

# User's Manual



**LCD Color Monitor**

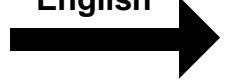
**AccuSync™ PV32**

**AccuSync™ PV40**

**AccuSync™ PV46**



English



English



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# Important Information

## WARNING



TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.



REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## CAUTION

**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.



2. 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 distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: *"How to Identify and Resolve Radio-TV Interference Problems."* This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

## Canadian Department of Communications Compliance Statement

DOC: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60950-1.

## FCC Information

1. Use the attached specified cables with the ASPV32-AVT, ASPV40-AVT, or ASPV46-AVT color monitor so as not to interfere with radio and television reception.
  - (1) Please use the supplied power cord or equivalent to ensure FCC compliance.
  - (2) Please use the supplied shielded video signal cable, 15-pin mini D-SUB to 15-pin mini D-SUB.

# Safety Precautions and Maintenance

## Safety Precautions and Maintenance

**FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE MONITOR:**

- **DO NOT OPEN THE MONITOR.** There are no user-servicable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks. Refer all servicing to qualified service personnel.
- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- When operating the monitor with its AC 125-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used. The power supply cord you use must have been approved by and comply with the safety standards of your country. (Type H05VV-F 3G 1mm<sup>2</sup> should be used in Europe)
- Do not place any objects onto the monitor and do not use the monitor outdoors.
- **The lamps in this product contain mercury. Please dispose according to state, local, or federal law.**
- Do not bend, crimp or otherwise damage the power cord.
- Do not use monitor in high temperature, humid, dusty, or oily areas.
- Do not cover vent on monitor.
- If monitor or glass is broken, do not come in contact with the liquid crystal.
- Handle broken glass with care.
- Allow adequate ventilation around the monitor so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources. Do not put anything on top of monitor.
- The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet that is easily accessible.
- Handle with care when transporting. Save packaging for transporting.
- Keep the vent holes on the back of the product clean of dirt and dust. It is recommended to wipe vent holes with a soft cloth a minimum of once per month.



## CAUTION

Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled on, or objects have fallen into the monitor.
- If the monitor has been exposed to rain or water.
- If the monitor has been dropped or the cabinet damaged.
- If the monitor does not operate normally by following operating instructions.

# Recommended Use

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## CAUTION

**CORRECT PLACEMENT AND ADJUSTMENT OF THE MONITOR CAN REDUCE EYE, SHOULDER AND NECK FATIGUE. CHECK THE FOLLOWING WHEN POSITIONING THE MONITOR:**

- For optimum performance, allow 20 minutes for warm up.
- Rest your eyes periodically by focusing on an object at least 5 feet away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections.
- Clean the LCD monitor surface with a lint-free, nonabrasive cloth. Avoid using any cleaning solution or glass cleaner.
- Adjust the monitor's brightness and contrast controls to enhance readability.
- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (afterimage effects).
- Get regular eye checkups.

## Ergonomics

To realize the maximum ergonomic benefits, we recommend the following:

- Use the preset Size and Position controls with standard signals.
- Use the preset Color Setting.
- Use non-interlaced signals.
- Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue due to insufficient contrast.

For more detailed information on setting up a healthy work environment, refer to the following document:

*American National Standard for Human Factors Engineering of Visual Display Terminal Workstations ANSI-HFS Standard No. 100-1988*

Published by:

The Human Factors and Ergonomics Society P.O. Box 1369,  
Santa Monica, California 90406.

## Cleaning the LCD Panel

- When the liquid crystal panel becomes dusty or dirty, wipe gently with soft cloth.
- Do not rub the LCD panel with coarse material.
- Do not apply pressure to the LCD surface.
- Do not use OA cleaner. OA cleaner will cause deterioration or discolor the LCD surface.

## Cleaning the Cabinet

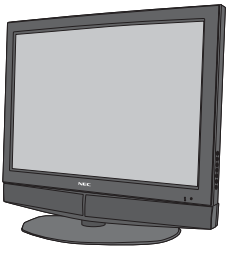
- Unplug the power supply
- Gently wipe the cabinet with a soft cloth
- To clean the cabinet, dampen the cloth with a neutral detergent and water, wipe the cabinet and follow with a dry cloth.

**NOTE:** The surface of the cabinet is composed of plastic. DO NOT clean with benzene thinner, alkaline detergent, alcoholic system detergent, glass cleaner, wax, polish cleaner, soap powder, or insecticide. Rubber or vinyl should not be in contact with the cabinet for an extended period of time. These types of fluids and materials can cause the paint to deteriorate, crack or peel.

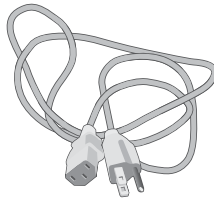


# Package Contents

English



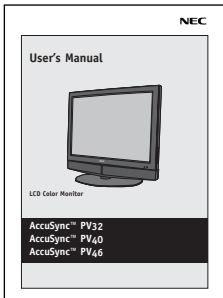
LCD Monitor



Power Cord x 1



VGA Cable



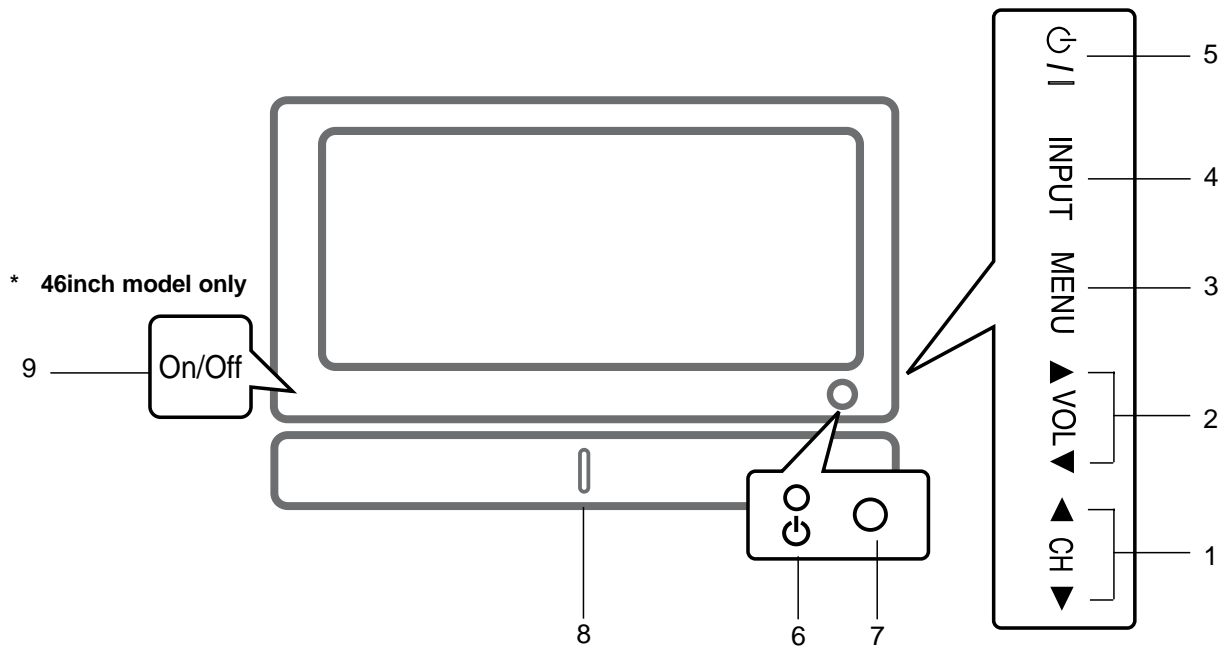
User's Manual



Wireless Remote Control  
and AAA Batteries

# Part Names and Functions

## Control Panel



### 1. ▲ / ▼ (Channel Up/Down)

Selects a Channel or a menu item  
Switches the set on from standby.

### 2. ◀ / ▶ (Volume Up/Down)

Adjusts the volume.  
Adjusts menu settings.

### 3. MENU

Selects a menu.

### 4. INPUT

Select input source: **DTV, TV, AV1, AV2, AV3, S-Video, Component, PC-RGB, HDMI1, HDMI2, HDMI3 (HDMI3 available for 40/46 inch models only).**

Switches the set on from standby.  
Select on-screen menu setting.

### 5. POWER (⏻)

Switches the set on from standby or to standby from on.

### 6. POWER/STANDBY INDICATOR (Ⓞ)

Glows red in standby mode.  
Glows blue when the set is switched on.

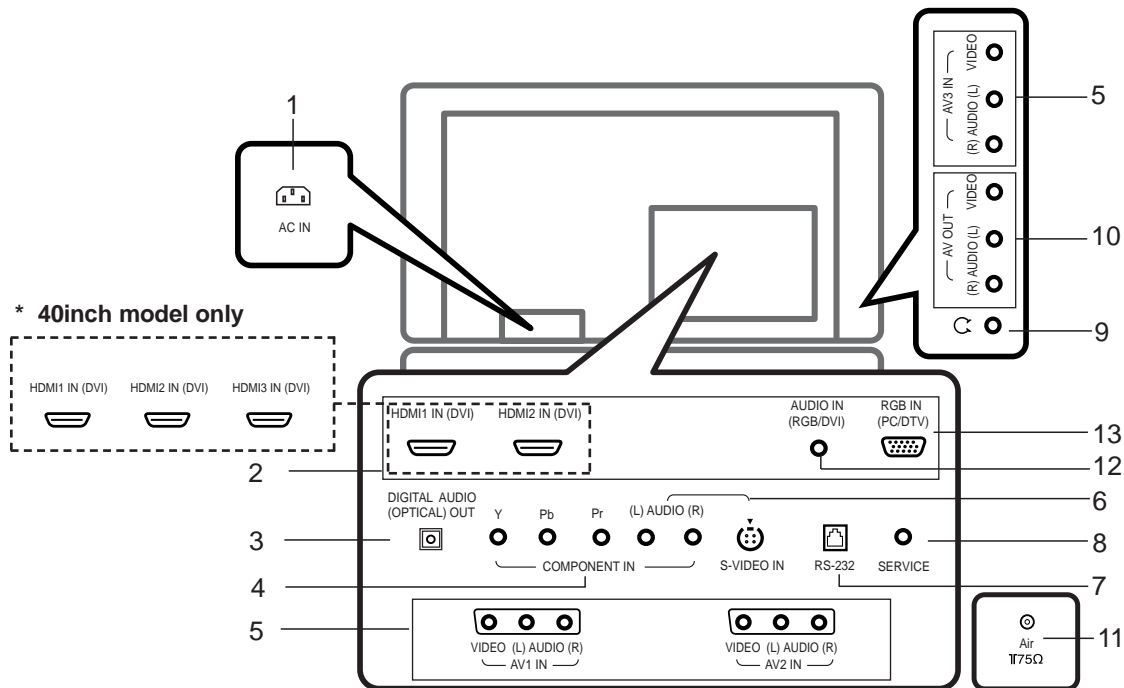
### 7. REMOTE CONTROL SENSOR

### 8. Front Light LED (32inch model only)

**Front Light LED & POWER (Ⓞ)  
(40/46inch model only)**

### 9. MAIN POWER (⏻) (46inch model only)

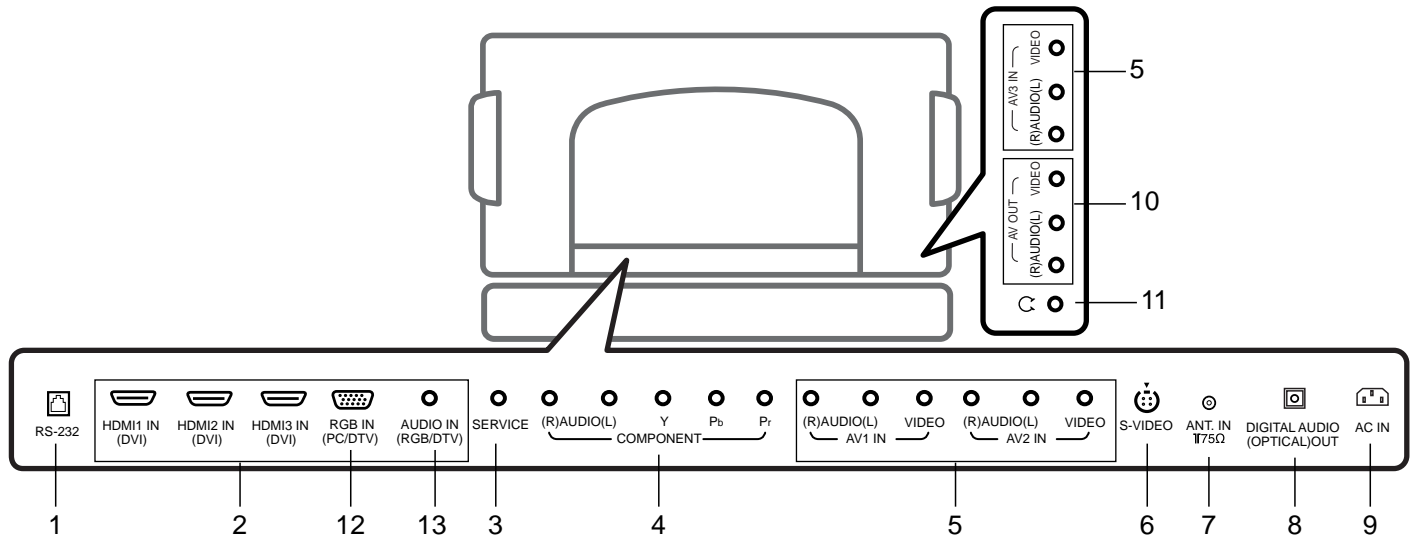
Switches the set on or off.



- 1. AC IN**  
Connects with the supplied power cord.
- 2. HDMI1 IN (DVI) / HDMI2 IN (DVI) / RGB IN (PC/DTV) / AUDIO IN (RGB/DVI)**  
Connect the Digital output of a PERSONAL COMPUTER to this socket.
- 3. DIGITAL AUDIO (OPTICAL) OUT**  
Connect digital audio from various types of equipment.  
**NOTE:** In standby mode, these ports will not work.
- 4. COMPONENT IN (480i / 480p / 720p / 1080i)**  
Connecting equipment such as a DVD player, HDTV device, or Laser disc player.
- 5. AUDIO/VIDEO IN**  
Connect the audio/video output of the VCR to AV sockets of the set.
- 6. S-VIDEO IN**  
S-Video input
- 7. RS-232 PORT**  
Connect to the RS-232 port on a PC.
- 8. SERVICE ONLY INPUT**
- 9. HEADPHONE OUTPUT**
- 10. AUDIO/VIDEO OUT**  
Connect an external amplifier or add a subwoofer to your surround sound system.
- 11. "F" Connector**  
Antenna connection.
- 12. Mini Stereo Input**  
Audio connection for HDMI and VGA inputs.
- 13. VGA Connector**  
Connect the Analog output of a personal computer to this socket.

# Part Names and Functions - *continued*

## Terminal Panel - APV46



### 1. RS-232 PORT

Connect to the RS-232 port on a PC.

### 2. HDMI1 IN (DVI) / HDMI2 IN (DVI) / HDMI3 IN (DVI) / RGB IN (PC/DTV) / AUDIO IN (RGB/DTV)

Connect the set output socket of the PERSONAL COMPUTER to this socket.

### 3. SERVICE ONLY INPUT

### 4. COMPONENT IN (480i / 480p / 720p / 1080i)

Connecting equipment such as a DVD player, HDTV device, or Laser disc player.

### 5. AUDIO/VIDEO IN

Connect the audio/video output of the VCR to AV sockets of the set.

### 6. S-VIDEO IN

S-Video input

### 7. "F" Connector

Antenna connection.

### 8. DIGITAL AUDIO (OPTICAL) OUT

Connect digital audio from various types of equipment.  
**NOTE:** In standby mode, these ports will not work.

### 9. AC IN

Connects with the supplied power cord.

### 10. AUDIO/VIDEO OUT

Connect an external amplifier or add a subwoofer to your surround sound system.

### 11. HEADPHONE OUTPUT

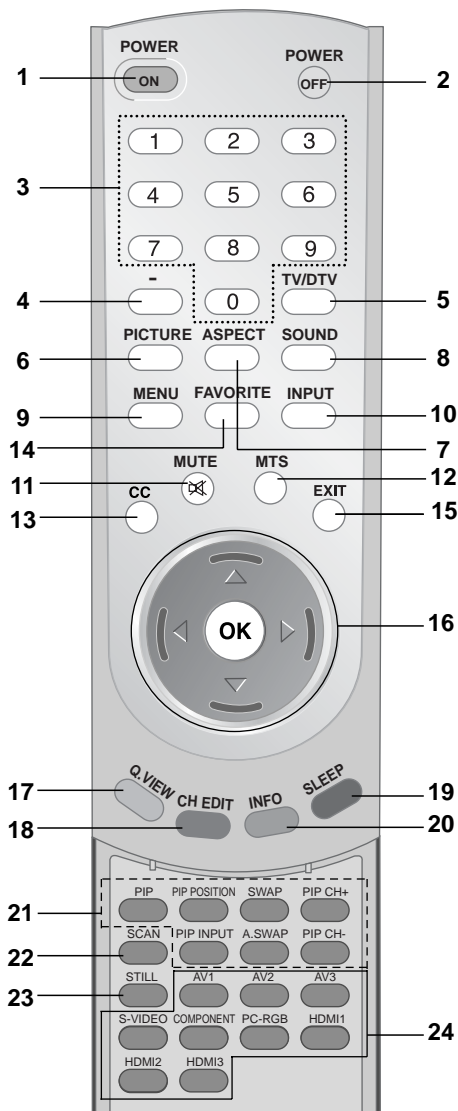
### 12. VGA Connector

Connect the Analog output of a personal computer to this socket.

### 13. Mini Stereo Input

Audio connection for HDMI and VGA inputs.

## Remote Control Functions



- 1. POWER (ON)**  
Switches the power on.  
\* If the Power Indicator on the display is not glowing, then no controls will work.
- 2. POWER (OFF)**  
Switches the power off.
- 3. KEYPAD**  
Input Channel numbers.
- 4. - (DASH)**  
Used to enter program number for multiple program channels such as 2-1, 2-2, etc.
- 5. TV/DTV**  
Choose between Analog and Digital TV (DTV) modes.
- 6. PICTURE**  
Recalls preferred picture settings.
- 7. ASPECT**  
Changes aspect ratio of the image being displayed.
- 8. SOUND**  
Recalls preferred sound settings.
- 9. MENU**  
Activates menu.
- 10. INPUT**  
Selects input source.
- 11. MUTE**  
Mutes audio output.
- 12. MTS**  
Multi-track sound system selection.
- 13. CC**  
Closed captioning.
- 14. FAVORITE**  
Selects favorite channel.
- 15. EXIT**  
Exits each mode.
- 16. CHANNEL UP/DOWN (▲ / ▼)**  
Selects a channel or a menu item.  
Switches the set on from standby.  
**VOLUME UP/DOWN (◀ / ▶)**  
Adjusts the volume.  
Adjusts menu settings.  
**OK**  
Accepts your selection or displays the current mode.
- 17. Q.VIEW**  
Returns to previous channel.
- 18. CH EDIT (Digital Mode only)**  
Displays channel edit menu.
- 19. SLEEP**  
Sets the sleep timer.
- 20. INFO (Digital Mode only)**  
Displays information on top of the screen during DTV viewing.
- 21. PICTURE IN PICTURE mode**  
**PIP**  
Switches the sub picture On or Off.  
**PIP POSITION**  
Relocates the sub picture in clockwise direction.  
**SWAP**  
Alternates between main and sub picture.  
**PIP CH +/-**  
Selects a channel for the sub picture.  
**PIP INPUT**  
Selects the input mode for the sub picture.  
**A.SWAP**  
PIP mode - main and sub picture audio select.
- 22. SCAN (TV mode only)**  
Switches on the channel scan mode through 9 sub pictures.
- 23. STILL**  
Freezes picture.
- 24. INPUT SELECT**  
Choose the input source.

# Part Names and Functions - *continued*

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## ■ Battery Installation

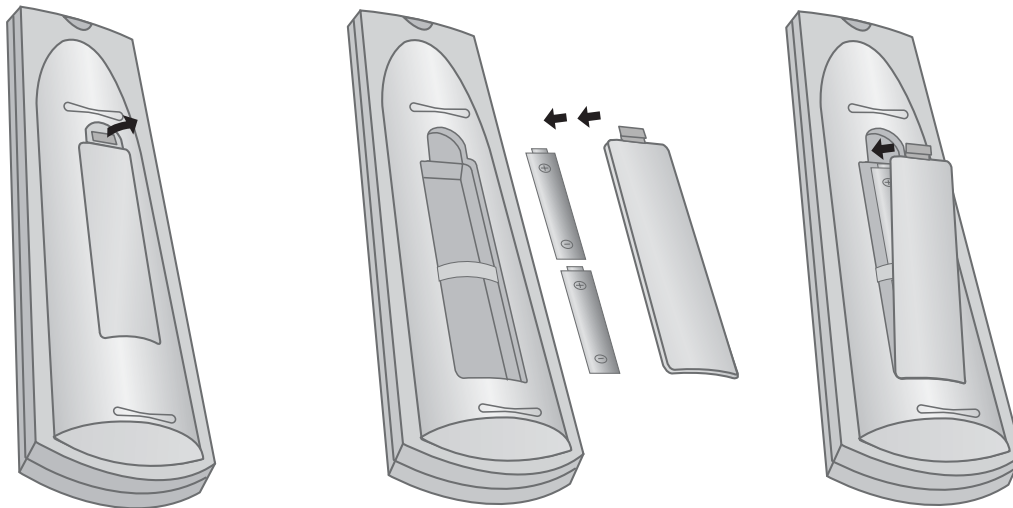
The remote control is powered by two AAA batteries.

1. To insert batteries, turn the remote control handset over and remove the battery cover.
2. Put the two batteries into the compartment, observing battery polarity.
3. Replace the cover.

To avoid damage from possible battery leakage, remove the batteries if the remote will not be used for an extended period time. Do not mix old and new batteries.

Do not mix battery types.

Always dispose of batteries properly.



Additional equipment (VCRs, camcorders, etc.) can be connected to the set. Check with your equipment manufacturer's instructions for specific information. Unplug the set and all equipment before connecting to avoid damage to the set or equipment.

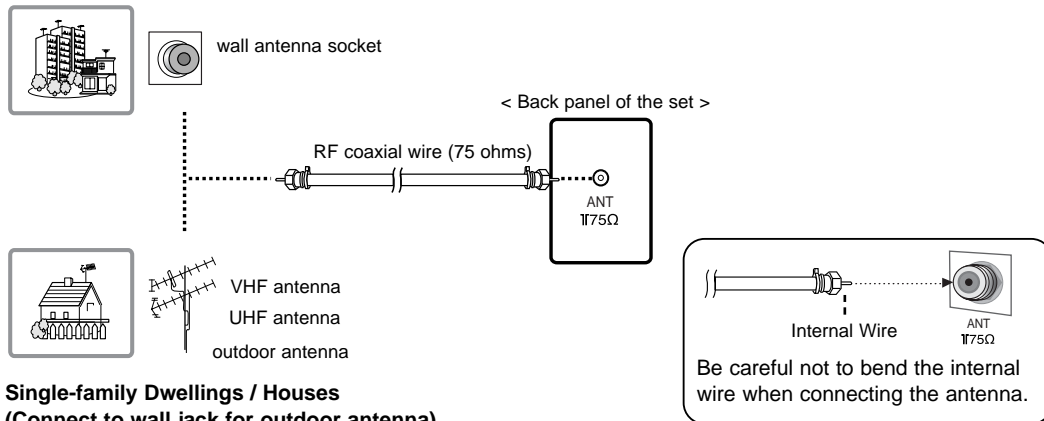
Items shown may be different than actual equipment.

## ■ Connect Antenna

To connect an Antenna or Cable Service without a Cable Box Connection.

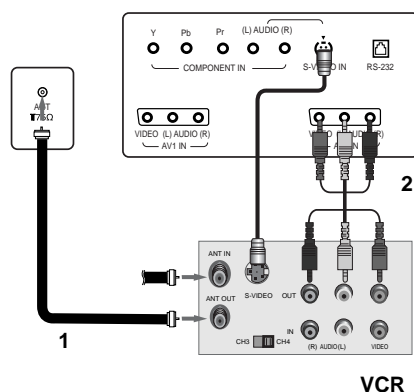
For optimum picture quality, adjust antenna direction if needed.

### Multi-family Dwellings / Apartments (Connect to wall antenna socket)



### Single-family Dwellings / Houses (Connect to wall jack for outdoor antenna)

## ■ Connect VCR



When in Video mode, the set will automatically revert to TV mode if the CH ▲ / ▼ button or number buttons are pressed.

### Connection 1

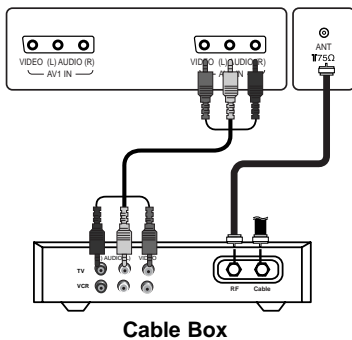
Set VCR switch to 3 or 4 and then tune TV to the same channel number.

### Connection 2

1. Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. When connecting the TV to a VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Use the INPUT button on the remote control to select AV1, AV2 or AV3. (If connected to S-VIDEO on back panel, select the S-Video external input source.)

# Connections - continued

## ■ Connect Cable TV



Subscription to a local cable TV service and cable converter required. For further cable TV information, contact a local cable service provider.

### Connection 1

1. Select 3 or 4 with channel switch on cable box.
2. Tune the TV channel to the same selected output channel of cable box.
3. Select channels at the cable box or with the cable box remote control.

### Connection 2

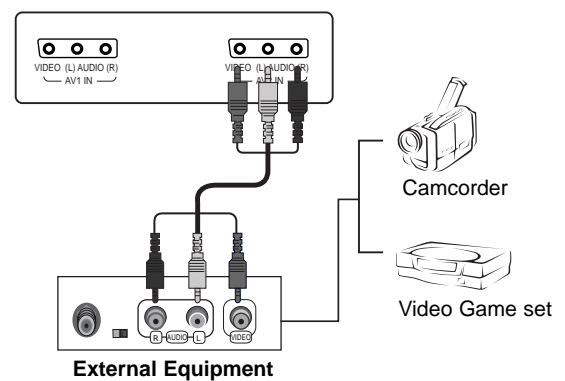
1. Connect the audio/video output jacks on Cable Box to the corresponding input jacks on the TV. When connecting the TV to Cable Box, match the jack color (Video = yellow, Audio Left = white, and Audio Right = red).
2. Use the INPUT button on the remote control to select AV1, AV2 or AV3.
3. Select channels with the cable box remote control.

## ■ Connect External AV Source

Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV. When connecting the TV to external A/V equipment, match the jack color (Video = yellow, Audio Left = white, and Audio Right = red).

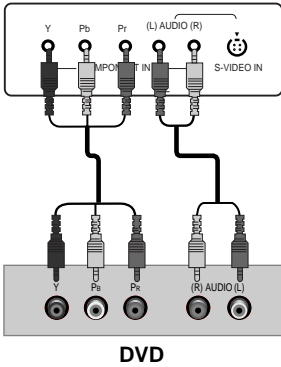
### Viewing Setup

1. Turn on the external A/V equipment.
2. Use the **INPUT** button on the remote control to select **AV1**, **AV2** or **AV3**.
3. Operate the corresponding external equipment. Refer to external equipment operating guide.





## ■ Connect DVD Player



Connect the DVD video outputs to the COMPONENT (Y, Pb, Pr) jacks and connect the DVD audio outputs to the AUDIO jacks.

### Viewing Setup

1. Turn on the DVD player, insert a DVD.
2. Use the **INPUT** button on the remote control to select **Component**.

3. Refer to the DVD player's manual for operating instructions.

### • Component Input ports

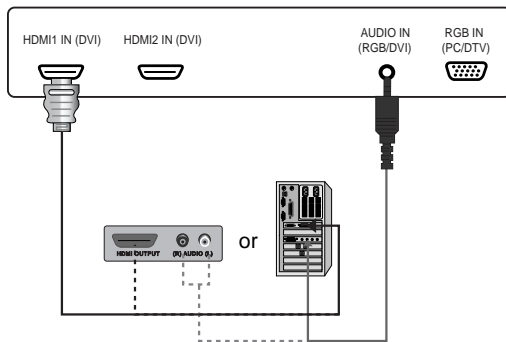
To get better picture quality, connect a DVD player to the component input ports as shown.

Component input signal : 480i / 480p / 720p / 1080i

Component input on Set	Y	Pb	Pr
------------------------	---	----	----

Video Output on DVD	Y	PB	PR
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	PB	PR

## ■ Connect HDMI(DTV)



This TV SET can receive High-Definition Multimedia Interface (HDMI) or Digital Visual Interface (DVI) signals.

Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the particular **HDMI INPUT** socket of the set.

Connect the audio cable from the PC to the **AUDIO INPUT** sockets of the set.

Press the **INPUT** button to select **HDMI1**, **HDMI2**, or **HDMI3 (APV40/46 only)**.

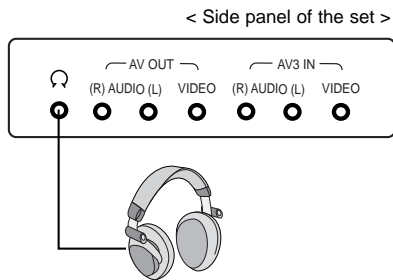
Switch on the HDMI device, and the HDMI screen appears on the set.

HDMI-DTV input signal: 480p-60Hz, 720p-50Hz, 720p-60Hz, 1080i-50Hz, 1080i-60Hz.

HDMI Interface with HDCP (High Definition Copy Protection) enables all-digital rendering of video without the losses.

# Connections - continued

## ■ Connect Headphones



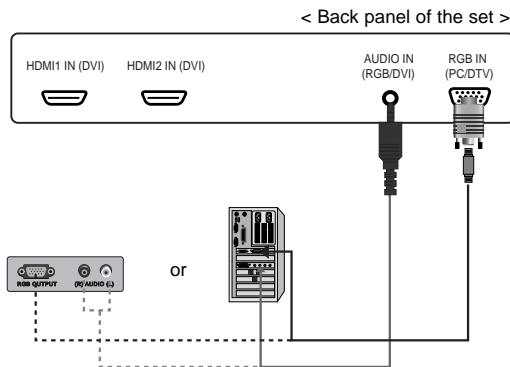
Insert the headphone plug to the headphone socket of the set.

You can listen to the sound through the headphone. To adjust the headphone volume, press the ◀ / ▶ button.

Control the volume of the headphone to the appropriate level.

Hearing for a long time with the high volume will damage the eardrum.

## ■ Connect PC (DTV)



The set can be used as a PC monitor.

Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the **RGB IN** socket of the set.

Connect the audio cable from the PC to the **AUDIO IN** sockets of the set.

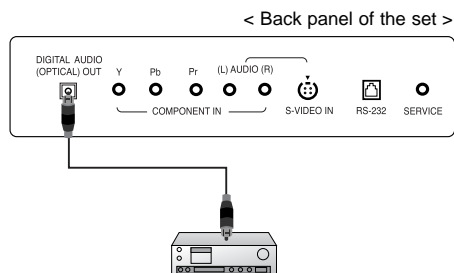
Press the **INPUT** button to select **PC-RGB**.

Switch on the PC, and the PC screen appears on the Menu.

Select the **AUTO PROGRAM** function in the PC setup Menu to adjust the screen automatically.

RGB-DTV input signal: 480p-60Hz, 720p-50Hz, 720p-60Hz, 1080i-50Hz, 1080i-60Hz.

## ■ Connect Digital Audio



Send the set's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical).

**Caution:** Do not look into the optical output port. Looking at the laser beam will damage your vision.

### To connect

Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.

Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.

## ■ On and Off

After the set is properly connected to the correct power outlet with the proper rating, it enters the standby mode.

When the set is in standby mode, press the **POWER**, or the **▲ / ▼** buttons on the remote control to switch it on fully.

Press the **POWER** button on the remote control to go back into the standby mode.

## ■ Volume Adjustment

Press the **◀ / ▶** button to adjust the volume.

Press the **MUTE** button to silence the audio.  
Press **MUTE**, **◀ / ▶**, **SOUND** or the **MTS** buttons to cancel.

## ■ On Screen Language Selection

Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then use **▲ / ▼** button to select your desired **language**.

All the text of the on screen displays will appear in the selected language.

Repeatedly press the **MENU** button to return to normal TV viewing.

# Basic Operation - *continued*

## ■ Menu

Use the on screen display menu to access various functions and features and to change settings of the set.

Press the **MENU** button and then use **▲ / ▼** button to display each menu.

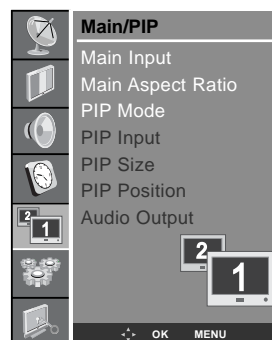
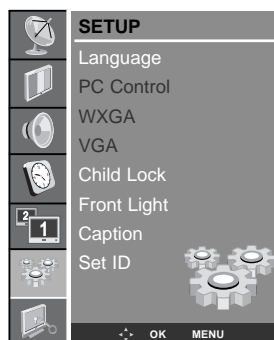
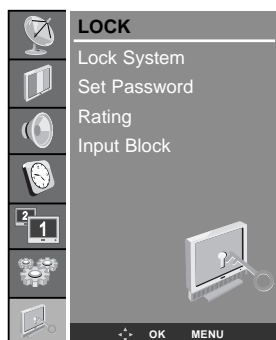
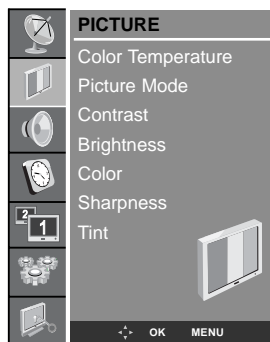
Press the **▶** button and then use **▲ / ▼** button to select a menu item.

Press the **▶** button to display the sub menu.

Change the setting of an item in the sub menu with **▲ / ▼** or **◀ / ▶**.

Move to the previous menu using the **◀** button and move to the next menu using the **▶** button.

**NOTE:** Menus may vary according to input mode.



## ■ Channel Programming

For the Auto Program function to work properly, the TV must be receiving signals either from a cable-type source or over the air.

Press the **MENU** button and then use **▲ / ▼** button to select the **STATION** menu.

Press the **▶** button and then use **▲ / ▼** button to select **DTV (Digital TV) Antenna Select**.

Press the **▶** button and then use **▲ / ▼** button to select **Antenna or Cable**.

Press the **OK** button to save.

Press the **▲ / ▼** button to select **Auto Program**.

Press the **▶** button and then use **▲ / ▼** button to select **System**.

Press the **◀ / ▶** button to select **Analog, Digital, ALL**.

ALL: Digital & Analog search

Digital: Digital search only

Analog: Analog search only

Press the **▲ / ▼** button to select **Search**.

Press the **▶** button to begin the channel search.

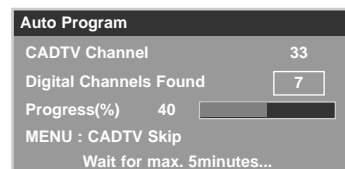
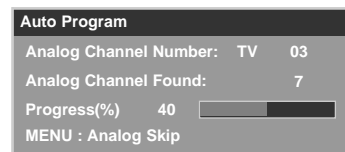
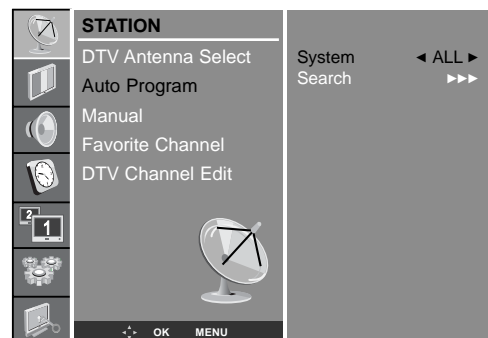
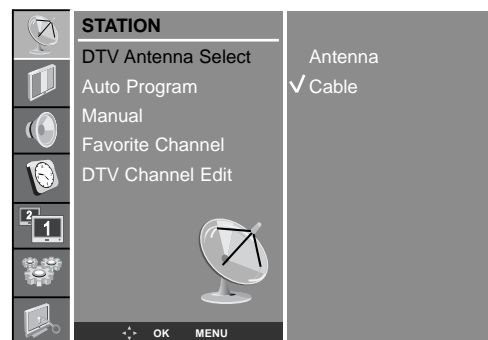
- Wait for auto channel to complete the channel search cycle before choosing a channel. The TV scans first for over-the-air channels and then channels provided by a cable service.

**NOTE:** When the channel search is complete, use the **▲ / ▼** buttons to review the stored channels.

If you press the **MENU** button while scanning, the Auto Program function will stop and only those channels scanned up to that point will remain in memory.

Auto channel function can store only the channels which are being scanned at that time.

**NOTE:** The “**Enter Password**” appears on screen a password in required to gain access to STATION menu, if the Look System turned on.



# Basic Operation - *continued*

## ■ Add/Delete Channels

You can manually add or delete individual channels. The channel being displayed is either added to or erased from memory.

Press the **MENU** button and then use **▲ / ▼** button to select the **STATION** menu.

Press the **▶** button and then use **▲ / ▼** button to select **Manual**.

Press the **▶** button and then use **▲ / ▼** button to select **Channel**.

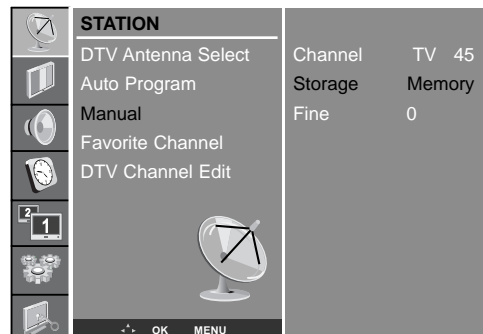
Press the **◀ / ▶** button to select the channel number.

Press the **▲ / ▼** button to select **Storage**.

Press the **◀ / ▶** button to select **Memory** (add) or **Erase** (Not Viewable).

Your choices are DTV mode: The **Not Viewable** channel is modified to **Viewable** from the channel edit.

Press the **MENU** button repeatedly to return to normal TV viewing.



## ■ Fine Tuning

Adjusts poor picture stability and image quality.

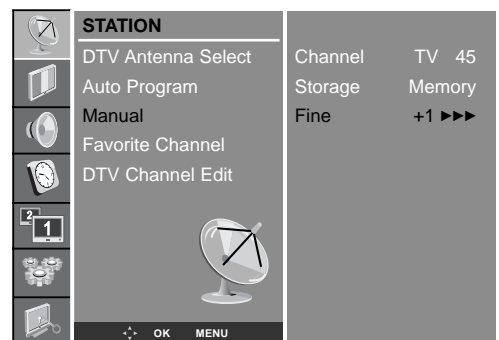
Press the **MENU** button and then use ▲ / ▼ button to select the **STATION** menu.

Press the ► button and then use ▲ / ▼ button to select **Manual**.

Press the ► button and then use ▲ / ▼ button to select **Fine**.

Use the ◀ / ▶ button to adjust the picture to your preference.

Repeatedly press the **MENU** button to return to normal TV viewing.



# Basic Operation - *continued*

## Favorite Channel

Favorite Channel lets you quickly tune in up to 8 channels of your choice without having to wait for the TV to scan through all the in-between channels.

Press the **MENU** button and then use **▲ / ▼** button to select the **STATION** menu.

Press the **▶** button and then use **▲ / ▼** button to select **Favorite Channel**.

Press the **▶** button and then use the **▲ / ▼** buttons to select the first favorite channel position.

Press the **◀ / ▶** buttons to set the desired channel number for the first favorite channel.

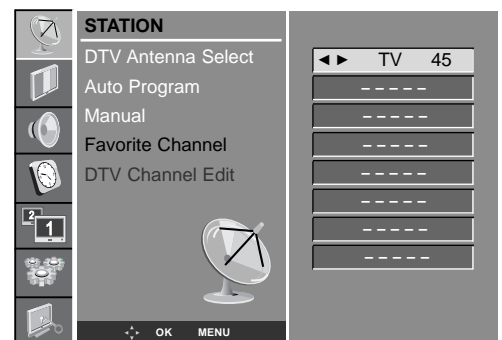
- Repeat this step to store the other 7 channels.

Press the **OK** button to save.

Press the **FAVORITE** button to cycle through the stored favorite channels.

Repeatedly press the **MENU** button to return to normal TV viewing.

**NOTE:** The 8 favorite channels appear on the screen one after another.





## DTV Channel Edit

The Edit function enables the user to delete or skip stored channels or to move to programmed channels to different positions.

Press the **MENU** button and then use **▲ / ▼** button to select the **STATION** menu.

Press the **▶** button and then use **▲ / ▼** button to select **DTV Channel Edit**.

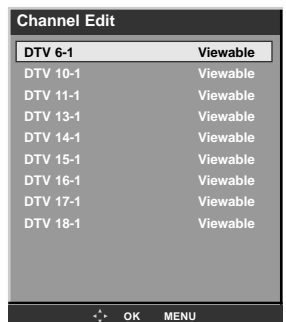
Press the **▶** button and then use the **▲ / ▼** buttons to select the channel.

Press the **◀ / ▶** button to select the **Viewable, Not Viewable, or FCR Channel**.

Press the **OK** button to save.

Press the **FAVORITE** button to cycle through the stored favorite channels.

Repeatedly press the **MENU** button to return to normal DTV viewing.



# Basic Operation - *continued*

## ■ Color Temperature

Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.

Press the ► button and then ▲ / ▼ button to select **Color Temperature**.

Press the ► button and then ▲ / ▼ button to select the desired color temperature.

Repeatedly press the **MENU** button to return to normal TV viewing.

- You can adjust red, green, or blue to any color temperature you prefer.

Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.

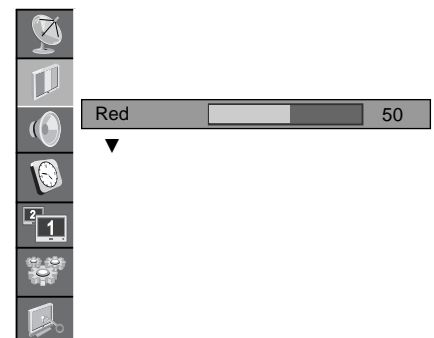
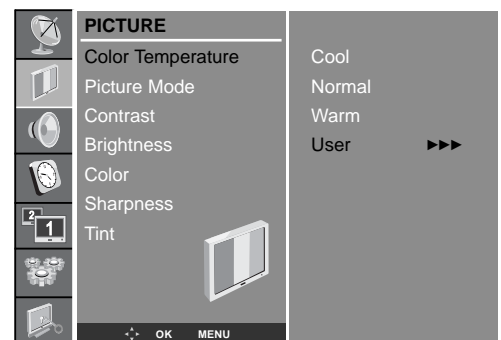
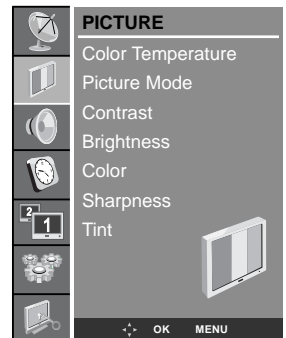
Press the ► button and then use ▲ / ▼ button to select **Color Temperature**.

Press the ► button and then use ▲ / ▼ button to select **User**.

Press the ► button and then use ▲ / ▼ button to make appropriate adjustments.

To reset default settings, select the Normal option.

Repeatedly press the **MENU** button to return to normal TV viewing.



## Picture Mode

Picture Mode adjusts the TV for the best picture appearance.

Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.

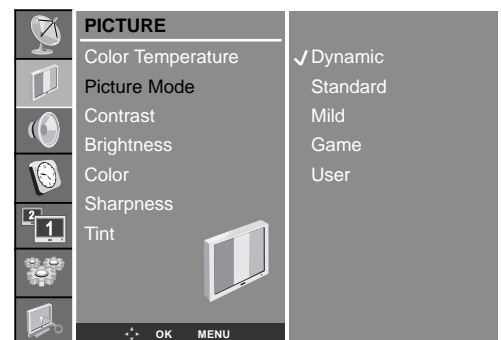
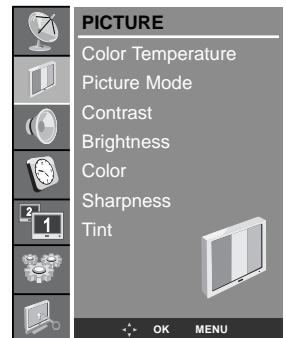
Press the ► button and then use ▲ / ▼ button to select **Picture Mode**.

Press the ► button and then use ▲ / ▼ button to select a picture setting on the **Picture Mode** pulldown menu.

Repeatedly press the **MENU** button to return to normal TV viewing.

You can also recall a desired picture setting (**Dynamic**, **Standard**, **Mild**, **Game** or **User**) by pressing the **PICTURE** button on the remote control.

The **Dynamic**, **Standard**, **Mild** and **Game** settings are set for good picture reproduction and cannot be changed.



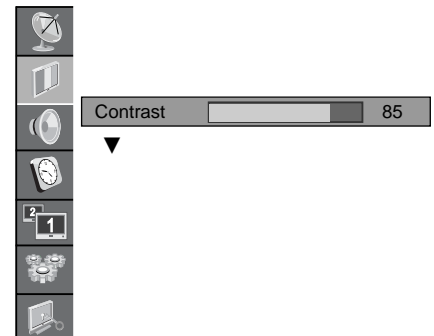
## Manual Picture Control

Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.

Press the ► button and then use ▲ / ▼ button to select the desired picture option.

Press the ► button and then use ▲ / ▼ button to make appropriate adjustments.

You can adjust picture contrast, brightness, color, sharpness and tint to the levels you prefer.



# Basic Operation - *continued*

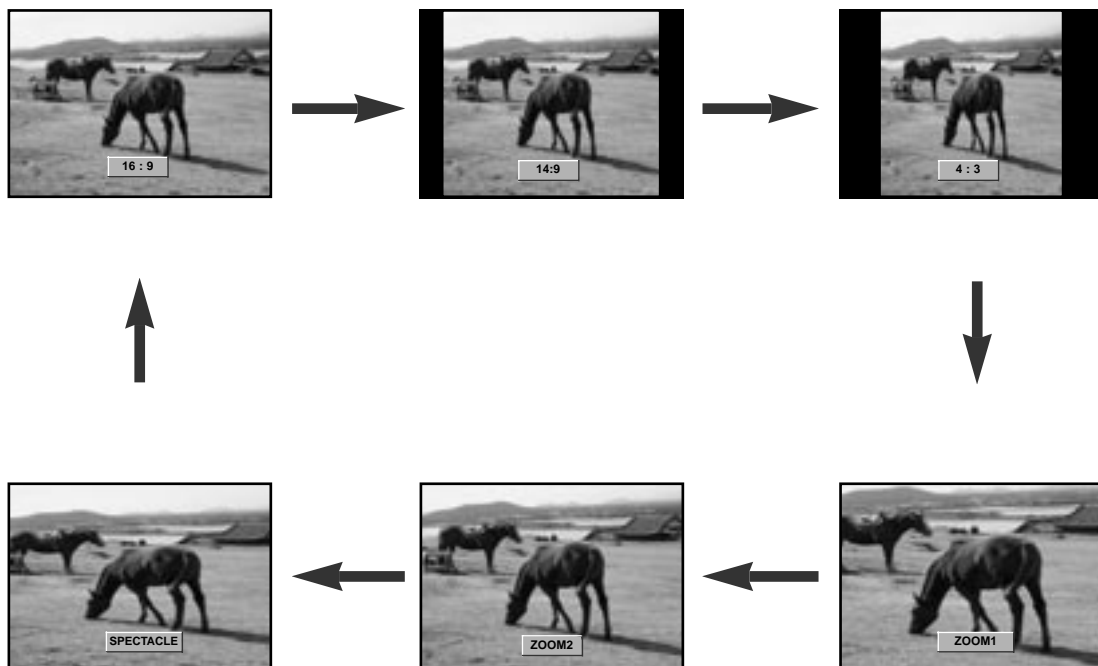
---

## ■ Picture Format

You can watch TV in various picture formats; 16:9, 14:9, 4:3, ZOOM1, ZOOM2, and SPECTACLE.

1. Press the **ASPECT** button repeatedly to select a desired picture format.
- You can only select 16:9, 14:9, 4:3, ZOOM1, ZOOM2, SPECTACLE in TV, AV1, AV2, AV3, and S-Video modes only.
  - You can select 16:9, 4:3 in Component, PC-RGB, HDMI, and DTV mode only.

**NOTE:** A short term or permanent afterimage effect may remain on the screen as a result of displaying an unmoving image, such as text in a broadcasting name, or when using the 4:3 screen at the ARC adjustment for a long period of time.



## ■ Sound

Sound Mode helps to provide the best sound without any special adjustment because the TV sets the appropriate sound options based on the channel content.

Press the **MENU** button and then use **▲ / ▼** button to select the **SOUND** menu.

Press the **▶** button and then use **▲ / ▼** button to select **Sound Mode**.

Press the **▶** button and then use **▲ / ▼** button to select a sound setting on the **Sound Mode** pulldown menu.

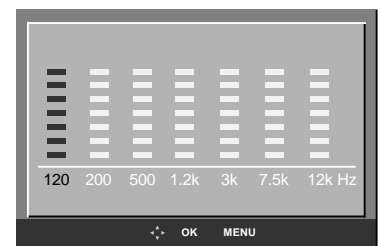
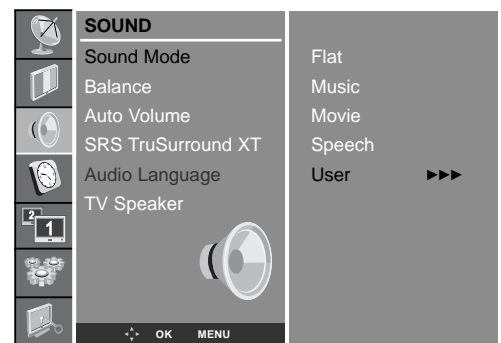
Repeatedly press the **MENU** button to return to normal TV viewing.

### Sound Frequency Adjustment

- Press the **▶** button in **User**.
- Select a sound band by pressing the **◀ / ▶** button.
- Make appropriate sound level with the **▲ / ▼** button.
- Press the **OK** button to store it for the sound **User**.

You can also recall a desired sound setting (**Flat**, **Music**, **Movie**, **Speech** or **User**) with **SOUND** button on the remote control.

The **Flat**, **Music**, **Movie** and **Speech** sound options are default settings and cannot be changed.



# Basic Operation - continued

## Balance

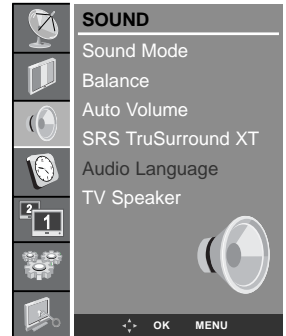
You can adjust the sound balance between the speakers to the levels you prefer.

Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.

Press the ► button and then use ▲ / ▼ button to select **Balance**.

Press the ► button and then use ◀ / ▶ button to make appropriate adjustments.

Repeatedly press the **MENU** button to return to normal TV viewing.



## Auto Volume

Auto Volume automatically keeps the audio level the same when you change channels.

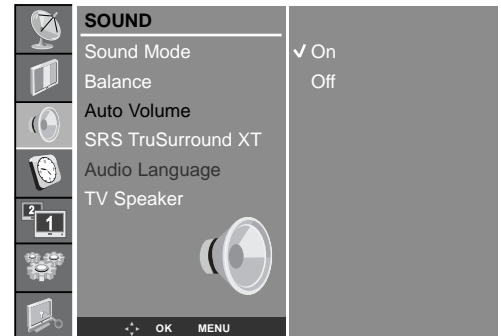
Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.

Press the ► button and then use ▲ / ▼ button to select **Auto Volume**.

Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.

**NOTE:** Available only in TV mode.



## ■ SRS TruSurround XT

SRS TruSurround XT is a trademark of SRS Labs, Inc.

TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Manufactured under license form Dolby Laboratories.

Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.

Press the ► button and then use ▲ / ▼ button to select **SRS TruSurround XT**.

Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.



# Basic Operation - *continued*

## ■ Audio Language (Digital Mode only)

This function lets you select preferred audio language.

Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.

Press the ► button and then use ▲ / ▼ button to select **Audio Language**.

Press the ► button and then use ▲ / ▼ button to select **English**, **French** or **Spanish**.

Repeatedly press the **MENU** button to return to normal DTV viewing.



## ■ TV Speaker

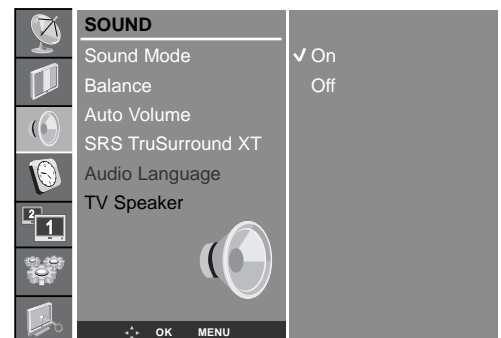
Turn TV speakers off when using external audio equipment.

Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.

Press the ► button and then use ▲ / ▼ button to select **TV Speaker**.

Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.





## ■ Stereo/SAP Broadcasts Setup

The TV can receive MTS stereo channels and any SAP (Secondary Audio Program) that accompanies the stereo channel, if the broadcaster transmits an additional sound signal as well as the original one.

**STEREO:** The primary language is heard from left and right speakers. Signal mode is stereo.

**SAP:** The secondary language is heard from left and right speakers.

**MONO:** The same primary language is heard from left and right speakers. Signal mode is mono.

- Press the **MTS** button repeatedly.

Select mono sound mode if the signal is not clear or if signal reception is poor.

**STEREO** and **SAP** modes are available only if they are included on the broadcast signal.



# Basic Operation - *continued*

## ■ Clock

### Auto

The digital channel signal includes information for the current time provided by the broadcasting station and sets the clock automatically.

Set the clock manually if the time is set incorrectly by the auto clock function.

Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Clock**.

Press the **▶** button and then **▲ / ▼** button to select **Auto**.

Repeatedly press the **MENU** button to return to normal TV viewing.



### Manual

If current time setting is wrong, reset the clock manually.

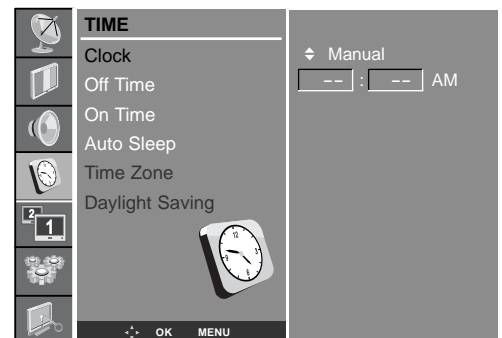
Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Clock**.

Press the **▶** button and then **▲ / ▼** button to select **Manual**.

Press the **▶** button and then **▲ / ▼** button to adjust the hour/minute.

Repeatedly press the **MENU** button to return to normal TV viewing.



## ■ On/Off Time

The off timer automatically switches the set to standby after a preset time.

Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Off Time** or **On Time**.

Press the **▶** button and then **▲ / ▼** button to select **On**.

To cancel **Off/On Time** function, press the **▲ / ▼** button to select **Off**.

Press the **▶** button and then use **▲ / ▼** button to select **DTV** or **TV**.

Press the **▶** button and then **▲ / ▼** button to adjust the hour / minute.

Only for the **On Time** function; Press the **▶** button and then **▲ / ▼** button to adjust volume level and channel number.

Repeatedly press the **MENU** button to return to normal TV viewing.

### NOTE:

In the event of power interruption (disconnection or power failure) the clock must be reset.

Two hours after the set is switched on by the **On Time** function it will automatically switch back to standby mode unless a button is pressed.

Once the on or off time is set, these functions will operate daily at the preset time.

**Off Timer** function overrides **On Timer** function if they are set to the same time.

The set must be in standby mode for the **On Timer** to work.



# Basic Operation - continued

## ■ Auto Sleep

If you select **On** in the **Auto Sleep** menu, the set will automatically switch itself to standby mode approximately ten minutes after it stops receiving external signals.

Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Auto Sleep**.

Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.



## ■ Time Zone (Digital Mode only)

Not available when clock is set manually.

Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Time Zone**.

Press the **▶** button and then **▲ / ▼** and **◀ / ▶** button to select **USA** or **Canada**.

Press the **▲ / ▼** button to select **Time Zone**.

U.S. time zones: **Eastern, Central, Mountain, Pacific, Alaska** or **Hawaii**.

Canada time zones: **New F.Land (New Foundland), Atlantic, Eastern, Central, Mountain, Pacific**.

Press the **OK** button to save.

Repeatedly press the **MENU** button to return to normal DTV viewing.



## ■ Daylight Saving (Digital Mode only)

If your area observes **Daylight Saving** time, turn this setting **On**.

Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.

Press the **▶** button and then **▲ / ▼** button to select **Daylight Saving**.

Press the **▶** button and then **▲ / ▼** button to select **Auto**, **On** or **Off**.

Repeatedly press the **MENU** button to return to normal DTV viewing.



## ■ Sleep timer

The sleep timer automatically switches the set to standby after the preset time has elapsed.

Press the **SLEEP** button to select the number of minutes. '**Sleep Time : - - min**' will appear on the screen, followed by **10, 20, 30, 60, 90, 120, 180** and **240**. The timer begins to count down from the number of minutes selected.

### NOTE:

- To view the remaining sleep time, press the **SLEEP** button once.
- To cancel the sleep time, repeatedly press the **SLEEP** button until the display '**Sleep Time : - - min**' appears.
- When you switch the set off, the sleep timer is reset.

# Basic Operation - *continued*

## ■ Child Lock

The TV can be set so that the remote control handset is required to control it. This feature can be used to prevent unauthorized use of the control buttons on the unit.

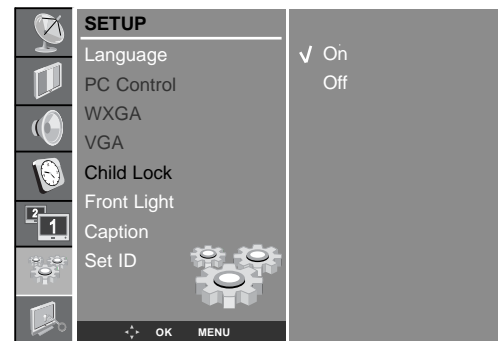
Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then **▲ / ▼** button to select **Child Lock**.

Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.

With the lock on, the display **Child Lock** appears on the screen if any button on the front panel is pressed while viewing the TV.



## ■ Front Light

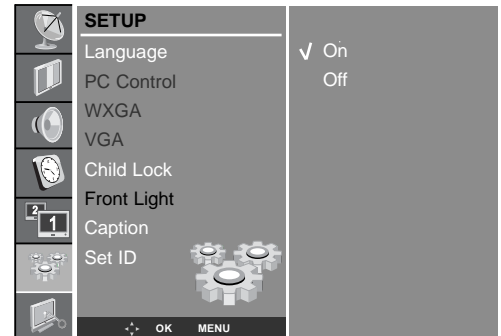
You can switch Front Light LED on or off.

Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then **▲ / ▼** button to select **Front Light**.

Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.



## ■ Closed Caption

Use the **CC** button repeatedly to select the Closed Captions.

Not available in Component, RGB-PC, and HDMI modes.

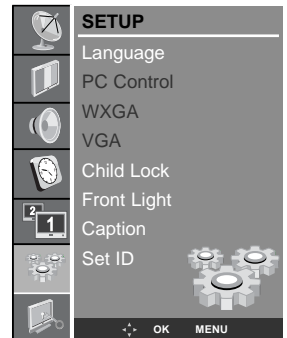
Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then **▲ / ▼** button to select **Caption**.

Press the **▶** button and then **▲ / ▼** button to select your caption selection.

Choices are: **OFF**, **CC1**, **CC2**, **CC3**, **CC4**, **TEXT1**, **TEXT2**, **TEXT3**, and **TEXT4**.

Repeatedly press the **MENU** button to return to normal TV viewing.



# Basic Operation - continued

## ■ Closed Caption (Digital Mode)

Press the CC button repeatedly to select Closed Caption method.

Customize The DTV/CADTV captions that appear on your screen.

Not available in Component and RGB-PC modes.

Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then **▲ / ▼** button to select **Caption**.

Press the **▶** button and then **▲ / ▼** button to select your caption selection.

Your choices are: **OFF**, **English**, **Spanish**, **French**, **Service4**, **Service5**, and **Service6**.

### Caption Option

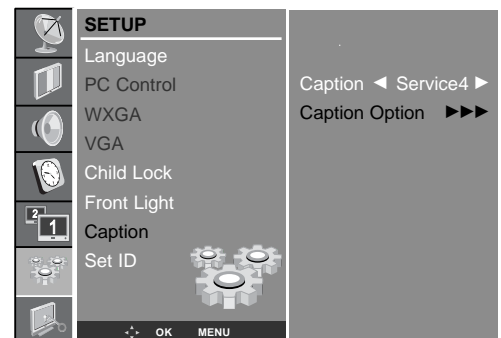
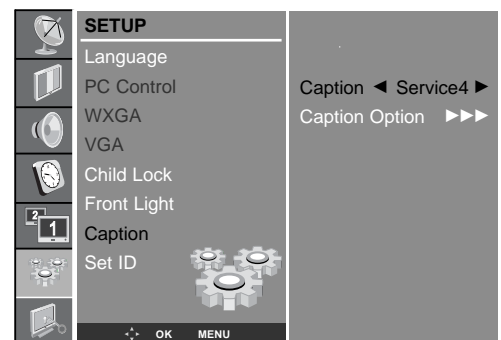
Press the **▲ / ▼** button to select Closed **Caption Option**.

Press the **▶** button and then **▲ / ▼** button to select the desired font style item.

Press the **◀ / ▶** button to make appropriate adjustments to the font style.

A preview icon is provided at the bottom of the screen, use it to see the closed caption language.

Repeatedly press the **MENU** button to return to normal DTV viewing.



Style	User
Size	Small
Font	Font4
Text Color	Yellow
Text Opacity	Solid
Bg Color	Black
Bg Opacity	Solid
Edge Type	Raised
Edge Color	White

**Sample**

OK MENU



## ■ Lock Menu Options

Parental Control can be used to block specific channels, ratings, and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcast station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be set:

1. Ratings and categories to be blocked.
2. Set a password
3. Enable the lock of V-Chip ratings and categories

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

### Options for Movies previously shown in theaters:

- None
- G and Above (general audience)
- PG and Above (parental guidance suggested)
- PG-13 and Above (13 years and older)
- R and Above (Restricted, Children under 17 should be accompanied by an adult.)
- NC-17 and Above (18 years and older)
- X : (adult)

If you set PG-13 and Above: G and PG movies will be available. PG-13, NC-17 and X will be blocked.

### Options for Television programs including made-for-TV movies:

- None
- TV-G and Above (general audience): (individual categories do not apply)
- TV-PG and Above: (parental guidance suggested)
- TV-14 and Above: (14 years and older)
- TV-MA: (mature audience)
- TV-Y and Above: (youth) (individual content categories do not apply)
- TV-Y7: (youth, 7 years and older)

### Content Categories:

- Dialog - sexual dialogue: (Applies to TV-PG and Above, TV-14)
- Language - adult language: (Applies to TV-PG and Above, TV-14 and Above, and TV-MA)
- Sex scenes - sexual situations: (Applies to TV-PG and Above, TV-14 and Above, and TV-MA)
- Violence: (applies to TV-PG and Above, TV-14 and Above, and TV-MA)
- F Violence - fantasy violence: (Applies to TV-PG and Above, TV-14 and Above, and TV-MA)

### Canadian English/French language rating system:

- None
- C and Above: (Children)
- C8+ and Above: (8 years and up)
- G and Above: (General programming. Suitable for all audiences.)
- PG and Above: (Parental guidance suggested)
- 14+and Above: (Viewers 14 years and older)
- 18+: (Adult programming)

### Canadian French language rating system:

- None
- G: (General)
- 8 ans+: (8 years and older)
- 13 ans+: (13 years and older)
- 16 ans+: (16 years and older)
- 18 ans+: (18 years and older)

# Basic Operation - continued

## Lock System

Press the **MENU** button and then use ▲ / ▼ button to select the **LOCK** menu. Then, press the ► button.

If **Lock** is already set, enter the password.

The initial password is “0-0-0-0”.

### Setting Lock on/off

Enables or disables the blocking scheme you set up previously.

Press the ▲ / ▼ button to select **Lock System**.

Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.

### Set password

Change the password by inputting a new password twice.

Press the ▲ / ▼ button to select **Set Password**.

Press the ► button.

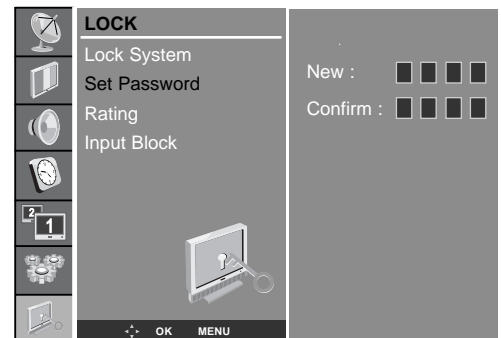
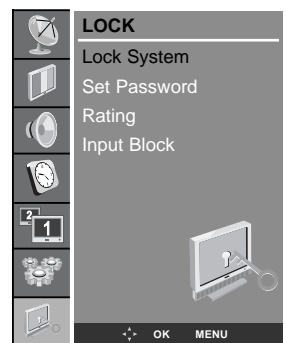
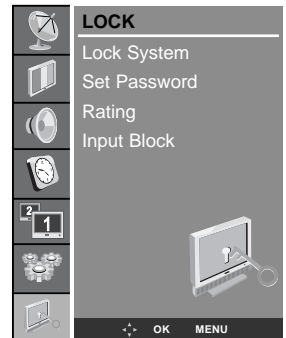
Enter a four digit password.

As soon as the 4 digits are entered, re-enter the same 4 digits in the **New**, and **Confirm** areas.

Press the **OK** button to save.

If an invalid password is input in **Confirm Password** screen, “**Password Mismatch**” appears on screen.

The changed password is stored.



# Basic Operation - *continued*

## Rating

To Select Canadian / English / French rating system press the ▲ / ▼ button to select **Rating**.

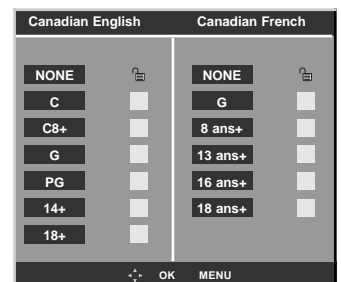
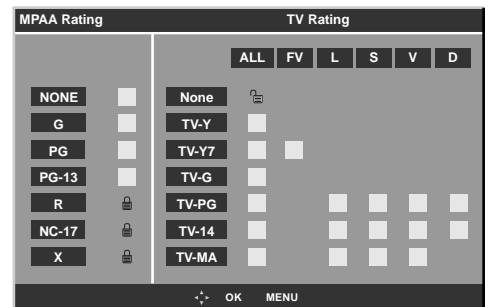
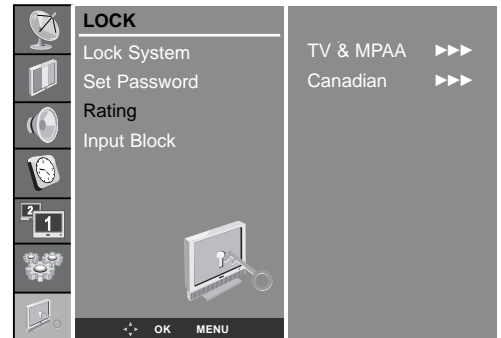
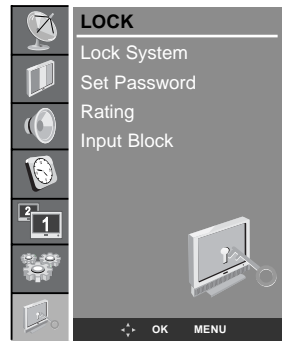
Press the ► button and then use ▲ / ▼ button to select **TV Rating Limit** or **Canadian**.

Press the ► button and then use ▲ / ▼ button to select type of ratings to block.

Press the ▲ / ▼ / ◀ / ▶ button to select your rating selection.

Press the **OK** button to lock or unlock.

Press the **MENU** button to rating save, return to normal TV viewing.



# Basic Operation - *continued*

## Input Block

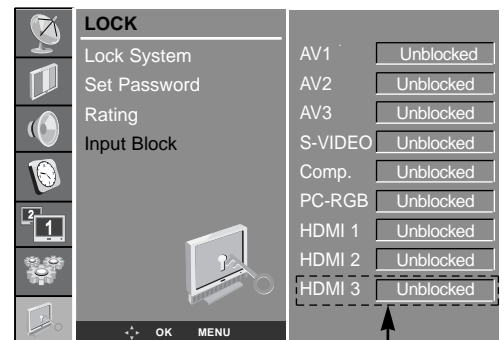
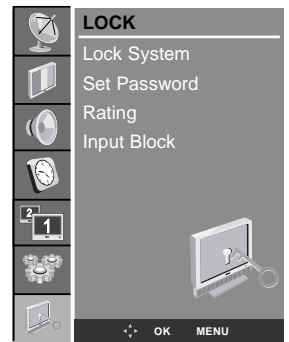
Select an external source to block.

Press the ▲ / ▼ button to select **Input Block**.

Press the ► button and then use ▲ / ▼ button to select a source.

Press the ► button and then use ◀ / ▶ button to select **Blocked** or **Unblocked** for each source.

Repeatedly press the **MENU** button to return to normal TV viewing.



(40/46inch model only)

## ■ PC Setup

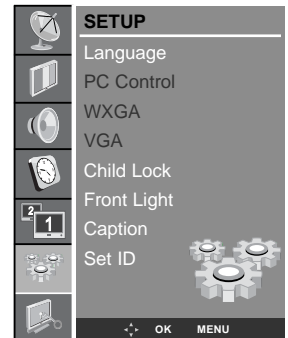
The following items can be selected or adjusted: Horizontal/Vertical position, Clock, Phase, and Auto Program.

Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then use **▲ / ▼** button to select **PC Control**.

Press the **▶** button and then **▲ / ▼** button to select the desired picture item.

Press the **▲ / ▼** button to make appropriate adjustments.



### H-Position / V-Position

Adjusts picture to left/right and up/down as you prefer.

### Clock

This function is to minimize any vertical bars or stripes visible on the screen background. Horizontal screen size will also change.

### Phase

Removes any horizontal noise. Clears or Sharpens text.

### Auto Program

This function is for the automatic adjustment of the screen position, clock and phase. The displayed image will disappear for a few seconds while the Auto Program is in progress.

### Reset

Restores factory settings.

**NOTE:** Some signals from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's H/V position, Clock and Phase manually.

Press the **OK** button to store settings.

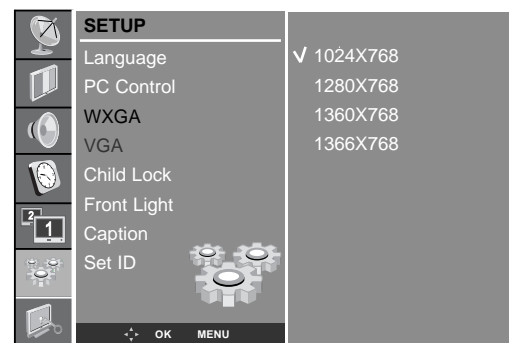
Press the **EXIT** button to return to PC mode.



# Basic Operation - *continued*

## ■ WXGA or VGA (PC-RGB Mode only)

When a WXGA signal is present, select the desired resolution.



## ■ Information (Digital Mode only)

This function shows the present input information.

Press the **INFO** button while watching DTV. The information appears on screen.

Press the **INFO** or **MENU** button to exit.

(The Information window will disappear on its own after a few seconds.)

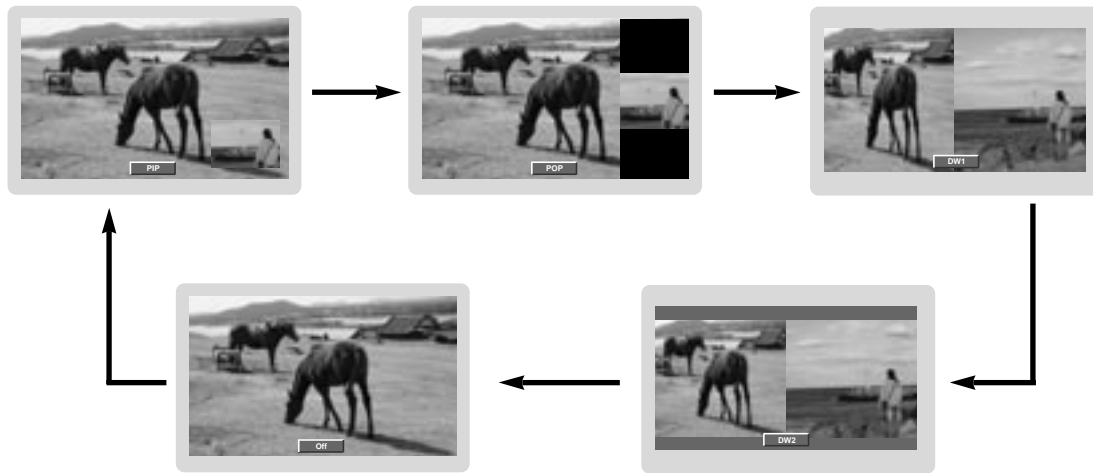


## Picture in Picture

PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.

Press the **PIP** button to show the sub picture.

Each press of **PIP** button changes the screen display as shown below.



40/46inch model only

MAIN \ SUB	DTV	TV	AV1	AV2	AV3	S-Video	Component	PC-RGB	HDMI1	HDMI2	HDMI3
TV	X	X	O	O	O	O	O	O	O	O	O
AV1	O	O	X	O	O	O	O	O	O	O	O
AV2	O	O	O	X	O	O	O	O	O	O	O
AV3	O	O	O	O	X	O	O	O	O	O	O
S-Video	O	O	O	O	O	X	O	O	O	O	O

# Basic Operation - *continued*

## ■ PIP Audio Output

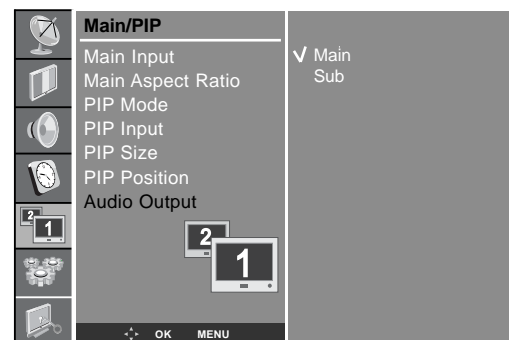
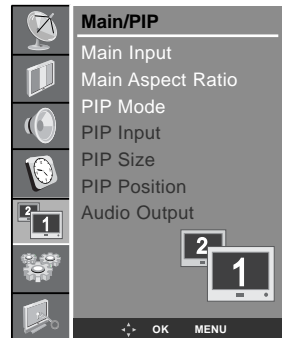
PIP mode - main and sub picture audio select.

Press the **MENU** button and then use **▲ / ▼** button to select the **Main/PIP** menu.

Press the **▶** button and then use **▲ / ▼** button to select **Audio Output**.

Press the **▶** button and then use **▲ / ▼** button to select **Main** or **Sub**.

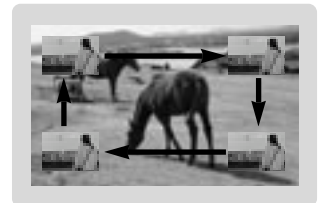
Repeatedly press the **MENU** button to return to normal TV viewing.



## ■ Moving the PIP

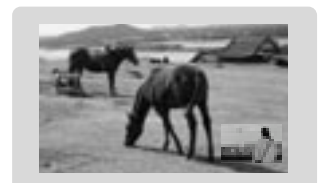
Press the **PIP POSITION** button.

Press the **PIP POSITION** button repeatedly until desired position is achieved. The sub pictures move clockwise.



## ■ Selecting an Input Signal Source for the PIP

Use the **PIP INPUT** button to select the input source for the sub picture.





## ■ Channel selection for sub picture (Sub picture only TV mode)

Press the **PIP CH +/-** button. The selected channel number is displayed just below the channel number of main picture.

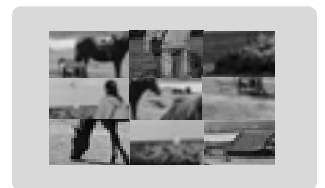
## ■ Channel Scan

Press the **PIP POSITION** button.

Look at all of the stored channels on 9 windows.

Press the **SCAN** button to show all 9 windows on the screen.

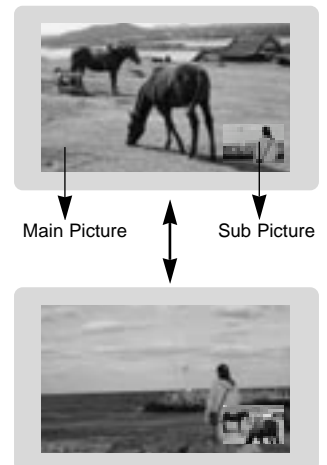
Press the **EXIT** button to return to normal viewing.



## ■ Swapping the PIP

Press the **SWAP** button to switch between the Main and Sub pictures.

Available only in **TV**, **AV1**, **AV2**, **AV3**, and **S-VIDEO** modes.

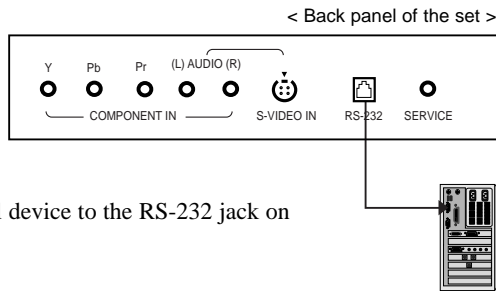


# Basic Operation - continued

## External Control Device Setup

Connect the RS-232 input jack to a control device (such as a computer or an A/V control system) in order to control the set's functions externally.

## Connect External Equipment



Connect the serial port of the control device to the RS-232 jack on the set.

RS-232 connection cables are not supplied with the Monitor.

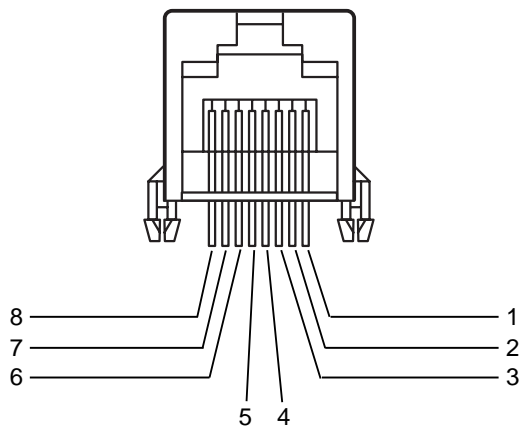
The Monitor remote control and front panel controls (except main power) will not be functional if the set is controlled by a PC computer or other external device.

## RJ-45 8PIN CONNECTOR

NO.	PIN NAME
1	RXD(RECEIVE DATA)
2	TXD(TRANSMIT DATA)
3	NO CONNECTION
4	GND
5	GND
6	NO CONNECTION
7	NO CONNECTION
8	NO CONNECTION

### Communication Parameters

- Baud rate : 4800bps (UART)
- Data length : 8bits
- Parity : None
- Stop bit : 1bit
- Communication code : HEX code



## ■ Set ID

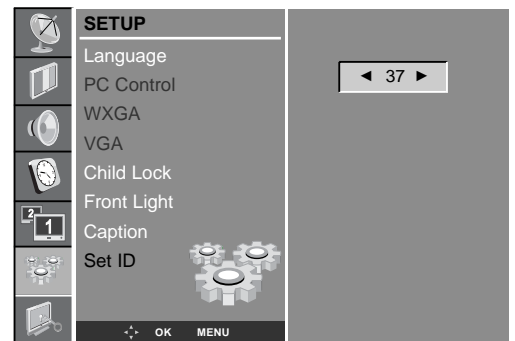
Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.

Press the **▶** button and then **▲ / ▼** button to select **Set ID**.

Press the **▶** button and then **◀ / ▶** button to adjust **Set ID** to choose the desired monitor ID number.

The adjustment range of **Set ID** is 1 ~ 99.

Use this function to specify a monitor ID number.



# Basic Operation - continued

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## RGB Mode / HDMI Mode

MODE	Resolution	Vertical Frequency (Hz)
DOS	640X350	70.0
	720X400	70.0
		85.0
VGA	640X480	60.0
		72.0
		75.0
		85.0
SVGA	800X600	56.0
		60.0
		72.0
		75.0
		85.0
XGA	1024X768	60.0
		70.0
		75.0
		85.0
SXGA	1280X1024	60.0
WXGA	1280X768	60.0
		75.0
	1360X768	60.0
	1366X768	60.0

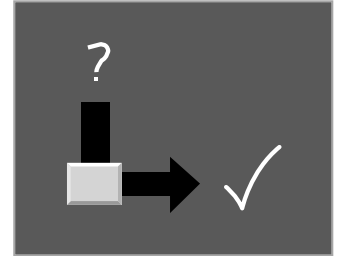
DTV	480p/60
	720p/50
	720p/60
	1080i/50
	1080i/60

(Separate Sync Signal only)

# Specifications

		ASPV32-AVT	ASPV40-AVT	ASPV46-AVT
Panel	Size (Diagonal)	80cm/32"	101cm/40"	116cm/46"
	Aspect Ratio	16:9	16:9	16:9
	Resolution	WXGA (1366x768)	WXGA (1366x768)	WXGA (1366x768)
	Brightness	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
	Contrast Ratio	5000:1 (Dynamic)	5000:1 (Dynamic)	5000:1 (Dynamic)
	Viewing Angle	over 178 °	over 178 °	over 178 °
	Color Depth	16.7M colors	16.7M colors	16.7M colors
Audio	Speaker Output	15W x 2	20W x 2	20W x 2
	7 Band Equalizer	Y	Y	Y
	Auto Volume Leveler	Y	Y	Y
Input	RF Input	Y	Y	Y
	AV Input	AV1, AV2, AV3, S-VIDEO	AV1, AV2, AV3, S-VIDEO	AV1, AV2, AV3, S-VIDEO
	Component Input	Y	Y	Y
	PC Input (15P D-SUB)	ANALOG INPUT	ANALOG INPUT	ANALOG INPUT
	PC Audio Input	L+R	L+R	L+R
	HDMI (HDCP, DVI)	2	3	3
	SPDIF (Optical) Output	Y	Y	Y
Output	AV Output	Y	Y	Y
	Headphone Output	Y	Y	Y
Features	Closed Captioning	Y	Y	Y
	V-Chip	Y	Y	Y
	Picture in Picture	Y	Y	Y
	4 Language Menu	English / French / Spanish / Portuguese	English / French / Spanish / Portuguese	English / French / Spanish / Portuguese
	Sleep Timer	Y	Y	Y
Weight		15.1kg / 33.3 lbs	23.6kg / 52.1 lbs	38.6kg / 85.1 lbs
Dimensions (WxDxH)		806.0 mm x 235.0 mm x 644.0mm 31.7" x 9.3 " x 25.4"	998.0 mm x 298.0 mm x 748.0 mm 39.3" x 11.7 " x 29.4"	1142.0 mm x 355.0 mm x 837.0 mm 45.0" x 14.0 " x 33.0"
<b>Environmental Considerations</b>				
Operating Temperature		50°F to 104°F (10°C to 40°C)	50°F to 104°F (10°C to 40°C)	50°F to 104°F (10°C to 40°C)
Operating Humidity		10% to 80%, non-condensing	10% to 80%, non-condensing	10% to 80%, non-condensing
Storage Temperature		-4°F to 113°F (-20°C to 45°C)	-4°F to 113°F (-20°C to 45°C)	-4°F to 113°F (-20°C to 45°C)
Storage Humidity		5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Power Supply		125-240V, AC50/60Hz	125-240V, AC50/60Hz	125-240V, AC50/60Hz

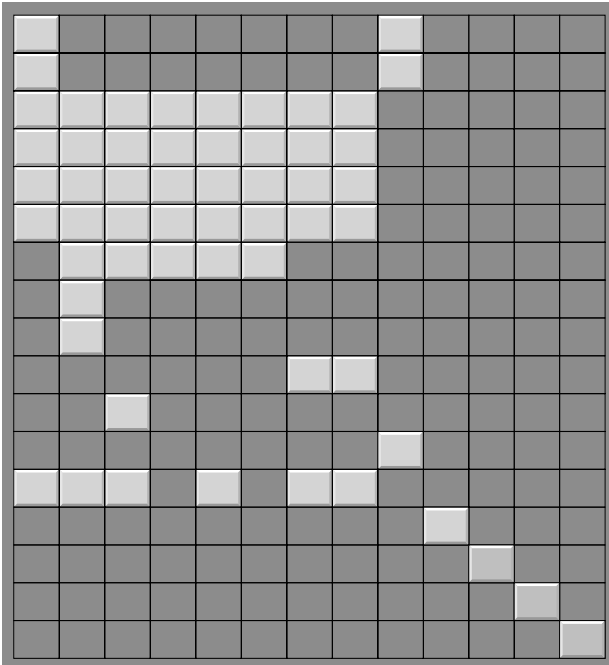
# Troubleshooting



## Symptoms

- No picture, no sound
- Sound OK, poor picture
- Picture OK, poor sound
- Picture blurred
- Lines or streaks in picture
- Poor reception on some channels
- No color
- Poor color
- Remote control does not work
- Incorrect position
- Vertical bars or stripes on background
- Horizontal noise
- Signal Cable message appears

## Check these items and try to adjust these



- The mains plug-(plugged in and switched on)
- Is the TV switched on
- Try another channel (weak signal)
- Check aerial (plugged into TV?)
- Check aerial (broken lead?)
- Check aerial
- Check for local interference
- Adjust contrast
- Adjust brightness
- Adjust color
- Adjust volume
- Check the batteries in remote control
- Check Audio/Video sockets (VCR only)
- Auto-configure or adjust the H/V position
- Auto-configure or adjust Clock
- Auto-configure or adjust Clock Phase
- Is the Signal Cable connected or loose

## NEC Monitor Customer Service & Support

<b>Customer Service and Technical Support:</b>	(800) 632-4662 Fax: (800) 695-3044
<b>Parts and Accessories/Macintosh Cable Adapter:</b>	(800) 632-4662
<b>Warranty Information:</b>	<a href="http://www.necdisplay.com">www.necdisplay.com</a>
<b>Online Technical Support:</b>	<a href="http://www.necdisplay.com">www.necdisplay.com</a>
<b>Sales and Product Information</b>	
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<b>Canadian Customers:</b>	(866) 771-0266, Ext#: 4037
<b>Government Sales:</b>	(800) 284-6320
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<b>World Wide Web:</b>	<a href="http://www.necdisplay.com">www.necdisplay.com</a>
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<b>European Operations:</b>	<a href="http://www.nec-display-solutions.com">www.nec-display-solutions.com</a>
<b>Drivers and Downloads:</b>	<a href="http://www.necdisplay.com">www.necdisplay.com</a>

# Limited Warranty

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NEC Display Solutions of America, Inc. (hereinafter "NEC DISPLAY SOLUTIONS") warrants this Product to be free from defects in material and workmanship and, subject to the conditions set forth below, agrees to repair or replace (at NEC DISPLAY SOLUTIONS' sole option) any part of the enclosed unit which proves defective for a period of one (1) years from the date of first consumer purchase. Spare parts are warranted for ninety (90) days. Replacement parts or unit may be new or refurbished and will meet specifications of the original parts or unit.

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This warranty is limited to the original purchaser of the Product and is not transferable. This warranty covers only NEC DISPLAY SOLUTIONS-supplied components. Service required as a result of third party components is not covered under this warranty. In order to be covered under this warranty, the Product must have been purchased in the U.S.A. or Canada by the original purchaser. This warranty only covers Product distribution in the U.S.A. or Canada by NEC DISPLAY SOLUTIONS No warranty service is provided outside of the U.S.A. or Canada. Proof of Purchase will be required by NEC DISPLAY SOLUTIONS to substantiate date of purchase. Such proof of purchase must be an original bill of sale or receipt containing name and address of seller, purchaser, and the serial number of the product.

It shall be your obligation and expense to have the Product shipped, freight prepaid, or delivered to the authorized reseller from whom it was purchased or other facility authorized by NEC DISPLAY SOLUTIONS to render the services provided hereunder in either the original package or a similar package affording an equal degree of protection. All Products returned to NEC DISPLAY SOLUTIONS for service MUST have prior approval, which may be obtained by calling 1-800-632-4662. The Product shall not have been previously altered, repaired, or serviced by anyone other than a service facility authorized by NEC DISPLAY SOLUTIONS to render such service, the serial number of the product shall not have been altered or removed. In order to be covered by this warranty the Product shall not have been subjected to displaying of fixed images for long periods of time resulting in image persistence (afterimage effects), accident, misuse or abuse or operated contrary to the instructions contained in the User's Manual. Any such conditions will void this warranty.

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For the name of your nearest authorized NEC Display Solutions of America, Inc. service facility, contact NEC Display Solutions of America, Inc. at 1-800-632-4662.









# APV32, APV40, APV46

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## *DECLARATION OF CONFORMITY*

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

U.S. Responsible Party:	NEC Display Solutions of America, Inc.
Address:	500 Park Blvd. Suite 1100 Itasca, IL 60143
Tel. No.:	(630)467-3000

Type of Product:	Computer Monitor
Equipment Classification:	Class B Peripheral
Model:	AccuSync PV32 (ASPV32-AVT) AccuSync PV40 (ASPV40-AVT) AccuSync PV46 (ASPV46-AVT)



*We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules.*

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Printed In Korea

P/No : **MAN07GDP078**  
**GPN07MA016J**

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