contrast ratio
- Compatibility with all digital television (DTV) formats (with external tuner), including 480i, 480p, 720p, 1080i
- 3-2 Pull Down Recovery
- 3D digital comb filter
- De-Interlacing
- Multiple image formats for diverse viewing conditions
- PIP
- Shortcut buttons:
 1. Freeze frame
 2. Multi-Channel Television Sound (MTS) (Bilingual)
 3. Sleep timer
 4. Back light adjustment
 5. Auto Calibration
 6. Aspect Ratio Adjustment
 7. Graphic OSD

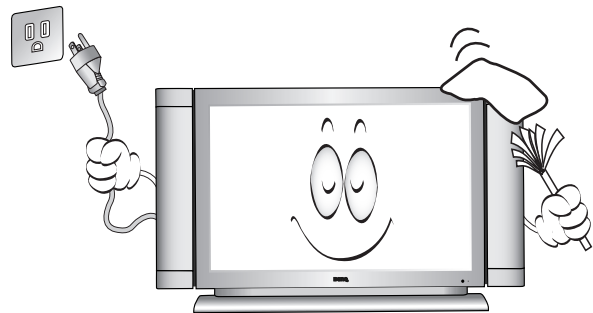
2 Important Safety Instructions

Electrical energy can perform many useful functions, but it can also cause personal injury and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. Proper care will also prolong the service life of your BenQ LCD TV. Just follow these simple instructions before using your TV.

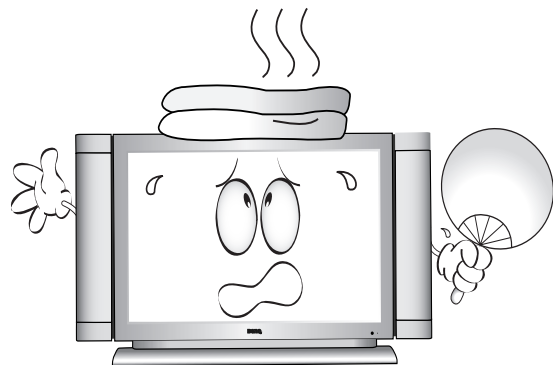
- 1. Read instructions**—All operating instructions must be read and understood before the product is operated.
- 2. Retain instructions**—These safety and operating instructions must be kept in a safe place for future reference.
- 3. Observe warnings**—All warnings on the product and in the instructions must be observed closely.
- 4. Follow instructions**—All operating instructions must be followed.
- 5. Water and moisture**—Do not use this product near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like. Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.



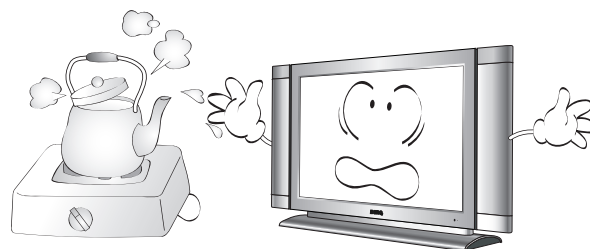
- 6. Cleaning**—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



- 7. Ventilation**—The vents and other openings in the cabinet are designed to let hot air escape from the TV. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the TV on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This TV is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.

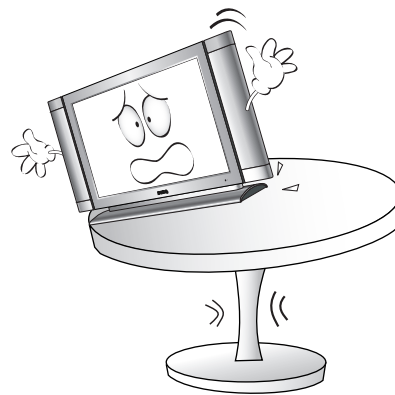


8. **Heat sources**—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

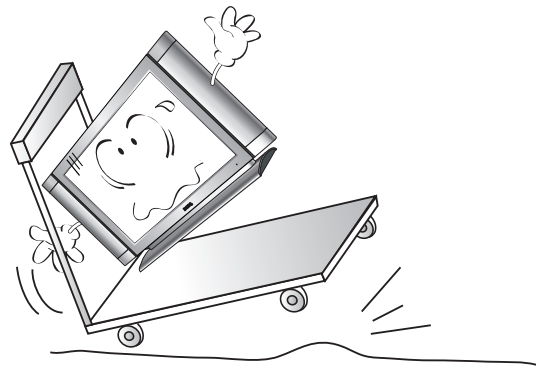


9. **Grounding or Polarization**—This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding-type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your incompatible outlet. **DO NOT ATTEMPT TO BYPASS THE SAFETY PURPOSE OF THE POLARIZED AND GROUNDED PLUG.** The 3-wire grounding-type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your incompatible outlet.
10. **Power cord protection**—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product. Power-supply cords should be routed so that they are not likely to be walked on or snagged by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
11. **Attachments**—Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.
12. **Accessories**—When the product is used on a trolley, care should be taken to avoid quick stops, excessive force, and uneven surfaces that may cause the product and trolley to overturn, damaging equipment or causing possible injury to the operator. Do not place this product on an unstable trolley, stand, pedestal, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and use only with a trolley, stand, pedestal, bracket, or table recommended by the manufacturer.
13. **Servicing**—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
14. **Replacement parts**—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
15. **Power source**—This product is intended to be supplied by a listed power supply, output rated 19 V DC, 3A minimum, indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for your TV, unplug it from the wall outlet and disconnect the cable system when it is left unattended and unused for long periods of time. This will prevent damage due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. The power supply voltage rating of this product's AC adaptor is AC100-240V. The power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock. If the AC adaptor is misplaced or needs to be replaced, obtain the same type of adapter from a BenQ service center or your dealer.

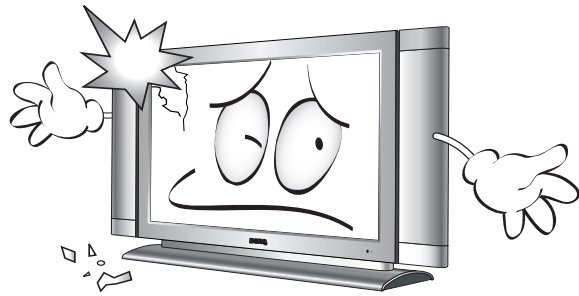
- 16. Overloading**—Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- 17. Entering of objects and liquids**—Never poke an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- 18. Damage requiring service**—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
- When the power cord or plug is damaged.
 - When a liquid is spilled on the product or when objects have fallen into the product.
 - When the product has been exposed to rain or water.
 - When the product does not operate properly as described in the operating instructions.
 - Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
 - If the product has been dropped or the cabinet has been damaged in any way.
 - When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.
- 19. Safety checks**—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- 20. Wall or ceiling mounting**—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.
- 21. Stand**—Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a trolley, stand, tripod, and bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



- 22. Careful move**—When relocating the product placed on a trolley, it must be moved with the utmost care. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.



- 23. Panel protection**—The LCD panel used in this product is made of glass. Therefore, it can break when the TV is dropped or hit by other objects. Beware of injuries in the event of the LCD glass screen breaking.

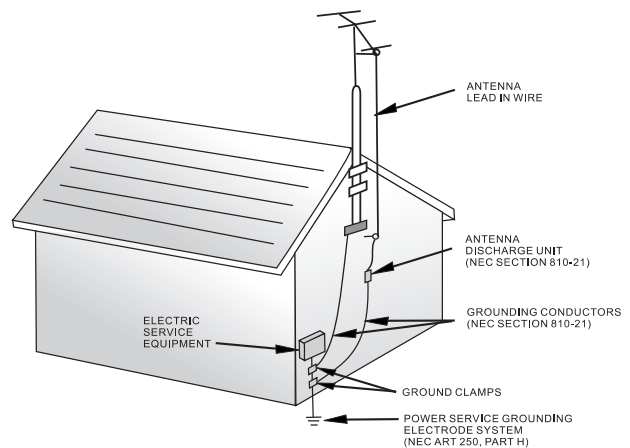


- 24. Pixel defect**—The LCD panel is a high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to:

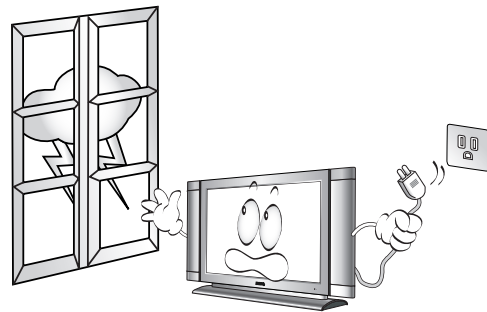
- proper grounding of the mast and supporting structure;
- grounding of the lead-in wire to an antenna discharge unit;
- size of grounding conductors;
- location of antenna-discharge unit;
- connection to grounding electrodes;
- and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

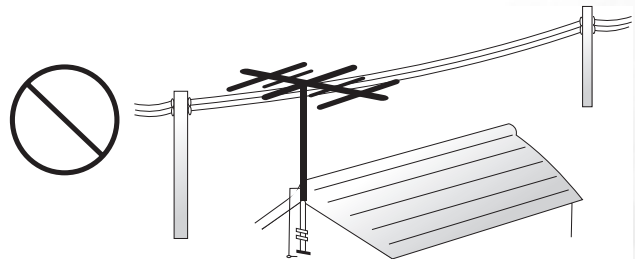


NEC - NATIONAL ELECTRICAL CODE

For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.



An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can collide with such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

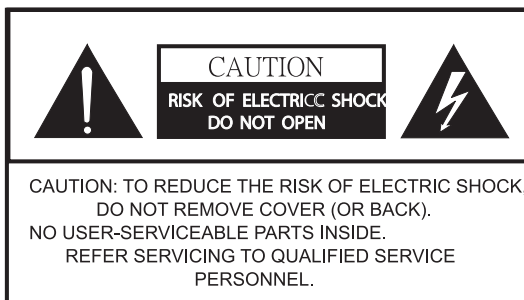


Important Information

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DONOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment. (U.S.A. ONLY)

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.



The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within a triangle, alerts the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may constitute a risk of electric shock.



Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

Safety Tips

Please read and follow these safety tips to ensure the equipment is free from damage, and to ensure that no injury will occur as a result of improper use.

- Do not insert any object (especially metal) or liquids, into the TV.
- Do not place any objects containing water or any other liquid on top of the TV.
- Do not place the unit in direct sunlight, near heaters or in extremely dusty or humid locations.
- Do not install this system outdoors or otherwise expose it to the elements.
- Do not place heavy objects on top of the TV.
- If the power cord is damaged or frayed in any way, electrical shock and/or fire may result.
- Please do not place objects on the power cord, and keep the cord away from heat-emitting devices. Should the power cord become damaged in any way, please contact your dealer for a replacement cord.
- Do not remove the cover of the TV for any reason. If any problems arise with the unit, please contact your dealer for service. Removing the covers will void the warranty.

WARNING

Before Setting Up

Do not place the TV on sloped or unstable surfaces.

- The TV may fall or tip over.

Do not place any objects on top of the TV.

- If water spills onto the TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the TV, please consult an Authorized Dealer.

Do not cover the ventilation holes.

- Doing so may cause the TV to overheat, which can cause fire or damage to the set.

AC Power Supply Cord

The TV is designed to operate on 100~240 V AC, 50/60 Hz. Securely insert the power cord plug as far as it will go.

- If the plug is not fully inserted; heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.

- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable, which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the TV is not to be used for a long period of time, unplug the power cord from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the TV, unplug the power cord immediately.

- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its dangerous high voltage nature.

If water or foreign objects get inside the TV, if the TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

- A short-circuit may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

CAUTION

When using the LCD TV

To turn off the main power, be sure to remove the plug from power outlet. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

Be sure to disconnect all cables before moving the LCD TV.

- Moving the Display with its cables attached might damage the cables, which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.

- Built-up dust on the power cord plug can increase humidity, which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.
- Do not insert any objects or liquids into the unit.
- Do not expose the unit to water or moisture, or otherwise to the elements

- Do not open the unit for any reason. Doing so will void the warranty!
- Unplug the unit if it will not be used for an extended period of time
- Avoid placing the unit near sources of heat
- Avoid placing the unit in direct sunlight

In any event, if any problems arise, contact your dealer immediately!

3 Package Contents

Please ensure that the following items are included with your DV2680/DV3070/DV3080 Liquid Crystal Display TV. If any item is missing or damaged, contact an authorized dealer immediately.



DV2680/DV3070/DV3080 LCD TV (x1)



User's manual (x1)



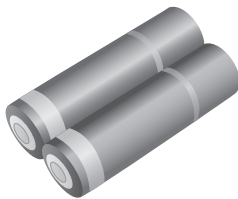
Power cord (x1)



Composite video cable (x1)



Remote control (x1)



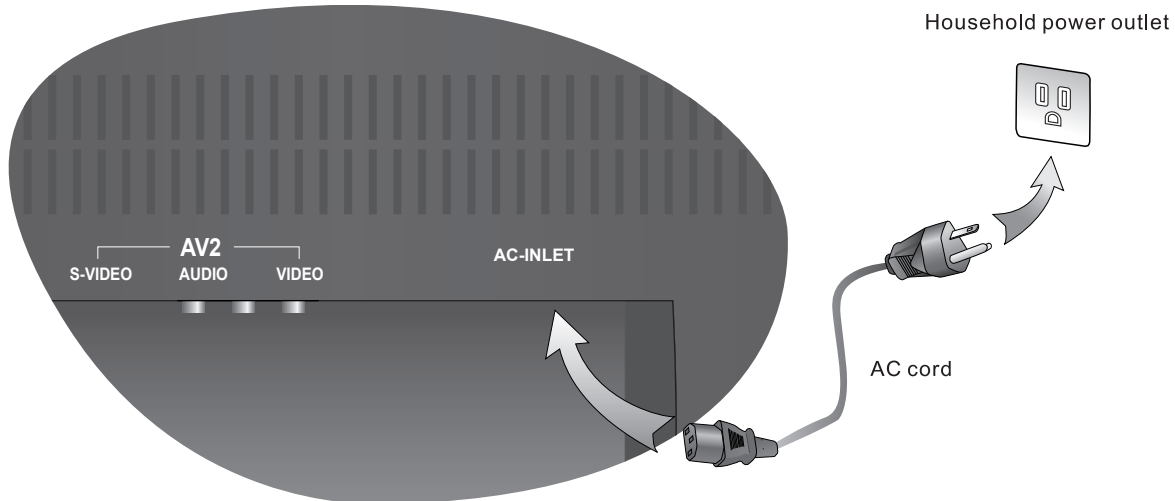
AAA batteries (x2)

 Different countries have different AC power cord types.

4 Setting up Your Television

Connecting the Power Cord

1. Connect the female end of the AC power cord to the AC input on the television.
2. As shown in the diagram, connect the male end to a wall power outlet.



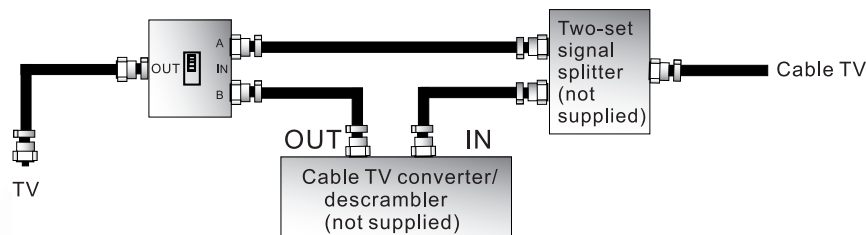
- This product must be operated only from the type of power source indicated on the marking label (AC 100~240V 50/60 Hz).
- If the television will not be used for a long period of time, it should be unplugged from the wall outlet.

Connecting the Antenna (For NTSC Systems)

Connecting CATV

Your BenQ television has an internal 75 ohm coaxial cable connector, so antennal hook-up is very easy. When connecting a 75-ohm coaxial cable to your BenQ television, secure it firmly to the ANT connector. Some cable television companies provide "pay per view" programming. Since the signal for these paid channels is encoded, most cable television companies provide their own tuners/ decoders. You must install a tuner/ decoder to be able to view locked encoded programming. If you require special instructions on how to install cable service, please contact your cable television provider. The tuner/decoder provided by your cable television company can be used according to the following instructions.

Please note: you must have an RF switch with two inputs (A and B) (not supplied).



The "A" input on the RF switch (not supplied) allows you to use the television's channel selector button to view unlocked channels. The "B" input on the RF switch (not supplied) allows you to use the channel selection button on your cable box to view locked encoded programming via the tuner/decoder.

Antenna

The antenna equipment has far more effect on reception for color televisions than on black and white models. We suggest you use a good-quality outdoor antenna. Following are simple explanations for the connection of various types of antennas.

1. Generally speaking, 75 ohm systems have a round cable with an F-shaped connector which requires no tools. Attach the cable directly to the input (not included).
2. 300 ohm systems have a flat "dual lead" type cable. A 300-75 ohm transformer may be used to attach the antenna to a 75 ohm input (not included).



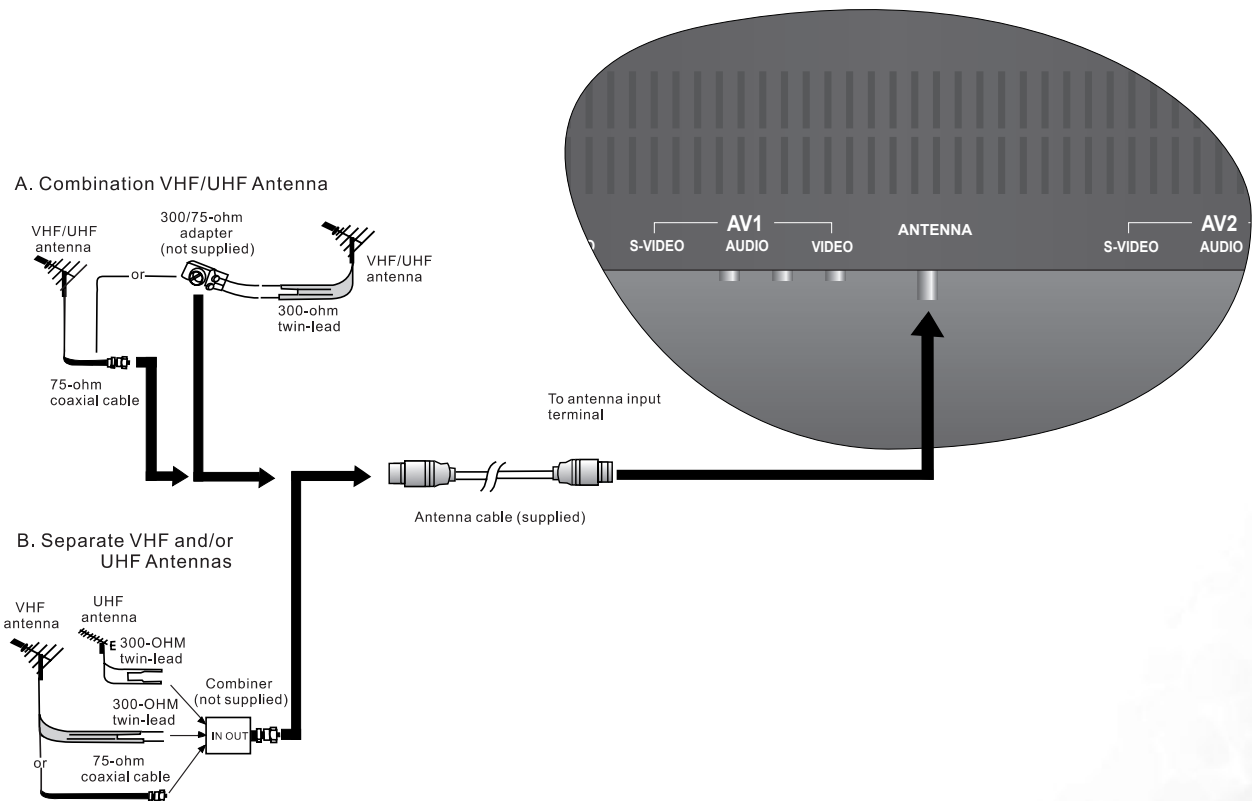
Installation of an Outdoor Antenna

If an outdoor antenna is required, use any of the following.

A: Use a combination VHF/UHF outdoor antenna.

B: Use separate VHF and/ or UHF outdoor antennas.

Connect the lead from the outdoor antenna to the ANT input on the rear of the television.



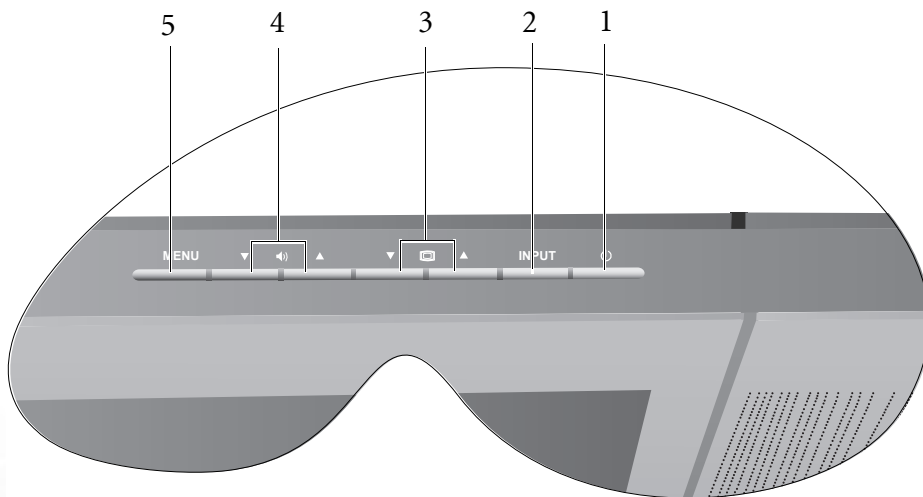
5 Controls and Terminals

Main Unit (Front View)



No.	Name	Description
1	Speaker	High-quality speakers for delivering excellent sounds.
2	Power indicator	When the unit is powered on, the power indicator light is green. When the set is in standby mode, this light is red.
3	Remote control sensor window	Receives the signal from the remote control.

Control Panel



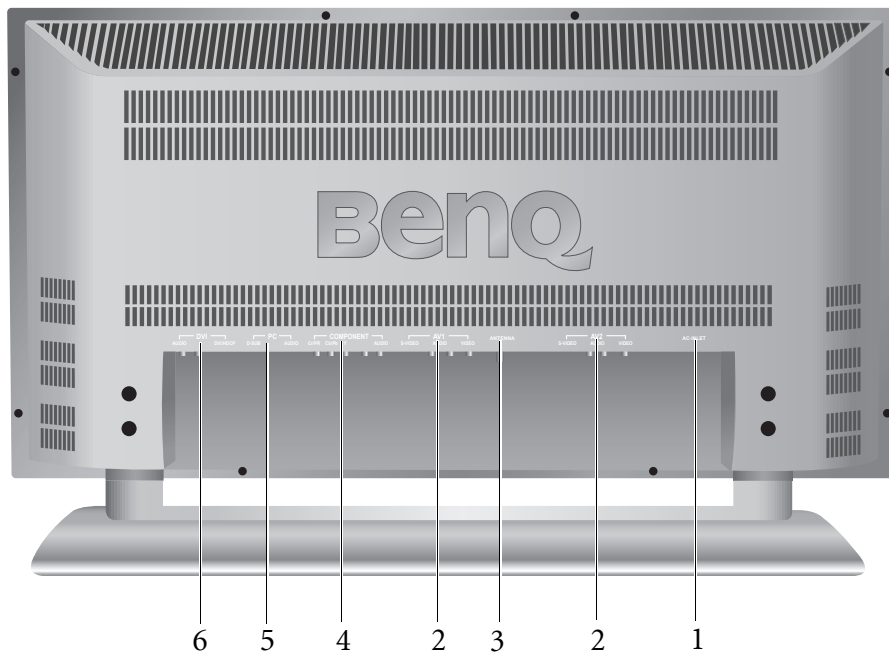
No.	Name	Description
1	Power	<ul style="list-style-type: none"> Press the Power button to turn on the DV2680/DV3070/DV3080 when it is in "standby" mode. Press the Power button once more to turn the DV2680/DV3070/DV3080 "off" by placing it into "standby" mode.
2	INPUT	This button allows you to switch among TV/Video/PC signal sources.
3	Channel (▼)/(▲)	These two buttons allow direct selection of channels.

4	Volume (▲)/(▼)	<ul style="list-style-type: none"> • Press Volume ▲ to increase the volume, or Volume ▼ to decrease it. • On the OSD main screen, pressing these buttons allows selection of options.
5	MENU	Press this button to display the on-screen display (OSD) menu.

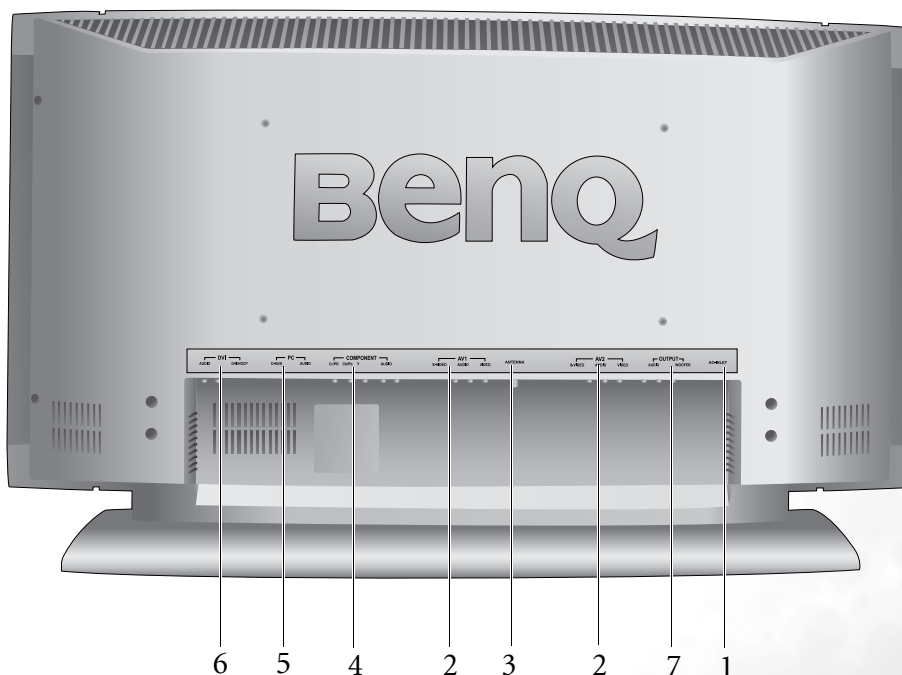
☞ The "Power", "Channel (▼)/(▲)", "Volume (▼)/(▲)", "Input" and "Menu" buttons on the main unit function in the same way as their counterparts on the remote control. Information in this manual is based on the use of the remote control to operate the television.

Main Unit (Rear View)

DV2680



DV3070/DV3080



No.	Name	Description
1	AC INLET	Connect the power cord (provided) to this input.
2	AV1 & AV2	<ul style="list-style-type: none"> • VIDEO (Composite (AV) signal input, RCA connector): Attach the Composite video output of your DVD player or other AV device. • AUDIO (Audio input, L/R): Attach the audio out of your DVD player or other AV device here. This input is used with combination (AV) and S-VIDEO input. • S-VIDEO (S-VIDEO input): Attach the S-VIDEO OUT of your DVD player or other AV device here.
3	ANTENNA	Attach your antenna (not provided) to this input.
4	COMPONENT	<ul style="list-style-type: none"> • Y (Component video input, Y CB/Pb Cr/Pr): Attach the component image input of your standard progressive scan DVD player or HDTV here. The *Y connector (green) can also be used as a second composite signal input. • AUDIO (Audio input, L/R): Attach the audio out of your DVD player or other AV device here.
5	PC	<ul style="list-style-type: none"> • PC D-SUB (15-pin D-SUB computer signal input): Connect your computer's monitor (analog RGB) output here. • PC AUDIO: Connect your desktop or notebook computer's audio output here.
6	DVI (Digital Video Interface)	<ul style="list-style-type: none"> • DVI/HDCP (Digital Video Input): Attach the digital output (digital RGB) from your PC or video here. • DVI AUDIO (Audio input, L/R): Connect the audio output of digital signal here.
7	OUTPUT (L/R/ WOOFER)	Attach the audio input of an amplifier here.

Making Connection

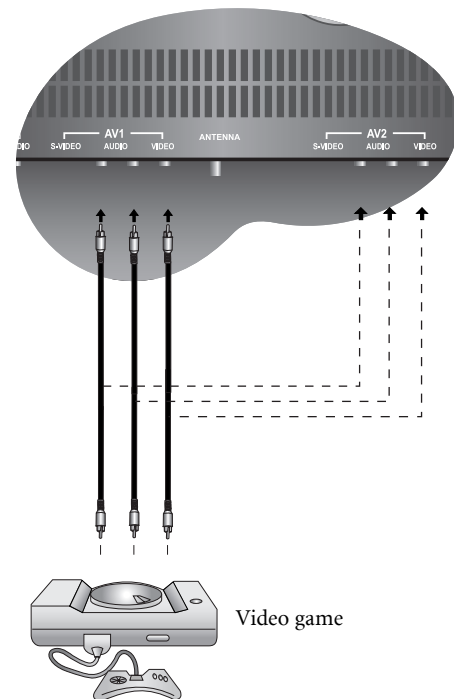
- Before connecting any component, please familiarize yourself with the location and type of each input. If incorrect connections are made, picture or color quality may be adversely affected. Please ensure that all connectors are firmly seated.
- Your DVD player, VCR or home theatre system can be connected to the rear of the television so that you can enjoy a complete audio-visual experience. Before connecting external devices, turn off the power to the television for safety.

Connecting AV Equipment

Connecting Composite Video Signal (RCA)

Connect the Composite signal terminal on the TV to the output of AV equipment via an Composite video cable (RCA connector) as illustrated.

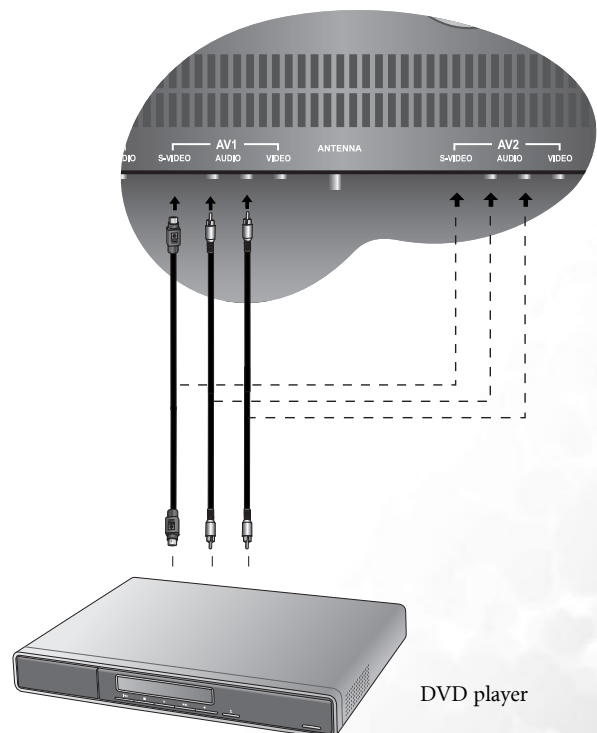
The DV2680/DV3070/DV3080 provides two sets of Composite video inputs (AV1 & AV2).



- ☞ **Composite video input is the most commonly used signal input. However, this type of input also provides a less optimal image quality. Many video sources can only output Composite video signals, for example, VCRs and camcorders. Other video sources, such as laser disc players, actually produce slightly better results when using Composite video.**

Connecting S-Video Signal

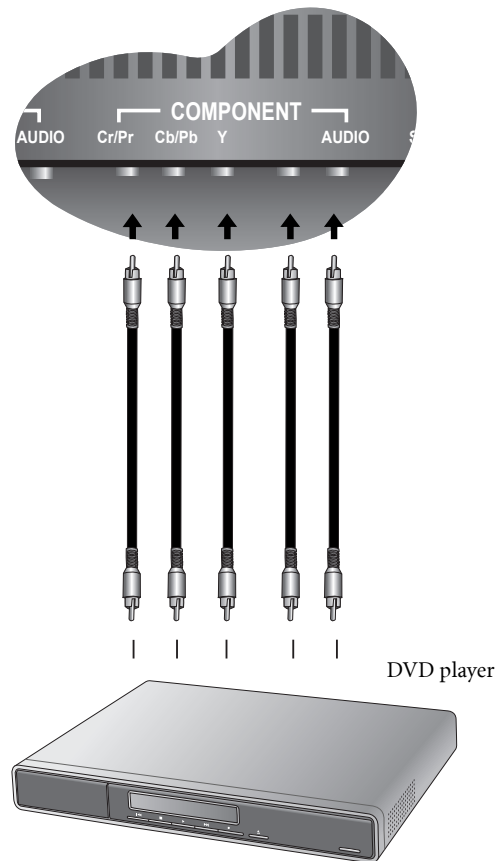
Connect your AV equipment to the television's S-VIDEO terminal using an S-video cable. The DV2680/DV3070/DV3080 provides two S-video inputs (AV1 & AV2).



- ☞ **Of all the signal types, S-video provides the second-best quality, and it is far superior to Composite video signals. Because of this, when using satellite receivers, high-quality VCRs and DVD players (without Composite video output) as sources, S-video will provide a clearer, sharper signal.**

Connecting Component Video Input (Y Cb/Pb Cr/Pr) Signals

Connect your AV equipment to the television's Component Cb/Pb Cr/Pr input using a Component video cable.

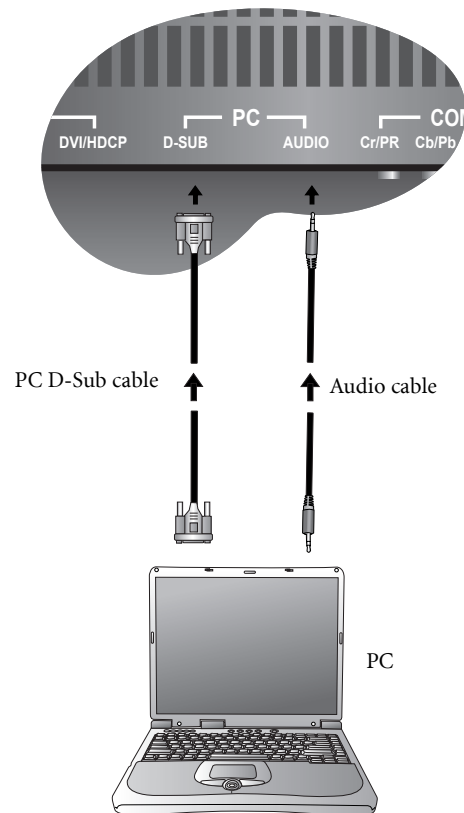


1. Of the currently available input signal types, Component video input offers the best quality. Most commonly, Component video output comes from DVD players. Therefore, when using a DVD player, we suggest that you use Component video input. The image quality with this type of input is superior to that obtained with S-video. All HDTV signals must go through this input. This input can also be used for high-resolution signals, such as for progressive scanning DVD players or computers.
2. Connect to the Component video input (Y Pb Pr) if your DVD player is a progressive scan model.
3. Connect to the Component video input (Y Cb Cr) for standard DVD players.
4. Your BenQ television supports 480p, 720p and 1080i HDTV signals.

Connecting RGB (Min D-SUB 15 Pin Connector) Signals

Connect your computer's output cable to the D-SUB input using a Min D-SUB 15 pin cable.

Connect your computer's audio out to the television using an appropriate cable.

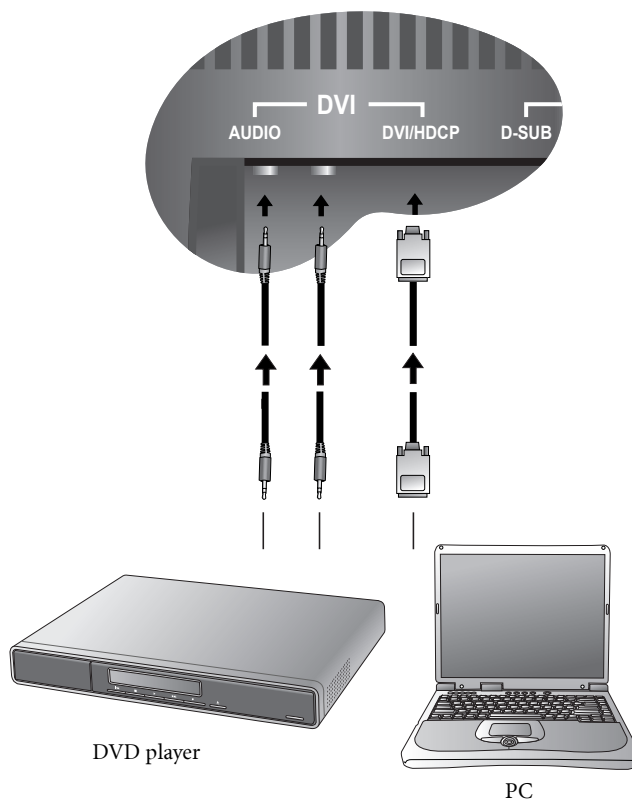


1. The native display resolution of the television is 1280 x 768. If the signal resolution is greater than the native resolution, the screen may be unable to display image details clearly.
2. You will need a converter to connect a Macintosh computer to the television using a PC D-SUB 15P cable.
3. Certain PC models cannot be connected to the television.
4. If your computer has a DOS/V compatible D-SUB 15P, no adapter is required.
5. The computer in the illustration is shown only for reference; your equipment may vary.
6. Additional equipment shown in the illustration is not provided.
7. Do not set the computer's horizontal and vertical scanning frequencies, because these scanning frequencies are less than or greater than the frequency range.
8. If you require more information on how to connect your equipment, please refer to the manual for the piece of equipment you wish to attach.

Connecting DVI/HDCP Signals

Connect the computer equipment or digital video source to the DVI/HDCP input on the Television using a DVI-D cable.

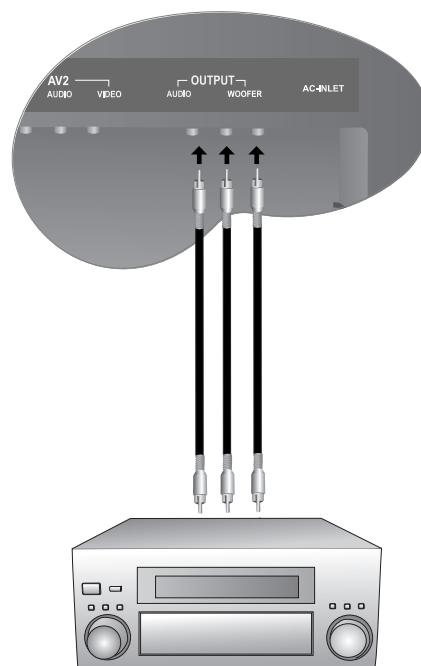
Connect using a cable appropriate for your computer's audio output.



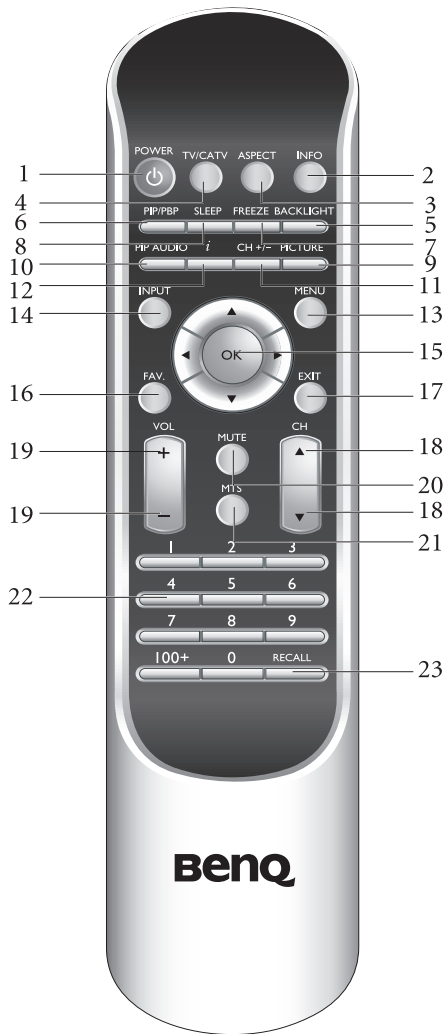
Connecting Audio Output Signals (DV3070/DV3080 Only)

The DV3070 and DV3080 models provide extra audio output terminals for delivering TV audio signal to an amplifier, subwoofer or other audio devices.

Connect the OUTPUT AUDIO L/R and WOOFER terminals on the TV to the signal input terminals of an amplifier or subwoofer using the AV cable.



6 Remote Control



1. POWER

Press this button to power on the television. Press again to put the set into standby mode.

2. INFO

Press this button to display the TV channel message and any signal message (including video or computer signals). Press the **EXIT** button to turn it off.

3. ASPECT

Press this button to adjust screen image display settings.

4. TV/CATV

Press this button to select television or cable system mode.

5. BACKLIGHT

Press this button to select the desired backlight level.

6. PIP/PBP

Press this button to simultaneously view signals from two different sources on the screen. You may choose picture-in-picture (PIP) mode or picture-by-picture (PBP) mode.

7. FREEZE

Press this button to freeze the screen (the signal will continue to be broadcast). Press the button again to release.

8. SLEEP

Press this button to set the automatic shut-off timer.

9. PICTURE

Press this button to select from among 4 user situation modes.

10. PIP AUDIO

Press this button while in PIP or PBP mode to select audio from the main/sub picture or the left/right picture respectively.

11. CH +/-

Press this button to add current TV channel. Press again to erase current TV channel.

12. "i" key

Press this button to let the television automatically adjust frequency, phase and image position in PC or HDTV modes, or search for signal source and properly display the video format in the video mode.

13. MENU

Press this button to display the OSD (on-screen display) menu for adjusting the image, sound and functions. The function table allows you to use the ▶ or ◀ buttons to select items. Pressing the button again removes the OSD display.

14. INPUT

Press this button to select an input source.

15. ▲/▼/▶/◀ and OK button

- ▲ ▼ : press the ▲ or ▼ buttons to select settings.
- ▶ ◀ : press the ▶ or ◀ buttons to adjust OSD menu settings.
- Press **OK** to execute selections, or to enter a submenu you have selected.

16. FAVORITE

Press this button to jump to the five favorite channels you have set.

17. EXIT

When operating the on-screen display, press this button to return to the next higher menu level.

18. CH ▲/▼

Press this button to change channels.

19. VOL ▲/▼

Press these buttons to raise or lower the volume.

20. MUTE

Press this button to mute the sound. Press it again to restore audio.

21. MTS

Press this button to select various audio systems (different television systems have different selections).

22. Channel select

Press these buttons to select the channel you wish to view.

23. RECALL

Press this button to toggle between two channels.

Using the Remote Control

When using the remote control, aim it at the remote control sensor window on the television. If there is an object between the remote control and the signal remote control sensor window on the television, the remote may not operate.

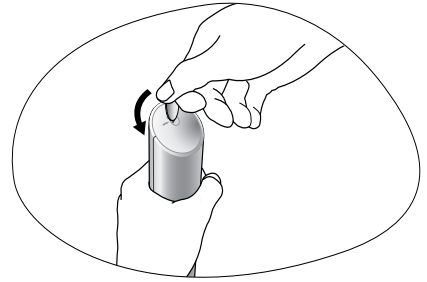
When using the remote control, please note:

- **Do not strike or drop the remote. Do not expose the remote control to liquids and do not place it in humid environments.**
- **Do not install or place the remote control in direct sunlight. The heat may damage the remote control.**
- **If the remote control sensor window on the television is in direct sunlight or strong light, the remote control may not operate normally. In this situation, change the light source or readjust the angle of your television, or operate the remote control from a location closer to the remote control sensor window on the television.**

Batteries

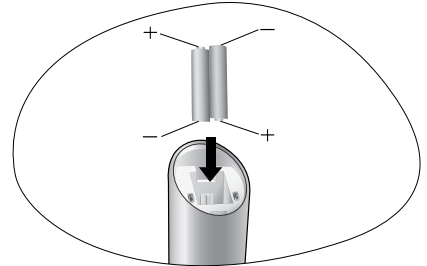
If the remote control does not operate, replace the batteries following the instructions below.

1. Open the lid of the remote control battery compartment (slide the lid backward while pressing down.)

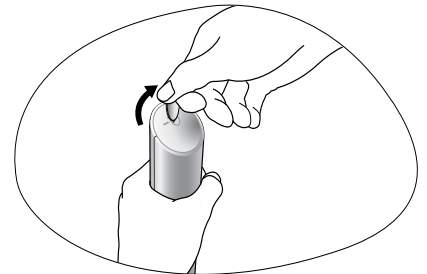


2. Insert two size-AAA batteries (included).

Ensure that the batteries are inserted with the positive and negative terminals in the correct direction corresponding to the (+) and (-) marks in the battery compartment.



3. Press down on the lid of the battery compartment and gently push it back into position until it is firmly seated.



Notes on Using Batteries

The use of the wrong type of batteries may cause chemical leaks and/or explosion. Please note the following:

- Always ensure that the batteries are inserted with the positive and negative terminals in the correct direction as shown in the battery compartment.
- Different types of batteries have different characteristics. Do not mix different types.
- Do not mix old and new batteries. Mixing old and new batteries will shorten battery life and/or cause chemical leaks from the old batteries.
- When batteries fail to function, replace them immediately.
- Chemicals which leak from batteries may cause skin irritation. If any chemical matter seeps out of batteries, wipe it up immediately using a dry cloth.
- Due to varying storage conditions, the battery life for the batteries included with your television may be shortened. If the remote control is not used for a long period of time, remove the batteries.

7 Using the Remote Control

Before first use, ensure that the television is set up correctly and adjust it in accordance with the broadcasting system in your territory.

Power on, Power off and Standby



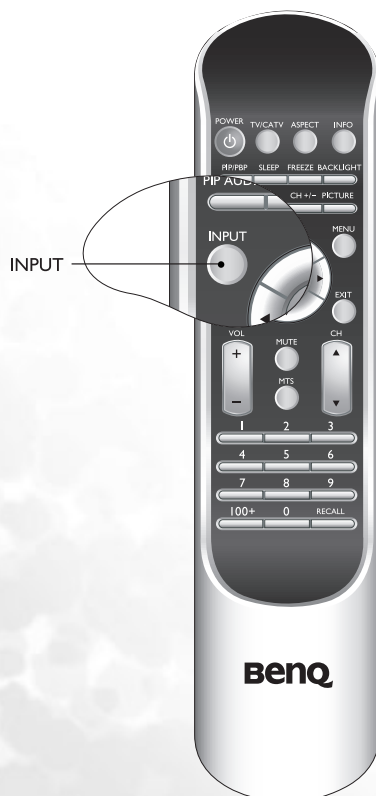
Turning on the television

1. Plug the television's power cord into a wall outlet (after this step, the main unit will turn on and enter standby mode automatically). (The power indicator will be red.)
2. Press the **Power** button on the television, or press the **POWER** button on the remote control. The television will turn on.
3. The television will automatically search for a signal. If the set is already connected to a signal source, the television will display that signal.

Turning off the television

Press the **Power** button on the television again, or press the **POWER** button on your remote control again, and the television will go into standby mode. (The power indicator will turn red).

Switching Inputs

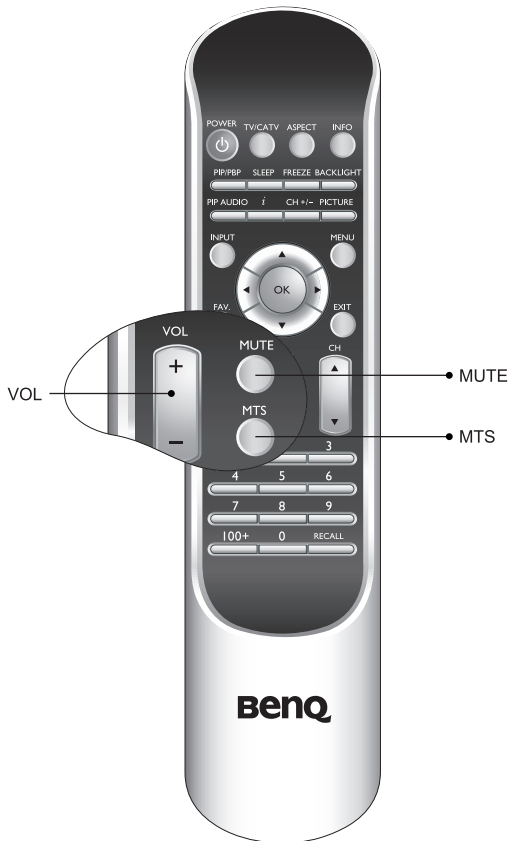


1. Turn on all connected equipment or computers.
2. Press the **INPUT** button on your television several times, or press the **INPUT** button on your remote control to display the signal input selection menu.

Input Source Video 1

If the television detects a signal already connected, that signal will be displayed on the screen.

Adjusting Audio Volume



Adjusting the volume

1. Press the **Volume ▲** button on your television or press the **VOL ▲** button on your remote to increase volume. The volume indicator will increase in length as volume rises.
2. Press the **Volume ▼** button on your television, or press the **VOL ▼** button on your remote to decrease volume. The volume indicator will decrease in length as volume falls.

Mute setting

1. Press the **MUTE** button on your remote control to temporarily cut off sound.



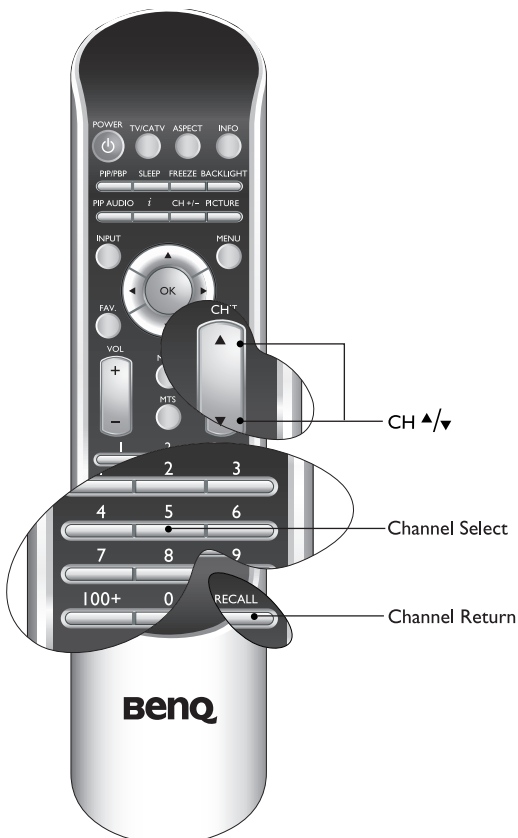
2. Press the **MUTE** button once more, or press the **Volume** or **Power** button on your television or the remote control to restore audio function.

NTSC MTS system

Press the **MTS** button on your remote control to select "Stereo", "SAP (Second Audio Program)", or "Mono" systems.



Changing Channels



Using the "Channel Selection" on the Remote to Change Channels

If you select a one- or two-digit channel (for example, Channel 8), you should complete the following steps within 3 seconds:

1. Press the "0" button.
2. Press the "8" button.

If you select a three-digit channel (for example, 120), you should complete the following steps within 3 seconds:

1. Press the "100" button.
2. Press the "2" button.
3. Press the "0" button.

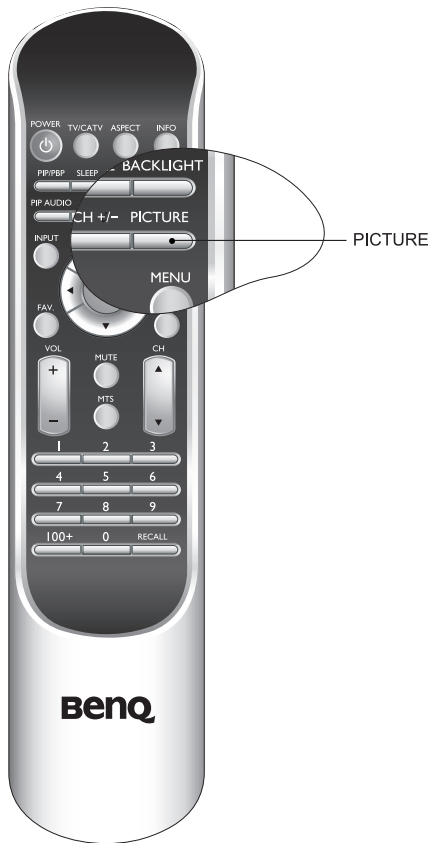
Using the channel up/down button to change channels:

Press **CH ▲** or **CH ▼** on your remote control, or press **CHANNEL ▲** or **CHANNEL ▼** on the television.

Using the channel button to return to the previous channel.

To return to the previous channel, press the **RECALL** button on your remote control.

Adjusting User Situation Modes



To adjust user situation modes, press the **PICTURE** button on the remote control. This enables you to select from among 4 modes (Vivid, Standard, Movie and Sports).



Freeze



Press the **FREEZE** button on the remote control to freeze the image on the screen.



Press the **FREEZE** button again to restore normal motion.

Adjusting Aspect Ratio

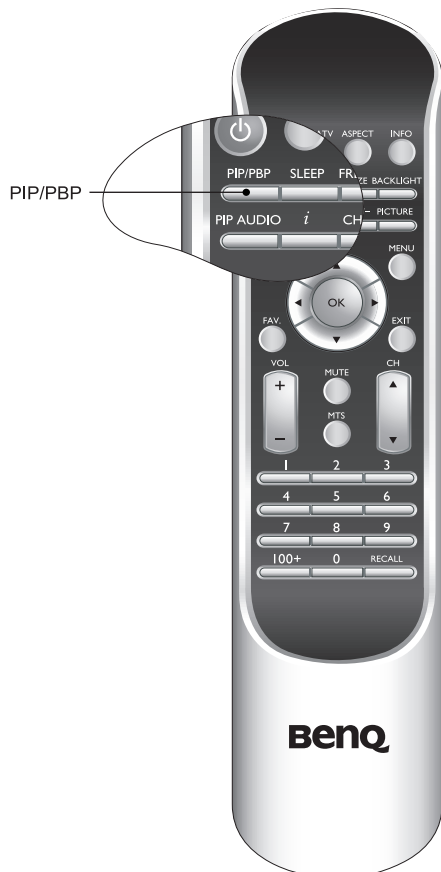


Press the **ASPECT** button on your remote control to select the image aspect ratio you prefer.

Aspect Ratio 16 : 9

Press the button several times to cycle through various ratios.

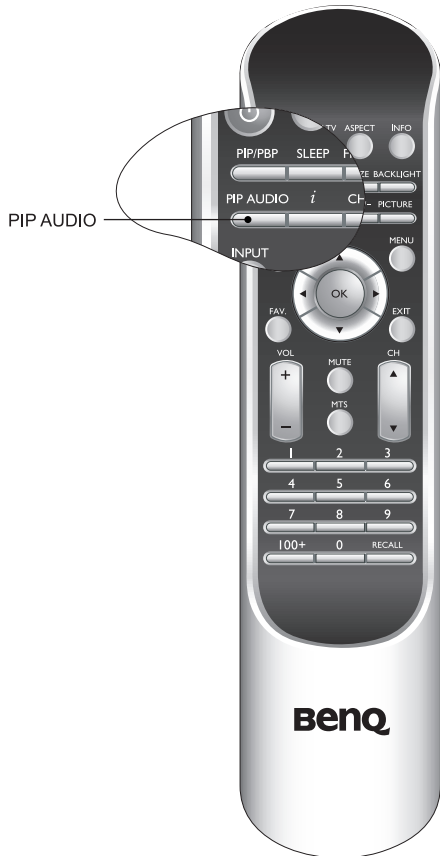
Using the PIP/PBP Function



If your television is connected to two or more different video and audio inputs, pressing the **PIP/PBP** button on your remote allows you to display two images on the screen at once in PIP or PBP mode.

PIP&PBP PBP G by V

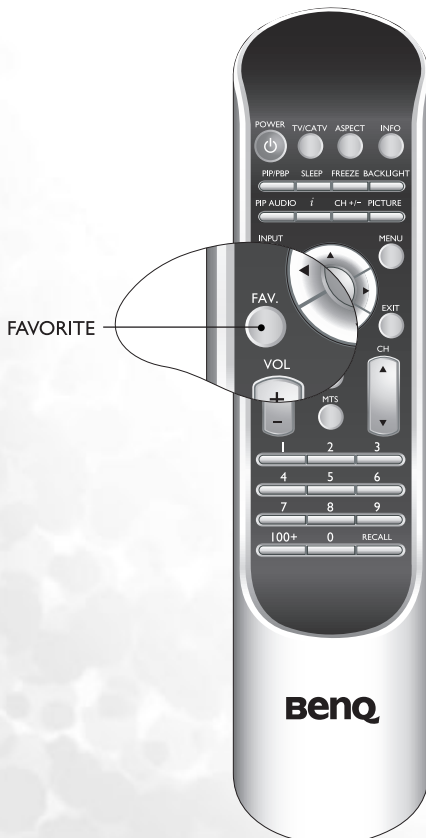
Selecting PIP AUDIO



If your television is connected to two different video and audio inputs, pressing the **PIP AUDIO** button on your remote allows you to select the sound from either the main or sub screen in PIP mode, or from the left or right screen in PBP mode.

PIP Audio Main

Setting Favorite Channels



1. Press the **FAVORITE** button on your remote control to jump back to your preset favorite channel 1.
2. Press the **FAVORITE** button again to jump to your preset favorite channel 2, and so on. You may select from up to 5 channels set as your favorites.

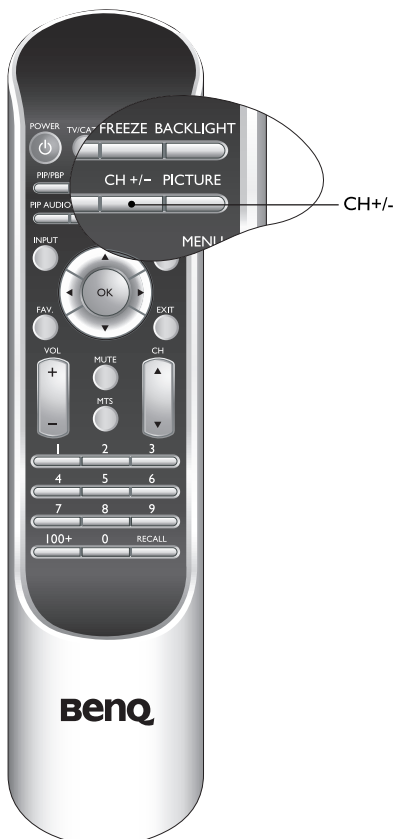
Selecting TV or CATV



To select between the TV/CATV systems, press the **TV/CATV** button on the remote control.

TV/CATV TV

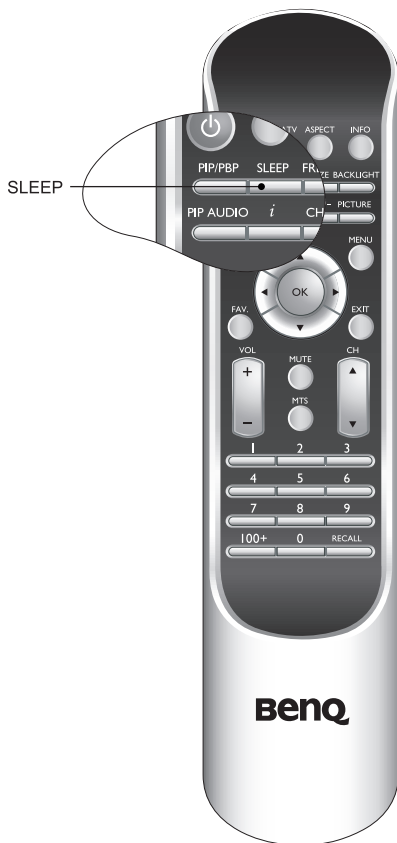
Adding/Deleting Channels



To add or delete a channel, press the **CH +/-** button on your remote control.

Channel is Skipped

Using the Sleep Timer



1. Press the **SLEEP** button on your remote control to set the automatic sleep timer.
2. Use the ◀ or ▶ buttons to adjust the time. Time is set in increments of 30 minutes, from 0 to 180 minutes.

Sleep Timer 0

Adjusting Backlight



If you need to adjust the intensity of your television's backlight, press the **BACKLIGHT** button on your remote control and select "Dark" "Normal" or "Bright".

Backlight Dark

Displaying Information



Press the **INFO** button on your remote control to display the signal information, including input video signal source, TV/CATV system, current audio selection and channel.

Format	NTSC
TV/CATV	CATV HRC
MTS	Sap
Channel	10

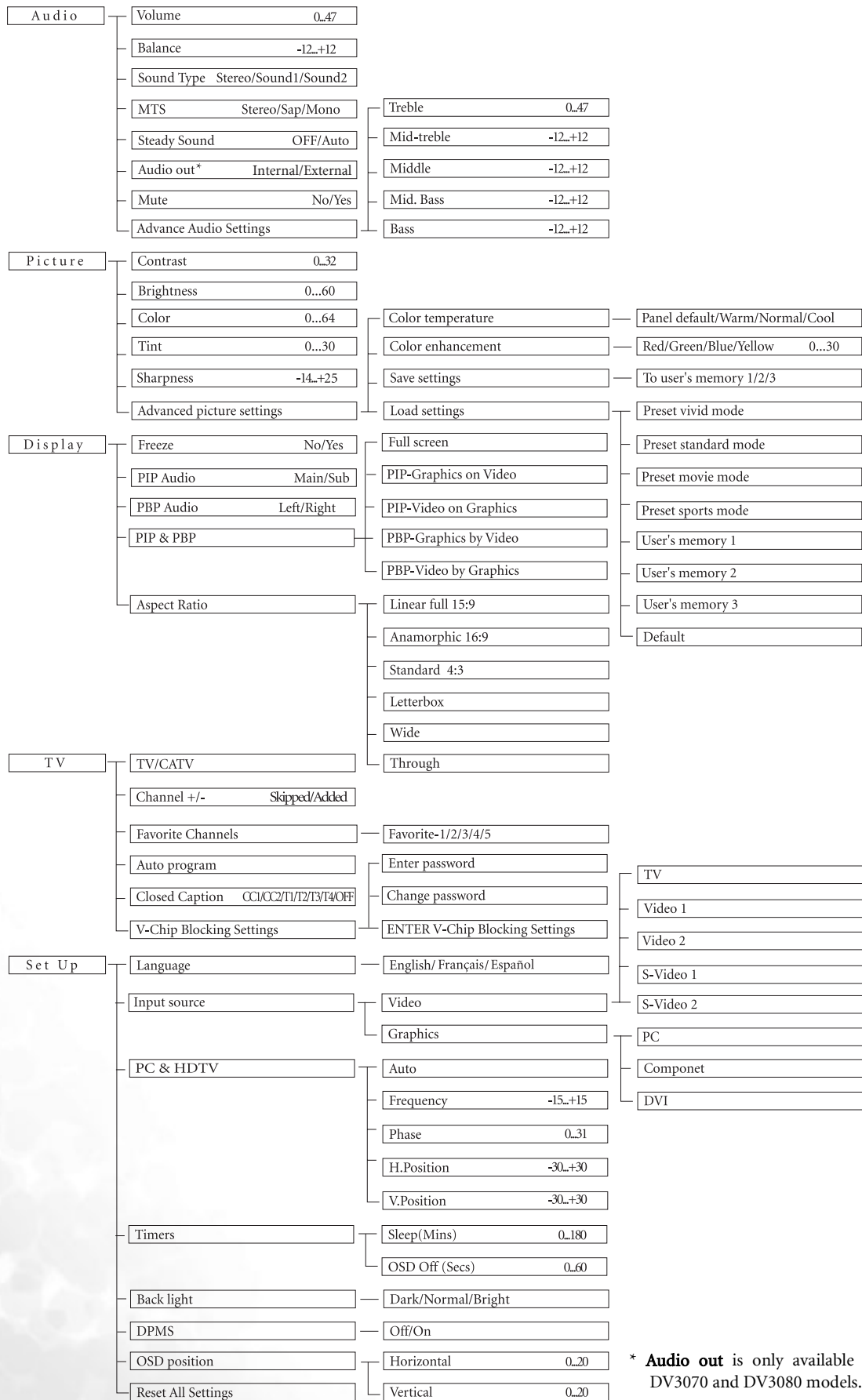
Using the Auto Function



Press the "i" key on your remote control to have your television automatically adjust the frequency, phase, horizontal and vertical positions in PC and HDTV modes.

7 The On-Screen Display (OSD) Menu

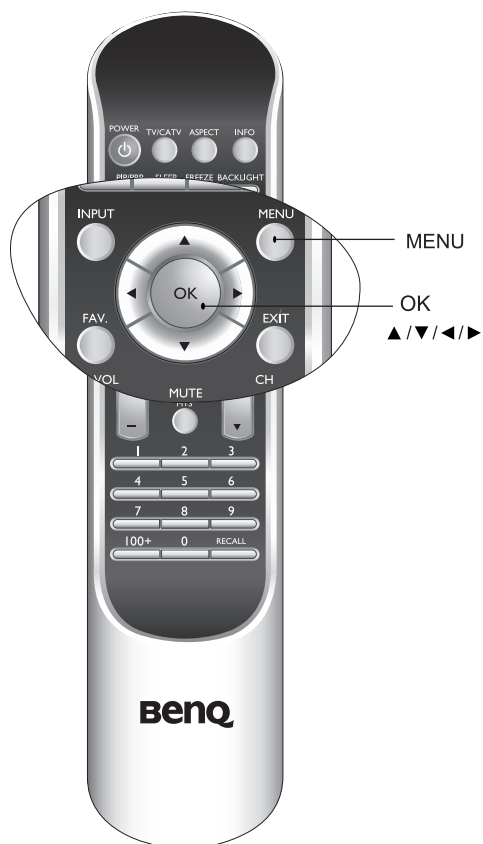
OSD Structure



* **Audio out** is only available with the DV3070 and DV3080 models.

How to Use the OSD Menu

You can use the OSD menu screen to adjust all the settings on your television. Follow the steps outlined below to select the function you desire, and refer to the pages indicated for more information.



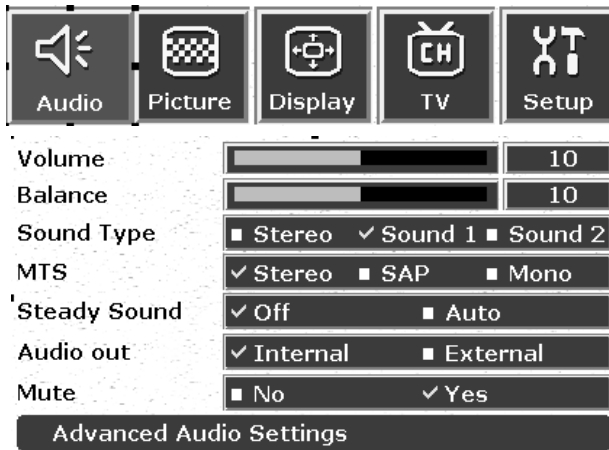
1. As shown in the diagram, pressing the **MENU** button on your remote control, or the **Menu** button on your television will bring up the following main menu on your screen:



2. press the ◀ or ▶ buttons to select items on the main menu, choose functions or change settings.
3. Press **OK** to enter the submenu.
4. Press **EXIT** to exit from the main menu or submenu.

Audio Adjustment

The Audio Adjustment Menu



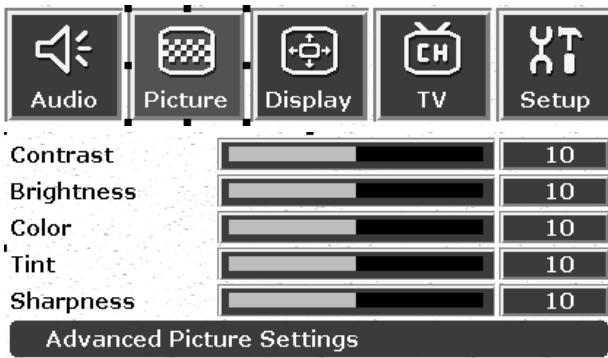
1. Press the **MENU** button on the remote control or the **Menu** button on the television to display the main menu.
2. Press the **◀** or **▶** buttons to select **Audio** and then press the **OK** button to enter the submenu.
3. Press the **▲** or **▼** buttons to select an item.
4. In the **Audio** menu, after selecting the desired option, and pressing **OK**, use the **◀** or **▶** buttons to adjust the setting or select the options.

Item	Function	Operation	Range
Volume	Adjust volume	Use ▶ to increase and ◀ to decrease.	0 to 47
Balance	Adjust left and right levels	Use ▶ to increase right volume, ◀ to increase left volume.	-12 to +12
Sound Type	When audio source is stereo, you may choose stereo sound from the left channel (SOUND1) or from the right channel (SOUND2)	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Stereo, Sound1 Sound2
MTS	Select television audio	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Stereo, Sap (Second audio program), Mono (NTSC, monaural)
Steady sound	Automatically adjusts the strength of the source signals	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	OFF, Auto
Audio out (DV3070/DV3080 only)	Select audio from internal or external speakers	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Internal, External
Mute	Mute the sound	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	No, Yes
Advanced Audio Settings			
Treble	Adjust treble tones	Use ▶ to increase treble, ◀ to decrease treble.	0 to 47
Mid-treble	Adjust mid-treble tones	Use ▶ to increase mid-treble, ◀ to decrease mid-treble.	-12 to +12

Middle	Adjust mid tones	Use ► to increase mid tones, ◀ to decrease mid tones.	-12 to +12
Mid. Bass	Adjust mid-bass tones	Use ► to increase mid-bass ; ◀ to decrease mid-bass.	-12 to +12
Bass	Adjust bass tones	Use ► to increase bass, ◀ to decrease bass.	-12 to +12

Picture Adjustment

Picture Menu

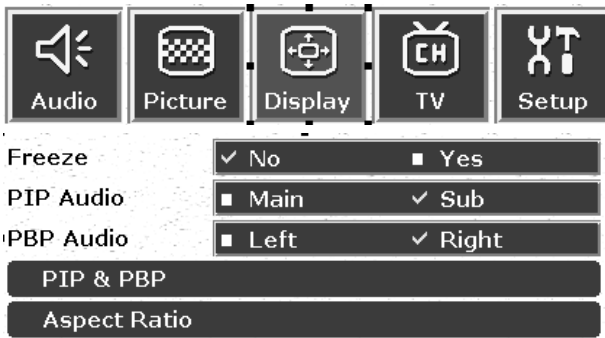


1. Press the **MENU** button on the remote or the **Menu** key on the television to display the main menu.
2. Press the ◀ or ▶ buttons to select **Picture** and then press **OK** to enter the submenu.
3. Press the ▲ or ▼ buttons to select an item.
4. In the **Picture Menu**, after selecting the desired option, and pressing **OK**, use the ◀ or ▶ buttons to adjust the setting or select the options.

Item	Function	Operation	Range
Contrast	Adjust image contrast	Use ▶ to increase contrast, or ◀ to reduce it.	0 to 32
Brightness	Adjust screen brightness	▶ for brighter screen, ◀ for darker screen.	0 to 60
Color	Adjust color saturation	▶ for higher saturation, ◀ for lower saturation.	0 to 64
Tint	Adjust tint	▶ for redder tones, ◀ for greener tones.	0 to 30
Sharpness	Adjust image sharpness for a sharper image	▶ for a sharper image, ◀ for less sharpness.	-14 to +25
Advanced Picture Settings			
Color temperature	Adjust color temperature	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	<ul style="list-style-type: none"> • Panel default • Warm: Biased toward red • Normal: Standard color temperature • Cool: Biased toward blue
Color enhancement			
Red	Adjust red in image	▶ for more red concentration, ◀ for less red concentration.	0 to 30
Green	Adjust green in image	▶ for more green concentration, ◀ for less green concentration.	0 to 30
Blue	Adjust blue in image	▶ for more blue concentration, ◀ for less blue concentration.	0 to 30
Yellow	Adjust yellow in image	▶ for more yellow concentration, ◀ for less blue concentration.	0 to 30
Save settings	Different users can store up to three profiles	Use ▲ or ▼ buttons to select a stored profile.	User's memory 1, 2, and 3
Load settings	Adjust preset user modes or select from any of the 3 user's settings	Use ▲ or ▼ buttons to switch	Vivid, standard, movie and sports; user memory 1, 2 and 3

Display Adjustment

Display Menu



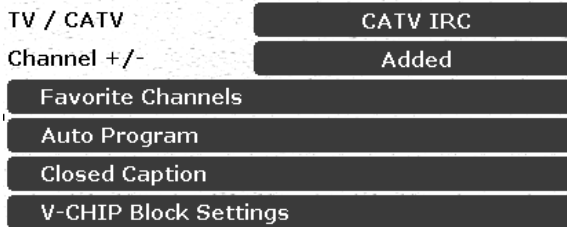
1. Press the **MENU** button on the remote control or the **Menu** key on the television to display the main menu.
2. Press the ◀ or ▶ buttons to select **Display** and then press **OK** to enter the submenu.
3. Press the ▲ or ▼ buttons to select an item.
4. In the **Display Menu**, after selecting the desired option, and pressing **OK**, use the ◀ or ▶ buttons to adjust the setting or select the options.

Item	Function	Operation	Range
Freeze	Freeze motion of screen image (however, broadcast continues)	Use the ◀ and ▶ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	No, Yes
PIP Audio	Select audio from main or sub picture in PIP mode	Use the ◀ and ▶ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Main , Sub
PBP Audio	Select audio from left or right picture in PBP mode	Use the ◀ and ▶ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Left, Right
PIP & PBP	Display Video and Graphics simultaneously and options for PIP or PBP modes	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	<ul style="list-style-type: none"> • Full screen • PIP - Graphics on video • PIP- Video on graphics • PBP- Graphics by video • PBP - Video by graphics
Aspect Ratio			
Linear full 15:9	Adjust aspect ratio to 15:9	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	
Anamorphic 16:9	Adjust aspect ratio to 16:9		
Standard 4:3	Adjust aspect ratio to 4:3		
Letterbox	When using 16:9 aspect ratio, a black area appears at the top and bottom of the screen.		
Wide	Translate 4:3 material to 16:9 wide-screen display		
Through	1:1 material, no change to ratio		

👉 **PIP Functions recommended for use in 480p, 720p, 1080i formats.**

TV Adjustment

TV Menu




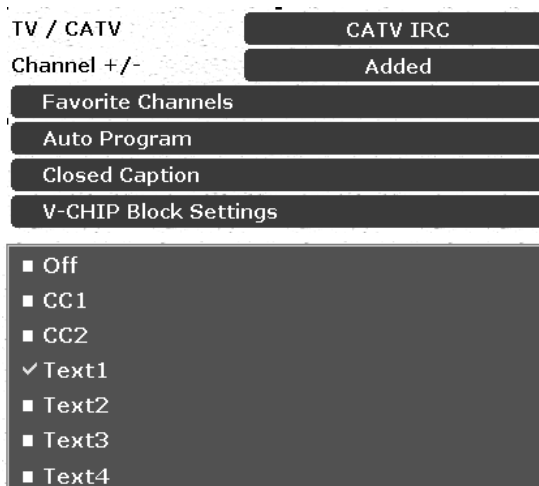
1. Press the **MENU** button on the remote or the **Menu** key on the television to display the main menu.
2. Press the **◀** or **▶** buttons to select **TV** and then press **OK** to enter the submenu.
3. Press the **▲** or **▼** buttons to select an item.
4. In the **TV** menu, after selecting the desired option, and pressing **OK**, use the **◀** or **▶** buttons to adjust the setting or select the options.

Item	Function	Operation	Range
TV/CATV	Select TV or cable system mode	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	TV, CATV
Channel +/-	Add weak or additional channels or delete unwanted channels from television memory	Use the ▶ and ◀ buttons on the remote control or the Volume ▲ and Volume ▼ keys on the television to select it.	Skipped, Added
Favorite Channels	Set or change favorite channels	Set favorite channels using the ◀ or ▶ button, and then press EXIT to save your settings.	Favorite channels 1, 2, 3, 4, 5
Auto program	Tuner will search through all available channels and add them to memory	Press OK on the remote control or INPUT on the television to begin search.	
Closed Caption	Adjust Closed Caption setting	Press OK to enter the sub menu.	CC1, CC2, T1, T2, T3, T4, Off
V-CHIP Block Settings	Adjust V-Chip setting	Press OK to enter the sub menu.	

Setting up Closed Caption

This television is equipped with an internal Closed Caption decoder. Closed Caption is a system which allows conversations, narration, and sound effects in TV programs and home videos to be viewed as captions on the TV screen (see the illustration).

Not all the programs and videos will offer closed captioning. Please look for the  symbol to ensure that captions will be shown.



1. Press the **MENU** button on the remote or the **Menu** key on the television to display the main menu.
2. Press the **◀** or **▶** buttons to select **TV** and then press **OK** to enter the submenu.
3. Press the **▲** or **▼** buttons to select **Closed Caption**.
4. Press **OK** to enter the sub menu, and then choose between available choices for the selected option.

- **Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with your set.**
- **If no TEXT broadcast is being received while viewing in the [TEXT] mode, the screen may become dark and blank for some programs. Should this occur, switch the Closed Caption mode to OFF.**

Setting up V-CHIP

This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.

Restriction of TV programs includes two ratings that contain information about the program: the MPAA rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.

Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

MPAA Rating

Ratings		
Age base	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
	PG-13	PARENTAL STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	X	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.:

MPAA rating (examples)

Example 1

PG-13 in the age-based rating is blocked, this will also automatically block the higher ratings R, NC-17 and X.

Example 2

R in the age-based rating is blocked, this will also automatically block the higher ratings NC-17 and X.

 **The MPAA rating is only age-based.**

TV Parental Guidelines

Rating		Content base				
		FV (Fantasy Violence)	V (Violence)	S (Sexual Situation)	L (Adult Language)	D (Sexually Suggestive Dialog)
Age Base	TV-Y (All children)	V	V	V	V	V
	TV-Y7 (Direct to Older Children)	X	V	V	V	V
	TV-G (General Audience)	V	V	V	V	V
	TV-PG (Parental Guidance Suggested)	V	X	X	X	X
	TV-14 (Parents Strongly Cautioned)	V	X	X	X	X
	TV-MA (Mature Audience Only)	V	X	X	X	V

V: The content rating is always blocked.

X: you can set the content rating.

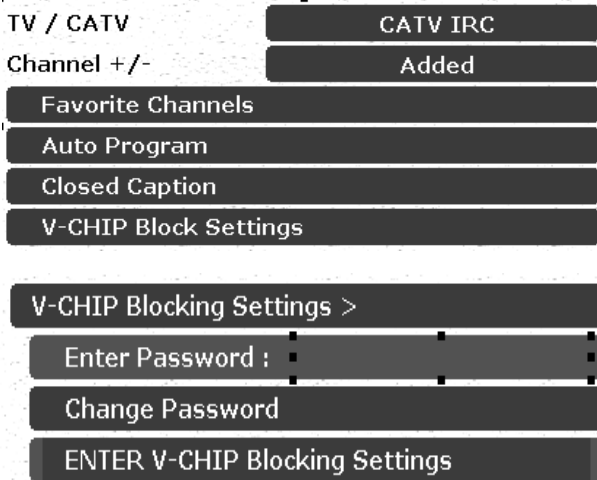
Example

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA. In addition, D, L, S, Settings are blocked automatically and FV can be set manually.

- Age-based ratings can be modified by the content-based ratings, but only in the combinations indicated by an X in the table above.
- Choosing a lower age-based rating blocks the higher age-based ratings regardless of content rating settings.

Adjusting V-Chip Setting

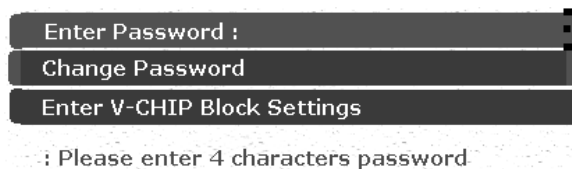
First-Time Setup



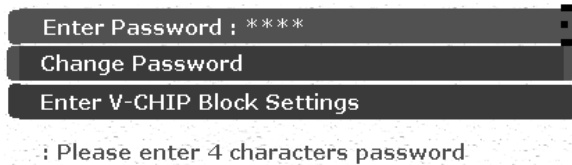
: Please enter 4 characters password

1. Press the **MENU** button on the remote or the **Menu** key on the television to display the main menu.
2. Press the **◀** or **▶** buttons to select **TV** and then press **OK** to enter the submenu.
3. Press the **▲** or **▼** buttons to select **V-CHIP Blocking Settings** and then press **OK** to enter the submenu.
4. Press the **▲** or **▼** buttons to select "OK password", and then input 4-digit password to **OK V-CHIP Blocking Setting** (the factory-preset password is "0" "0" "0" "0").

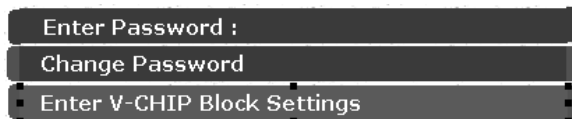
The sequence is as follows:



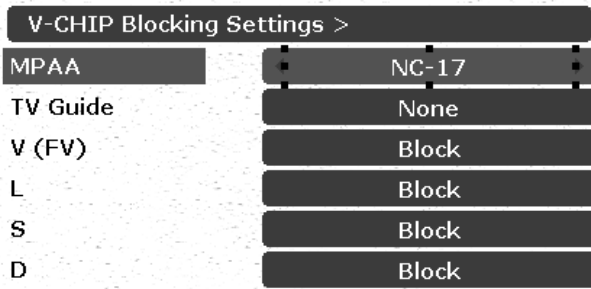
↓ Enter "0" "0" "0" "0"



↓ Enter V-CHIP Blocking Settings

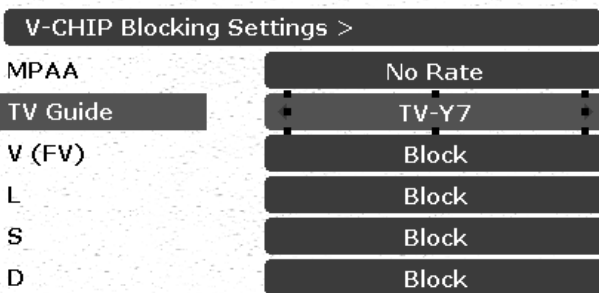


MPAA Rating



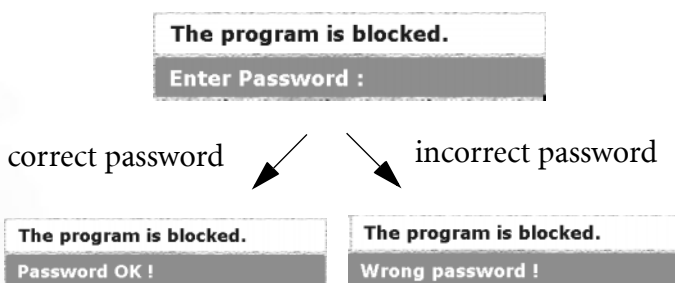
1. After entering V-CHIP Blocking Settings, press the ▲ or ▼ buttons to select **MPAA**.
2. Use the ◀ or ▶ buttons to switch between available choices for the selected option.

TV Guidelines



1. After entering V-CHIP Blocking Settings, press the ▲ or ▼ buttons to select **TV Guide**.
2. Each time you select different settings, it display different V(FV), L, S, D settings.
3. Use the ◀ or ▶ buttons to select **V (FV)**, **L**, **S**, or **D**, and then press the ▲ or ▼ buttons to select **Block** or **Show**.

Canceling the V-CHIP Block Screen While V-CHIP Block is Activated

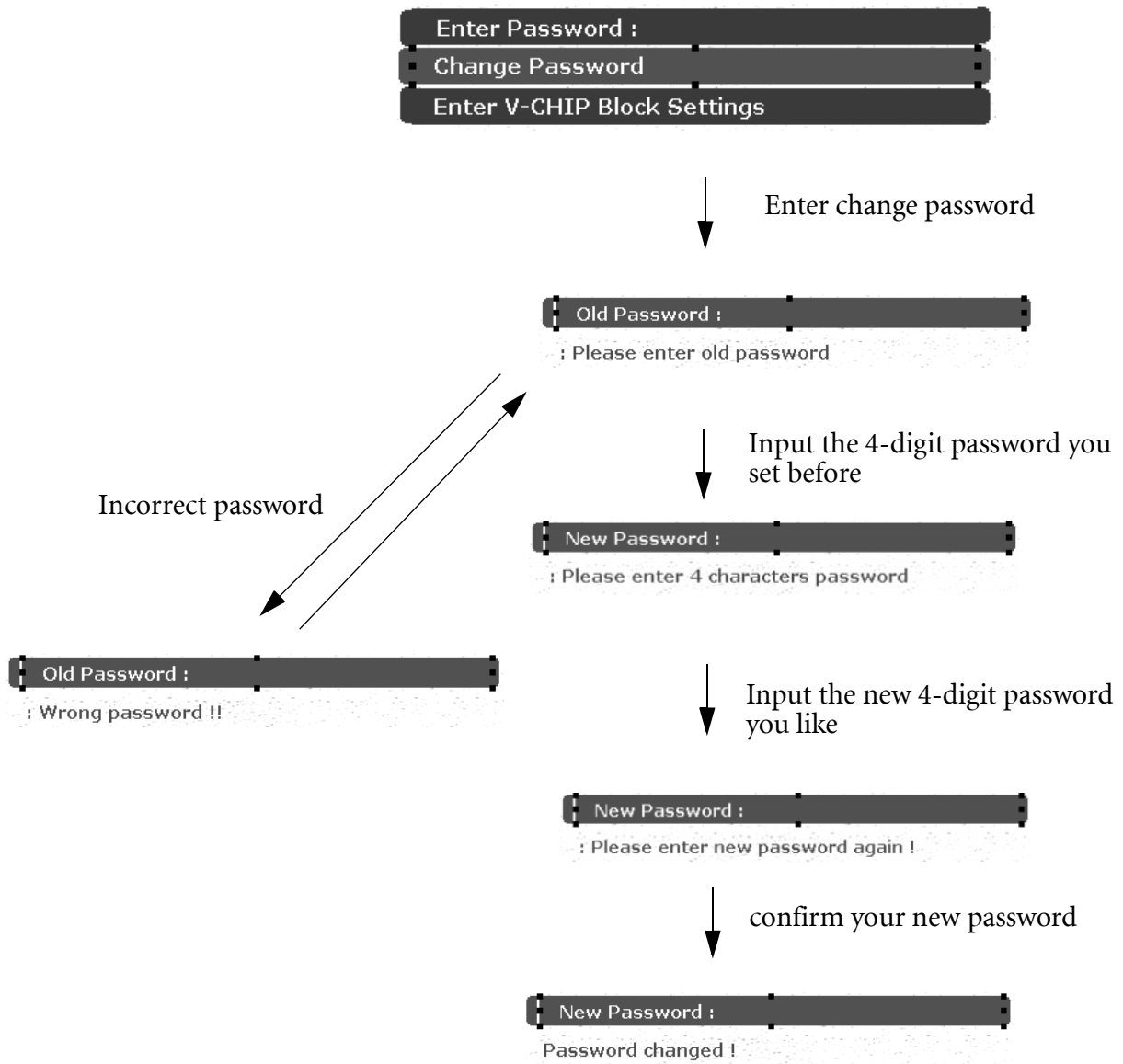


1. "The program is blocked" will appear on the screen if you watch a program that matches the Program Rating data you configured.
2. Enter the 4-digit password by using the channel selection keys. V-CHIP Block will be temporarily canceled. If an incorrect password is entered, it cannot be unblocked.

Changing V-CHIP Blocking Password

1. Press the **MENU** button on the remote control or the **Menu** key on the television to select the **TV** main menu page.
2. Press the ▲ or ▼ buttons to select **V-CHIP Blocking Settings** and then press **OK** to enter the submenu.
3. Press the ▲ or ▼ buttons to select **Change password** and then press **OK** to enter the submenu.
4. Enter the new password using the channel selection buttons.
5. You will be prompted to enter the new password again.
6. Password changed will appear on the screen. Now you have successfully changed the V-CHIP Blocking password.

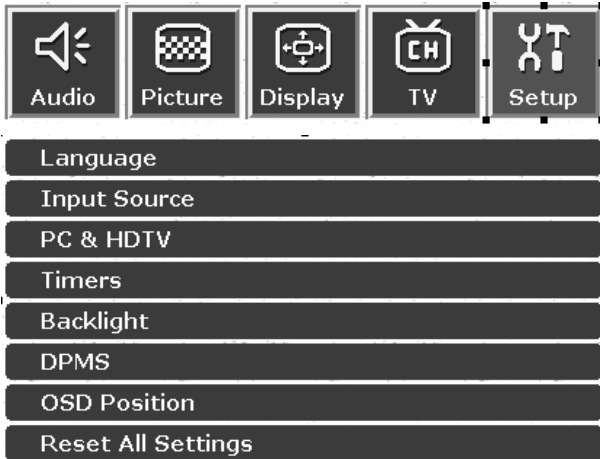
The sequence is as follows:



If you forget the password you set before, you can press "2" "4" "6" "8" when the "old password" information is displayed, then you can set a new password.

Setup

Setup Menu



1. Press the **MENU** button on the remote control or the **Menu** key on the television to display the main menu.
2. Press the ◀ or ▶ buttons to select **Setup** and then press **OK** to enter the submenu.
3. Press the ▲ or ▼ buttons to select an item.
4. In the **Setup** menu, after selecting the desired option, and pressing **OK**, use the ◀ or ▶ buttons to adjust the setting or select the options.

Item	Function	Operation	Range
Language	Select language for the OSD menu	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	English, Espanol, Francais
Input source			
Video	Display input signal information	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	TV, Video1, Video2, S-Video1, S-Video2
Graphics			PC, Component, DVI
PC & HDTV			
Adjust RGB levels for PC or DTV			
Auto	Automatically adjust frequency, phase, H. position and V. position	Use the OK button on the remote control or the INPUT button on the television to select it.	
Frequency	Adjust signal source frequency	Use the ◀ or ▶ buttons to adjust	-15 to 15
Phase	Adjust signal source phase	Use the ◀ or ▶ buttons to adjust	0 to 31
H. Position	Adjust horizontal position of the image	Use the ◀ or ▶ buttons to adjust	-30 to 30
V. Position	Adjust vertical position of the image	Use the ◀ or ▶ buttons to adjust	-30 to 30
Timers			
Sleep (Mins)	Set Sleep to automatically turn television off	Use the ◀ or ▶ buttons to select different setting values.	0, 30, 60, 90, 120, 150, 180 minutes
OSD Off (Secs)	Set duration of the OSD menu	Use the ◀ or ▶ buttons to select different setting values.	0 to 60 seconds

Backlight	Adjust backlight intensity	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	Dark, Normal, Bright
DPMS	Protect screen and enter powersaver mode when no signal input detected	Use the ▲ and ▼ buttons on the remote control or the Channel ▲ and Channel ▼ keys on the television to select it.	On, off
OSD position			
Horizontal	Adjust the position of OSD menu on the screen	Use the ◀ or ▶ buttons to select it.	0 to 20
Vertical		Use the ◀ or ▶ buttons to select it.	0 to 20
Reset All Settings	Restore all settings to default values	Press the OK button on the remote control or the INPUT button on the television to execute it.	

8 Troubleshooting

Before calling a service center, attempt the following steps to diagnose the problem.

TV

Symptoms	Possible Causes
Power does not turn ON	Ensure whether the power plug is securely inserted into the receptacle.
There is no picture or sound	<ul style="list-style-type: none"> • Ensure the television power is ON (Indicated by the green LED on the front of the unit) • Reception other than those of broadcasting stations can be considered. • Check for connection to wrong terminal or for wrong input mode. • Ensure the communication cable is properly connected between the Video Source and the television.
There are spots on the screen	Check whether your AV equipments is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
Degraded colors or tints	Check whether all image adjustments have been properly adjusted.
Improper screen position or size	Check whether screen position and size have been properly adjusted.
The image appears distorted	Ensure the television's aspect ratio is properly set.
The image is purple	Check the "Component" or "RGB" setting in the television and set it for the appropriate signal type.
The image appears too bright, and there is a loss of definition in the brightest areas of the image.	<ul style="list-style-type: none"> • Check whether the contrast setting is too high. • The DVD player is set for a high-level output. • The video signal has not been terminated properly somewhere in the system.
The image appears too 'washed out', or the darkest areas of the image appear too bright.	<ul style="list-style-type: none"> • Check whether Brightness is set too high. • The DVD player may be set at too high a brightness level.
If "xxx searching" appears, the image or signal cannot be produced by display.	<ul style="list-style-type: none"> • Check the cable for disconnection. • Check for connection to proper terminal or for proper input mode.
Power indicator lamp appears flashes blue	<ul style="list-style-type: none"> • Check the cable for disconnection. • Check whether the screen is on power saving status (DPMS)
"Out of range" appears	<ul style="list-style-type: none"> • Check whether the input signal is acceptable to the display.
Remote control does not function properly	<ul style="list-style-type: none"> • Check for incorrect battery orientation. • Check for dead batteries • Check for distance and angle from the television. • Check whether remote control is properly being pointed at the television's remote control sensor window. • Check for any obstacle between the remote control and the remote control sensor window. • Check that the remote sensor window is not under strong fluorescent lighting.

There is no picture or sound, just noise	<ul style="list-style-type: none"> • Make sure the antenna cable is properly connected. • Consider whether TV signals are being properly received.
Picture is not clear	<ul style="list-style-type: none"> • Make sure the antenna cable is properly connected. • Consider whether TV signals are being properly received.
No sound	<ul style="list-style-type: none"> • Check whether you have selected Mute for Audio setting. • Make sure the volume is not set to minimum. • Make sure that headphones are not connected. • Check cables for disconnection.
Some lines occur at the bottom of pictures when playing VHS tapes	VHS tapes sometimes can't provide stable pictures when playing or pausing. And the unstable pictures may cause the television to display incorrectly. If this situation happens, please press "i" key on the remote controller to let the television check the signal again and display the pictures correctly.
The video picture is abnormal	Press "i" key on the remote control to force the television to check the signal system again and auto select the correct video system.
The PC picture is abnormal	Press the "i" key on the remote control. If this causes no improvement, try a few more time. If the picture still does not improve, enter "Setup" in the OSD menu, and select PC & HDTV to adjust phase, H.position or V. position.

Antenna

Symptoms	Possible Causes
The picture is not sharp or the picture moves	<ul style="list-style-type: none"> • The reception may be weak. • The state of the broadcast may also be bad. • Make sure the outside antenna is not disconnected. • Make sure the antenna is facing the right direction.
The picture is doubled or tripled	<ul style="list-style-type: none"> • Make sure the antenna is facing the right direction. • There may be reflected electric waves from mountains or buildings.
The picture is spotted	<ul style="list-style-type: none"> • There may be interference from automobiles, trains, high voltage lines, neon lights, etc. • There may be interference between the antenna cable and power cable. Try positioning them further apart.
There are stripes on the screen or colors fade	<ul style="list-style-type: none"> • Is the television receiving interference from other devices? Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and cellular phones may also cause interference. • Use the television as far apart as possible from devices that may cause possible interference.

Specifications

Model	DV2680	DV3070	DV3080
Size	26 inches	30 inches	
Aspect ratio	Wide-screen		
Resolution	1280 x 768		
Pitch	0.4425 x 0.4425 (mm)	0.5025 x 0.5025 (mm)	
Brightness	600 nit	500 nit	600 nit
Contrast ratio	600:1	500:1	600:1
Response time	16ms	16.6ms	16ms
Amplifier	Speaker 10W x 2		
Signal inputs	TV	TV tuner x1	
	Video	AV in (RCA pin) x 2 S-VIDEO (Mini din 4 pin) x 2 Composite image (RCA pin) x1 Audio input (L/R, RCA pin) x 6	
	PC & HDCP	DVI/HDCP input DVI-D Connector x1 PC D-sub (Mini D-sub 15 pin) x 1 DVI audio input RCA (L/R) x 2 PC audio (M3.5 jack) x 1	
Signal outputs	(None)	Audio output (L/R, RCA) x1, Woofer x 1	
Video Systems	NTSC, PAL, SECAM		
Broadcasting Systems	PAL, SECAM		
Scan modes	480i, 480p, 720p, 1080i		
PC horizontal frequency	31.5 ~ 60 kHz		
PC vertical frequency	60 ~ 75Hz		
Power supply	AC 100-240 V, 50/60 Hz		

 Design and specifications are subject to change without notice.

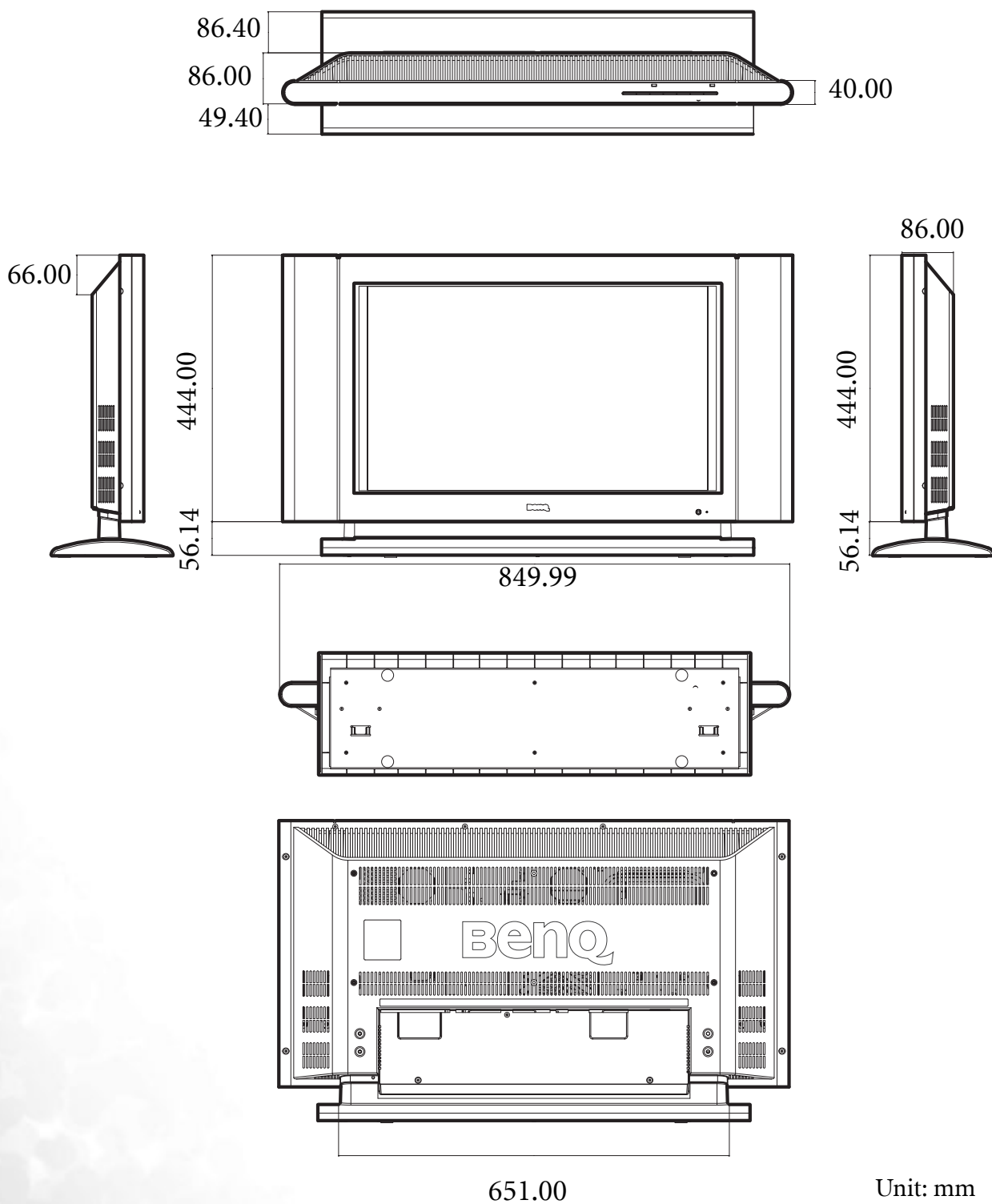
10 Supported Operating Modes

Resolution	Horizontal Freq. (khz)	Vertical Freq. (Hz)	Bandwidth (Mhz)	Notes
720×400	31.47	70.08	28.32	DOS
640×480	31.47	60.00	25.18	DOS
640×480	37.50	75.00	31.50	VESA
640×480	37.86	72.80	31.50	VESA
800×600	37.88	60.32	40.00	VESA
800×600	46.86	75.00	49.50	VESA
800×600	48.08	72.19	50.00	VESA
1024×768	48.36	60.00	65.00	VESA
1024×768	56.48	70.10	75.00	VESA
1024×768	60.02	75.00	78.75	VESA

- ☞ • We suggest you set the signal resolution as listed above. If not, it may not show fine detail with sufficient clarity.
- If picture is abnormal when setting modes are changed, press the "i" key to restore.

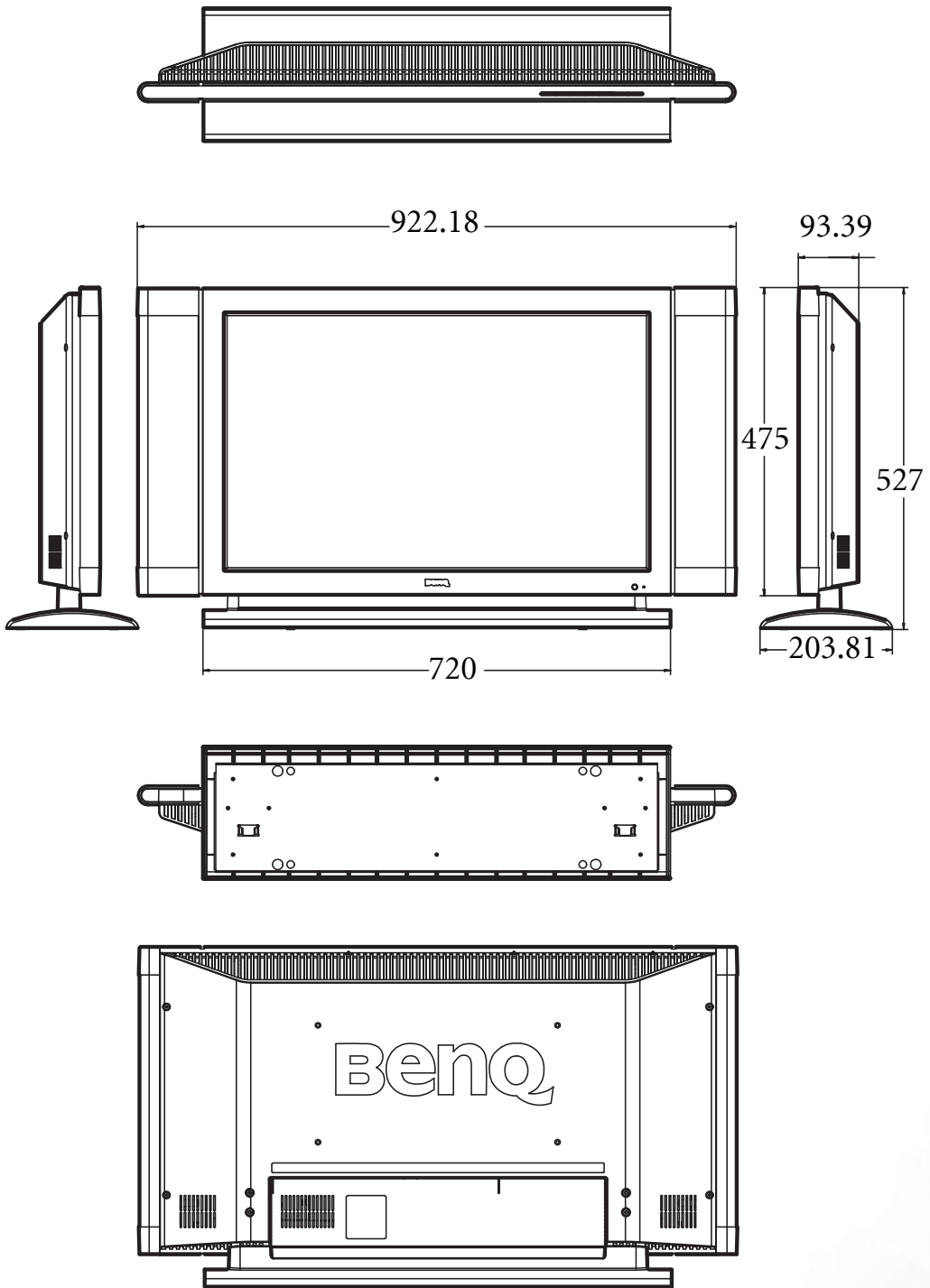
11 Dimensional Drawings

DV2680



Unit: mm

DV3070/DV3080



Unit: mm

<Memo>

