APEX
DIGITAL

27" LCD HDTV Monitor

AVL2776

User Manual

Register your product online to activate your warranty

come *play* with us

www.apexdigitalinc.com

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SER-VICEABLE PARTS INSIDE. REFER TO QUALIFIED PERSONNEL.

The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) insturctions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 the cable entry as practical.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product. This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions
All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions
All operating and use instructions should be followed.

3. Retain Instructions
The safety and operating instructions should be retained for future reference.

4. Heed Warnings
All warnings on the product and in the operating instructions should be adhered to.

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

6. Water and Moisture
Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories Carts and Stands
Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

9. Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

PORTABLE CART WARNING

10. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source 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 products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the 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 obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
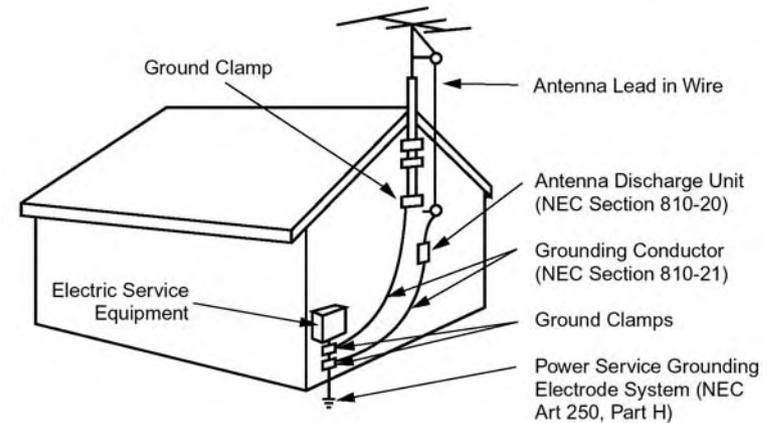
14. Lightning

For added protection for this product (receiver) 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 or cable system. This will prevent damage to the product due to lightning and power-line surges.

15. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard 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 Grounding According to National Electrical Code Instructions

Ground Clamp

Antenna Lead in Wire

Antenna Discharge Unit (NEC Section 810-20)

Grounding Conductor (NEC Section 810-21)

Ground Clamps

Electric Service Equipment

Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

16. Power Lines

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 fall into 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.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
Safety Instructions

Contents

- All functions can be controlled using the remote control handset.
- Some functions can also be adjusted with the buttons on the top panel of the set

1. **POWER**
   To turn on LCD display.
2. **MUTE**
   Press the button to turn off the sound. Press again or press volume +/- to restore the original volume.
3. **PIP**
   Press the button to activate Picture In Picture mode.
4. **INPUT (select the small picture's signal source)**
   Press the button to select the small picture's signal source.
5. **SWAP (swap between large picture and small picture)**
   Swap between large picture and small picture.
6. **PIP-SIZE (size of small picture)**
   Change the size of small picture in PIP mode.
7. **PIP-POS (small picture's position)**
   Select the small picture's position in PIP mode.
8. **VIEW (adjust display aspect ratio)**
   Activate the screen-scaling mode. 4:3 Mode / Panoramic / Fill all / Wide
9. **MTS (multi-channel TV sound)**
   Press MTS button and ◀ / ▶ button to select STEREO, MONO, or SAP.
10. **FREEZE (freze frame)**
    Press FREEZE to digitally freeze frame. Press again for live viewing.
11. **CC**
    Press CC to activate subtitle & teletexts where available.
12. **INPUT (main picture's signal source)**
    Sequentially switch to the signal sources as follows: TV/AV(CVBS/VIDEO)/S-VIDEO/YPbPr1/YPbPr2/VGA/DVI.
13. **MENU (menu adjustment)**
    Press MENU to activate the OSD menu. Press again to quit the menu. You can press ▲ ▼ ◀ ▶ to navigate & make selection.
14. **SLEEP**
    Press this button repeatedly to set the sleep timer to OFF/30/60/90/120 minutes. The unit will cut its power as soon as the timer is up. To cancel your selection, simply press the button repeatedly until OFF is displayed
15. **VOL +/- (Volume +/-)**
    Adjust volume.
16. **CH (Channel)**
    Select channel.
17. **0~9**
    Press 0~9 to select channels from 01 to 125. If the channel number you input is larger than 125, the TV will stay in the previous channel.
18. **RETURN**
    Return to previous channel.
19. **DISPLAY (displaying channel)**
    Press DISPLAY to display the current channel.
20. **TV, S-VIDEO, AV, YPbPr1, YPbPr2, VGA, DVI (main picture's signal source)**
    Press the signal source you want. These buttons you to switch between signal sources for the main picture.
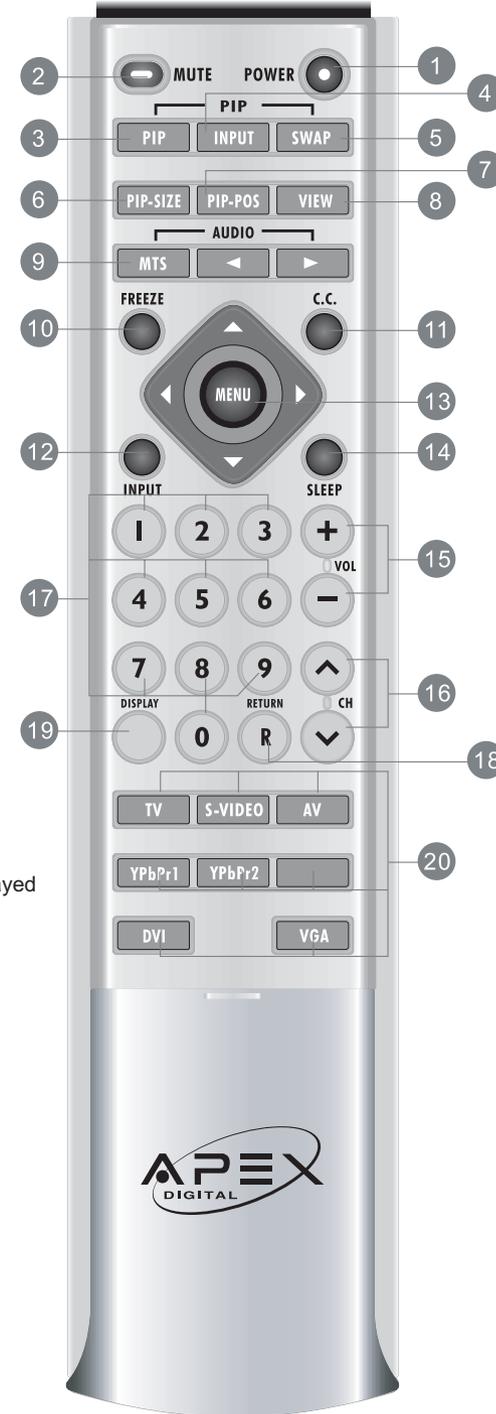
Battery Installation

Your remote control handset is powered by two AAA type batteries.

1

To insert batteries, turn the remote control over and remove the battery cover.

2

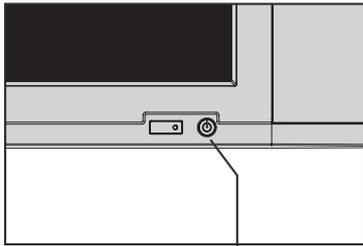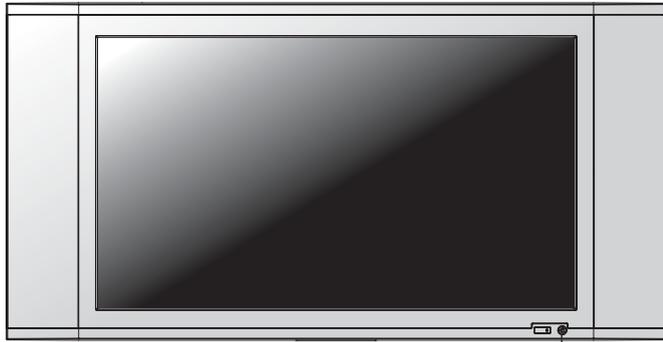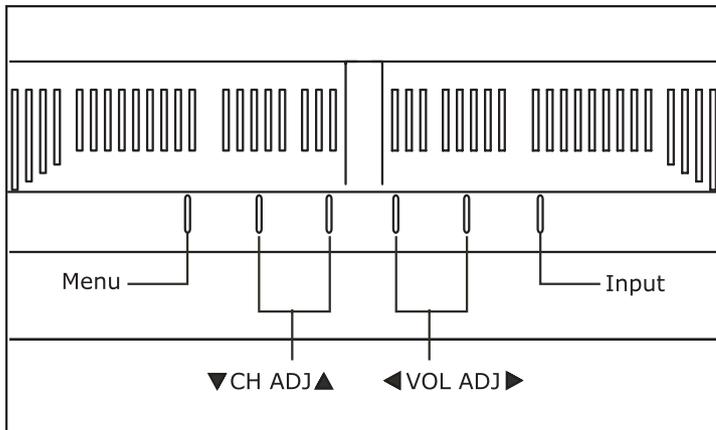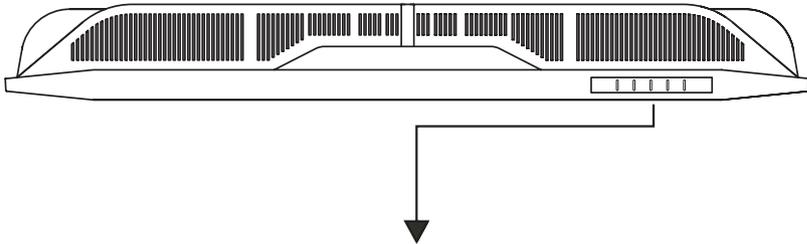Put the two batteries into the compartment with correct polarity.

3

Replace the cover.

To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time. Do not mix batteries of different age and type. Always discard of used batteries safely.

Main Power

Menu ——   —— Input

▼CH ADJ▲   ◀VOL ADJ▶

1. MAIN POWER
Turn on/off HDTV monitor.
Press the power button in the lower right corner of the television to turn on/off HDTV monitor.
When power is on, the LED indicator turns green, then the screen image will appear in a few seconds. When power is off, the LED indicator turns red.

2. MENU
Activate the menu.
Press the MENU button on the top left of the HDTV monitor to change your settings. Press 3 & 4 buttons to adjust the settings.

3. Channel/Function (Channel ▲ ▼)
Press the ▲ ▼ button to select the channel in TV mode, or to navigate in MENU mode.

4. Volume/Adjust (Volume ◀ ▶)
Press ◀ ▶ button to adjust volume. These buttons are also used to adjust settings in the MENU mode.

5. Input Select
After connecting your DVD,VCR etc., select the source to view by pressing this button repeatedly to choose between these input sources for the main picture:
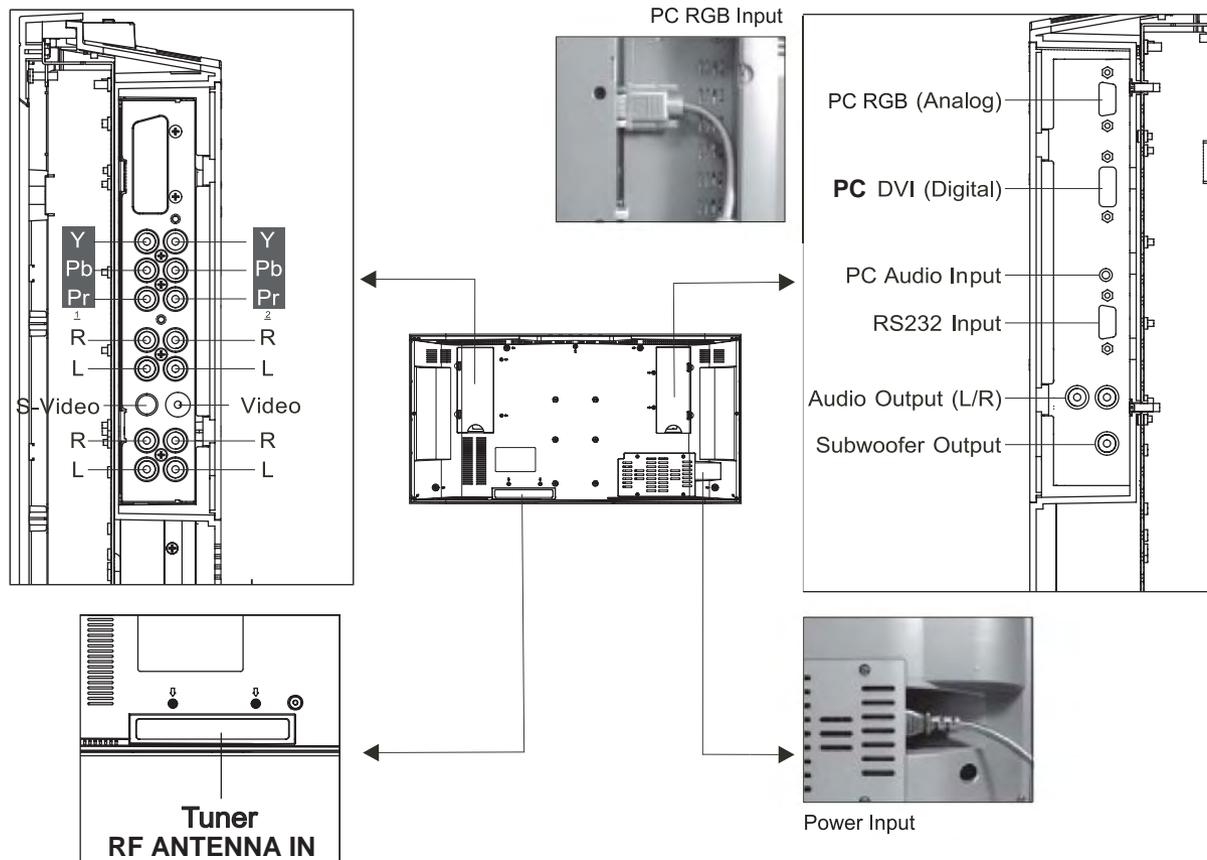**TV**
AV
S-VIDEO
YPbPr l
YPbPr 2
VGA
DVI

PC RGB Input

PC RGB (Analog)

PC DVI (Digital)

PC Audio Input

RS232 Input

Audio Output (L/R)

Subwoofer Output

Y
Pb
Pr
1
R
L
S-Video

Y
Pb
Pr
2
R
L
Video

R
L

R
L

**Tuner
RF ANTENNA IN**

Power Input

Power Input
Supply power for LCD TV display.

PC RGB Input (analog)
Inputs RGB analog signals; can be used with personal computers or certain older HDTV set-top boxes.

PC DVI Input (digital)
Input digital signals from an HDTV Source.

RS232 (Reserved for Service Technician)

PC & HDTV Audio Input
When your LCD TV display is in VGA/DVI mode, use this mini-jack to input from your PC or certain older HDTV set-top boxes to get sound.

Audio Output
Audio signal is passed through external audio equipment.

Subwoofer Output
Outputs subwoofer signal.

Tuner/RF Antenna In
Connects to antenna or cable source. Use the included RF elbow adapter if necessary.

Video Input and R/L input
Connects to a video source equipped with Composite Audio/Video output jacks.

S-Video and R/L Input
Connects S-Video (Y/C) and analog audio signal (R/L connector).

**YPbPr1 and R/L Input & YPbPr2 and R/L Input**
When connecting to YPbPr(R/L), you can use YPbPr component video sources such as a progressive DVD player, HDTV decoder or satellite receiver to obtain the picture with maximum resolution. For audio sound connect red and white audio cables.

You can connect external video equipment, such as VCRs, camcorders etc. to your set. However please check with your manufacturers instruction booklets for specific information. Make sure that all appliances are unplugged before all connections are made. The diagrams shown may be different from your set.

1

Connecting Video Equipment by using the RF Connector

1. Connect the RF out from the external video equipment to the antenna socket on the back of the TV.

2. Connect the antenna cable to the RF antenna socket of the external video equipment.

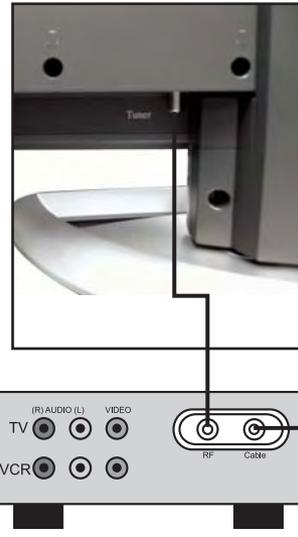3. Select channel 3 or 4.
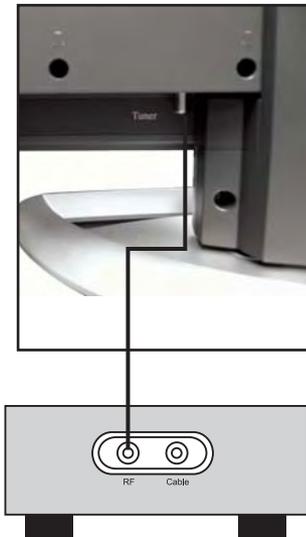
2

Watching Off-Air or Cable TV

- For further information on cable TV, contact your local cable TV station.

1. Connect coaxial cable from your existing antenna or cable box to RF input socket located on the bottom left of the back panel using supplied RF elbow adaptor.

1   **2**

Back of Cable Box   Back of Cable Box

3   **For Good Performance**

Connecting the Video Equipment to Composite Video (Video) or S-Video

- Connect to equipment using optional video and audio cables.
- When connecting the set to external equipment, match the colors of connecting ports (Video - yellow, Audio (L) - white, Audio (R) -red).
- Connect the **VIDEO INPUT** socket (yellow) to the **VIDEO** on the set.
- If you connect an **S-VIDEO SOURCE** to the **S-VIDEO** input, the picture quality is improved; compared to connecting a regular Video input.
 If a 4:3 picture format is used; there may be black borders around the image.
- To avoid picture noise (interference), leave an adequate dis -tance between the external video equipment and set.
1. Use the **INPUT SELECT** button on the remote control to select **AV (CVBS)**.
   (If connected to S-VIDEO, select the S-Video button on the remote control.)
2. Insert a video material into the external video equipment and press the **PLAY** button. (See external video equipment owner's manual)

DVD player with Composite & S-Video inputs
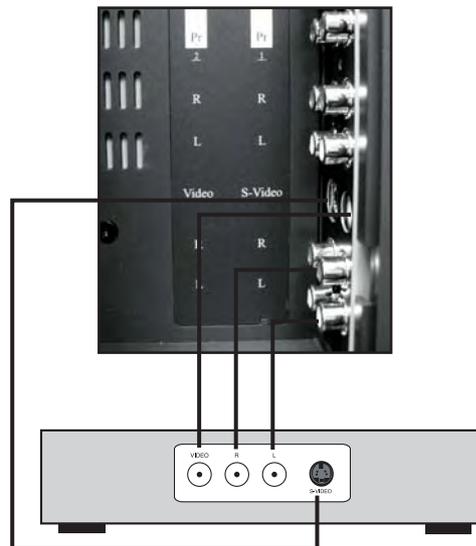
4   **For Better Performance**

Connecting the Video Equipment to Component Video (YPbPr1, YPbPr2)

- Connect to equipment using optional video and audio cables.

How to connect
Connect the component video out from your external video equipment to the YPbPr1 or YPbPr2 input and standard audio cables to the R/L Audio sockets of the HDTV monitor.

How to use
1. Turn on the external video equipment, and insert a video material.
2. Use YPbPr1 or YPbPr2 button on the remote control to select the source. Refer to the external video equipment's man-ual for operating instructions.

DVD player with Component (YPbPr) inputs
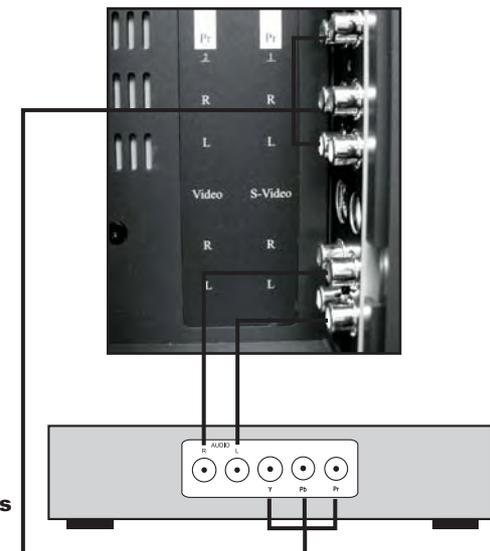
5

Connecting the Video Equipment to PC RGB Input (Digital SET-TOP-BOX, Personal Computer...etc.)

- Connect to equipment using optional video and audio cables.
- To watch digitally broadcast programs, you must use a digital cable set-top box or satellite receiver.

How to connect
1. Use the set's PC RGB jack for video connections to your set-top box connector or your personal computer's VGA output. Then, make the corresponding audio connections. Refer to the external video equipment's manual for operating instructions.

How to use
1. Turn on the digital set-top box or your personal computer (Refer to the owner's manual for the digital set-top box.)
2. Use **VGA** button on the remote control to select the source.

PC

6 **For Best Performance**

Connecting the Video Equipment to DVI Input (Digital SET-TOP-BOX, Satellite Receiver)

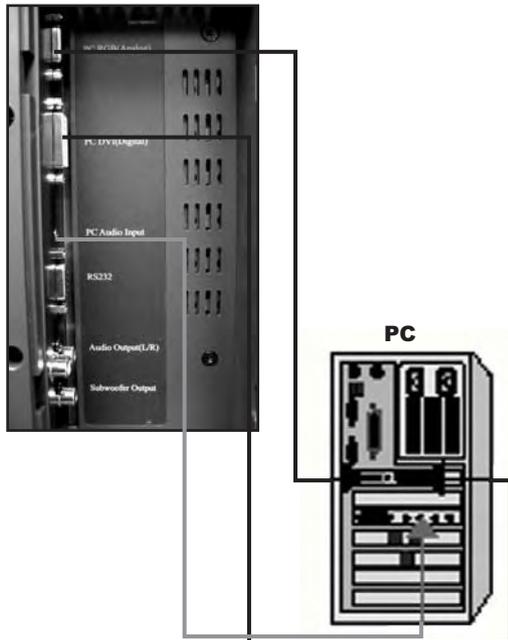- Connect to equipment using optional video and audio cables.
- To watch digitally broadcast programs, you must use a digital cable set-top box or satellite receiver.

How to connect
1. Use the set's DVI jack for the purest all digital video connection to DVI output from your set-top box or your satellite receiver. (if applicable) Then, make the corresponding audio connections. Refer to the external video equipment's manual for operating instructions.

How to use
1. Turn on the digital set-top box or your personal computer (Refer to the owner's manual for the digital set-top box.)
2. Use **DVI** button on the remote control to select the source.

(Digital SET-TOP-BOX, Satelite Receiver)

13
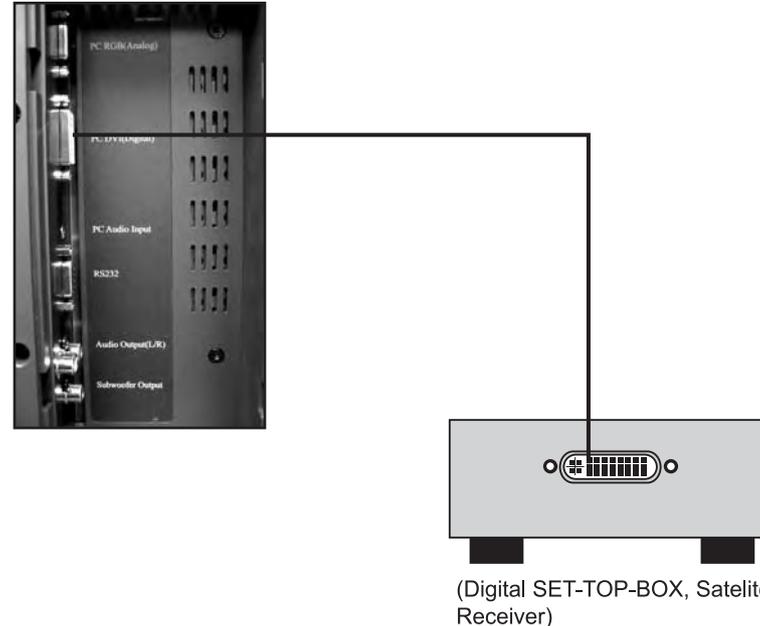
Video Signal Resolution

MODE	Resolution	H/V Frequency	Aspect Ratio	Remarks
480i	704x480	15 kHz, 60/50 Hz	4:3	858x525
	720x480	15 kHz, 50/60 Hz	16:9	858x525
480p	704x480	31 kHz, 60 Hz	4:3	858x525
	720x480	31 kHz, 60 Hz	16:9	858x525
720p	1280x720	33.75 kHz, 60 Hz	16:9	1650x750
1080i	1920x1080	33.75 kHz, 60 Hz	16:9	2200x1125

1

Menu adjustments are available to change the settings of your LCD TV to your preferences. Over the next few pages you will be shown how to adjust all available input sources.

Press the TV button on the remote. Use ▲/▼ button to select each sub menu. Once you've selected your desired menu, you may then use the ◄/► buttons to adjust the setting.

```
1 : TV
2 : OFF   VGA   DVI   YPbPr1   YPbPr2
CHANNEL NO.:   5 STEREO
```

DISPLAY

☞ CONTRAST	44
BRIGHTNESS	35
COLOR	26
HUE	26
SHARPNESS	4
NOISE FILTER	ON

RESET</>

TV

☞ CCD	OFF
V-CHIP	
CHANGE PASSWORD	
CH SCAN	
CATV/AIR	CABLE
CH ADD/DEL	-

AUDIO

☞ VOLUME	7
BASS	12
TREBLE	12
SUBWOOFER	OFF
SURROUND	OFF
BALANCE	– – – – + – – – – L O R

RESET</>

MISCELLANEOUS

☞ OSD TIMER	30 SEC
LANGUAGE	ENGLISH
PIP SIZE	4
PIP POSITION	3

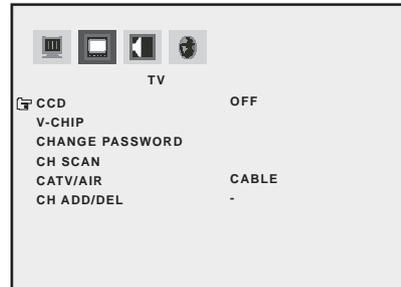Highlight **Contrast** to Increase or decrease the picture contrast.

Highlight **Brightness** to make picture brighter or darker.

Highlight **Color** to increase or decrease the thickness of color.

Highlight **Hue** to change the colors towards a red or green tint.

Highlight **Sharpness** to make the picture sharper or softer.

Highlight **Reset** (►) button to restore all setups of the Display to the default.

Highlight **Volume** to adjust the volume to the level you want.

Highlight **Bass** to Increase or decrease

Highlight **Treble** Increase or decrease

Highlight **Subwoofer** to turn ON or turn OFF the subwoofer.

Highlight **Surround** to turn ON or turn OFF the surround effect.

Highlight **Balance** to adjust the balance between right and left speakers.

Highlight **Reset** (►) to return all Audio items to default.

Highlight **OSD Timer** to select the time to be shown on the menu 5 sec 15 sec 20 sec 25 sec 30 sec.

Highlight **Language** to select language English/French/Spanish/German/ Italian/Japanese/Chinese(Traditional)/Chinese(Simplified).

Highlight **PIP Size** to select the size of small picture. (5 size) (Use this function under PIP Mode).

Highlight **PIP** Position to move the small to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight **Reset** (►) to return all Miscellaneous items to default.

15

S-Video / AV Mode

1 Press the S-Video or AV button on the remote. Use ▲/▼ button to select each sub menu.
Once you've selected your desired menu, you may then use the ◀ / ▶ buttons to adjust the setting.

```
1 : S-Video
2 : OFF   VGA   DVI   YPbPr1   YPbPr2
```

DISPLAY

☞ CONTRAST	44
BRIGHTNESS	35
COLOR	26
HUE	26
SHARPNESS	4
NOISE FILTER	ON
RESET</>	

TV

☞ CCD	OFF
V-CHIP	
CHANGE PASSWORD	

AUDIO

☞ VOLUME	7
BASS	12
TREBLE	12
SUBWOOFER	OFF
SURROUND	OFF
BALANCE	– – – – + – – –
	L O R
RESET</>	

MISCELLANEOUS

☞ OSD TIMER	30 SEC
LANGUAGE	ENGLISH
PIP SIZE	4
PIP POSITION	3
RESET</>	

Highlight **Contrast** to Increase or decrease the picture contrast.

Highlight **Brightness** to make picture brighter or darker.

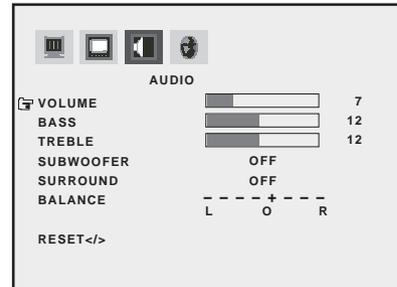Highlight **Color** to increase or decrease the thickness of color.

Highlight **Hue** to change the colors towards a red or green tint.

Highlight **Sharpness** to make the picture sharper or softer.

Highlight **Noise Filter** to filter out the noise.

Highlight **Reset** (▶) button to restore all setups of the Display to the default.

Highlight **Volume** to adjust the volume to the level you want.

Highlight **Bass** to Increase or decrease

Highlight **Treble** Increase or decrease

Highlight **Subwoofer** to turn ON or turn OFF the subwoofer.

Highlight **Surround** to turn ON or turn OFF the surround effect.

Highlight **Balance** to adjust the balance between right and left speakers.

Highlight **Reset** (▶) to return all Audio items to default.

Highlight **OSD Timer** to select the time to be shown on the menu 5 sec 15 sec 20 sec 25 sec 30 sec.

Highlight **Language** to select language English/French/Spanish/German/Italian/Japanese/Chinese(Traditional)/Chinese(Simplified).
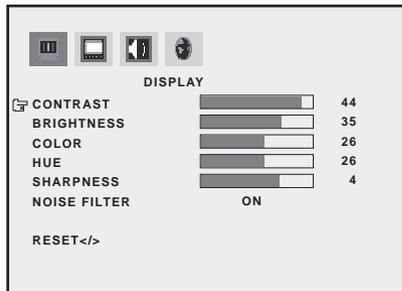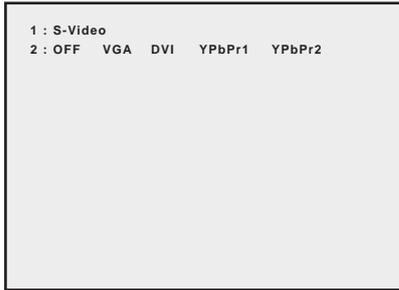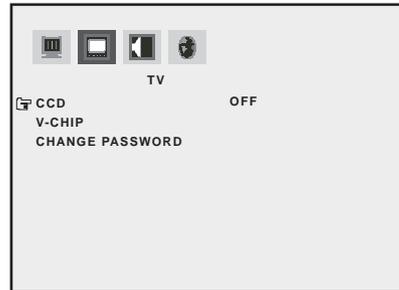
Highlight **PIP Size** to select the size of small picture. (5 size) (Use this function under PIP Mode).

Highlight **PIP** Position to move the small to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight **Reset** (▶) to return all Miscellaneous items to default.

16

1 Press the Component (YPbPr1, or YPbPr2) button on the remote. Use ▲/▼ button to select each sub menu.
Once you've selected your desired menu, you may then use the ◀ / ▶ buttons to adjust the setting.

```
1 : YPbPr1
2 : OFF   TV AV SV
```

```
1 : YPbPr2
2 : OFF   TV AV SV
```

DISPLAY

CONTRAST		42
BRIGHTNESS		35
COLOR		26
HUE		25
SHARPNESS		4
FOCUS		15

RESET</>

AUDIO

VOLUME		7
BASS		12
TREBLE		12
SUBWOOFER	OFF	
SURROUND	OFF	
BALANCE	– – – + – – – L O R	

RESET</>

MISCELLANEOUS

OSD TIMER	30 SEC
LANGUAGE	ENGLISH
PIP SIZE	3
PIP POSITION	4

RESET</>

Highlight **Contrast** to Increase or decrease the picture contrast.

Highlight **Brightness** to make picture brighter or darker.

Highlight **Color** to increase or decrease the thickness of color.

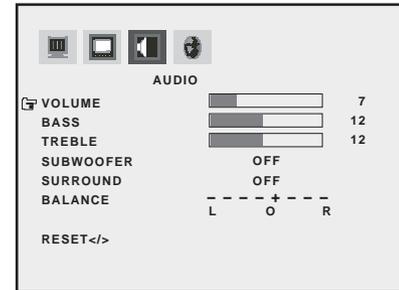Highlight **Hue** to change the colors towards a red or green tint.

Highlight **Sharpness** to make the picture sharper or softer.

Highlight **Focus** to focus the picture.

Highlight **Reset** (▶) button to restore all setups of the Display to the default.

Highlight **Volume** to adjust the volume to the level you want.

Highlight **Bass** to Increase or decrease

Highlight **Treble** Increase or decrease

Highlight **Subwoofer** to turn ON or turn OFF the subwoofer.

Highlight **Surround** to turn ON or turn OFF the surround effect.

Highlight **Balance** to adjust the balance between right and left speakers.

Highlight **Reset** (▶) to return all Audio items to default.

Highlight **OSD Timer** to select the time to be shown on the menu 5 sec 15 sec 20 sec 25 sec 30 sec.

Highlight **Language** to select language English/French/Spanish/German/Italian/Japanese/Chinese(Traditional)/Chinese(Simplified).

Highlight **PIP Size** to select the size of small picture. (5 size) (Use this function under PIP Mode).
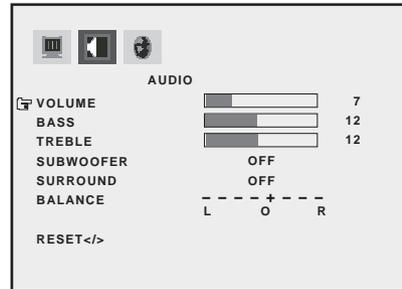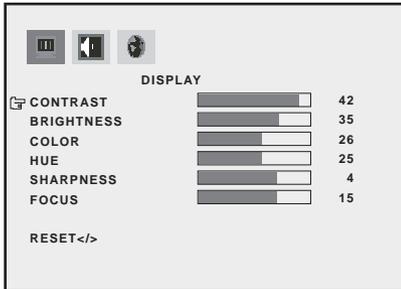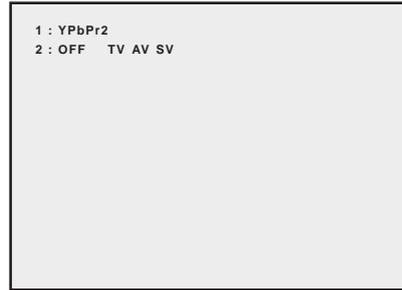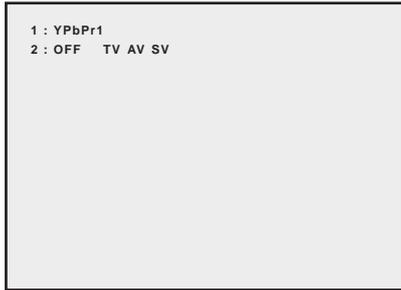
Highlight **PIP** Position to move the small to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight **Reset** (▶) to return all Miscellaneous items to default.

DVI Mode

1 Press the DVI button on the remote then MENU button. Use ▲/▼ button to select each sub menu. Once you've selected your desired menu, you may then use the ◀ / ▶ buttons to adjust the setting.

```
1 : DVI
2 : OFF   TV AV SV
```

DISPLAY

CONTRAST	▓▓▓▓▓▓	35
BRIGHTNESS	▓▓▓▓▓	37

RESET</>

AUDIO

VOLUME	▓▓▓	7
BASS	▓▓	12
TREBLE	▓▓	12
SUBWOOFER	OFF	
SURROUND	OFF	
BALANCE	– – – – + – – – –	
	L O R	

RESET</>

MISCELLANEOUS

OSD TIMER	30 SEC
LANGUAGE	ENGLISH
PIP SIZE	3
PIP POSITION	4

RESET</>

Highlight **Contrast** to Increase or decrease the picture contrast.

Highlight **Brightness** to make picture brighter or darker.

Highlight **Reset** (▶) button to restore all setups of the Display to the default.

Highlight **Volume** to adjust the volume to the level you want.

Highlight **Bass** to Increase or decrease

Highlight **Treble** Increase or decrease

Highlight **Subwoofer** to turn ON or turn OFF the subwoofer.

Highlight **Surround** to turn ON or turn OFF the surround effect.

Highlight **Balance** to adjust the balance between right and left speakers.

Highlight **Reset** (▶) to return all Audio items to default.

Highlight **OSD Timer** to select the time to be shown on the menu 5 sec 15 sec 20 sec 25 sec 30 sec.

Highlight **Language** to select language English/French/Spanish/German/ Italian/Japanese/Chinese(Traditional)/Chinese(Simplified).

Highlight **PIP Size** to select the size of small picture. (5 size) (Use this function under PIP Mode).
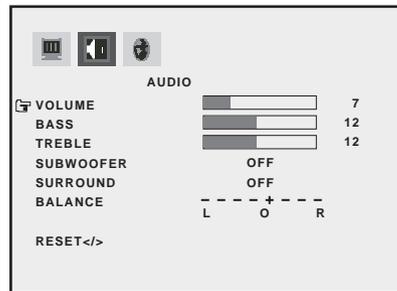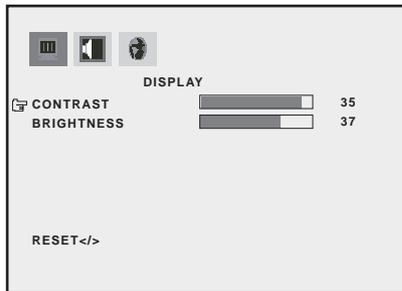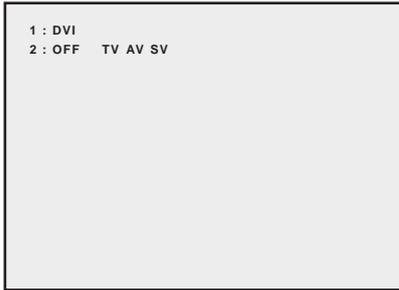
Highlight **PIP** Position to move the small to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight **Reset** (▶) to return all Miscellaneous items to default.

1 Press the VGA button on the remote for the input source when used as a PC Monitor and then use ▲/▼ button to select each sub menu.
Once you've selected your desired menu, you may then use the ◀/▶ buttons to adjust the setting.

```
1 : VGA
2 : OFF   TV AV SV
```

AUTO

DISPLAY

CONTRAST	34
BRIGHTNESS	49
COLOR-TEMP	USER
RED	128
GREEN	128
BLUE	128
WHITE BALANCE	
RESET</>	

GEOMETRIC

CLOCK	1
PHASE	1
H-POSITION	1
V-POSITION	1
RESET</>	

AUDIO

VOLUME	7
BASS	12
TREBLE	12
SUBWOOFER	OFF
SURROUND	OFF
BALANCE	– – – + – – – L O R
RESET</>	

MISCELLANEOUS

OSD TIMER	30 SEC
LANGUAGE	ENGLISH
PIP SIZE	3
PIP POSITION	4
RESET</>	

Highlight **Auto** (Automatic adjustment) for television circuitry to automatically adjust the picture.

Highlight **Contrast** to Increase or decrease the picture contrast.

Highlight **Brightness** to make picture brighter or darker.

Highlight **Red** to increase or decrease red tint.

Highlight **Green** to increase or decrease green tint.

Highlight **Blue** to increase or decrease blue tint.

Highlight **Reset** (▶) button to restore all setups of the Display to the default.

Highlight **Clock** to stabilize the display of VGA images.

Highlight **Phase** to adjust the focus and sharpness of VGA images.

Highlight **H-Position** to adjust the horizontal position of VGA images.

Highlight **V-Position** to adjust the vertical position of VGA images.

Higlight **Reset** (▶) to return adjustments to default.

Highlight **Volume** to adjust the volume to the level you want.

Highlight **Bass** to Increase or decrease

Highlight **Treble** Increase or decrease

Highlight **Subwoofer** to turn ON or turn OFF the subwoofer.

Highlight **Surround** to turn ON or turn OFF the surround effect.

Highlight **Balance** to adjust the balance between right and left speakers.

Highlight **Reset** (▶) to return all Audio items to default.

Highlight **OSD Timer** to select the time to be shown on the menu 5 sec 15 sec 20 sec 25 sec 30 sec.

Highlight **Language** to select language English/French/Spanish/German/Italian/Japanese/Chinese(Traditional)/Chinese(Simplified).

Highlight **PIP Size** to select the size of small picture. (5 size) (Use this function under PIP Mode).
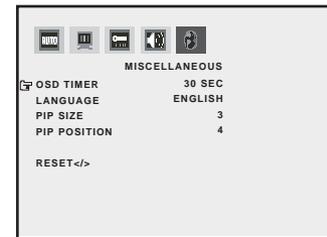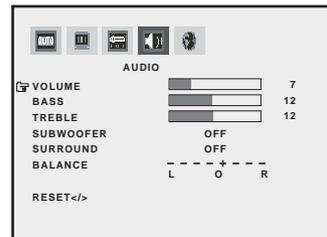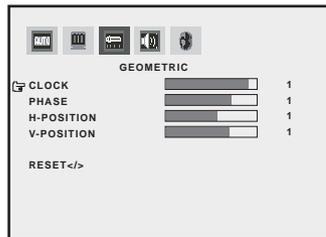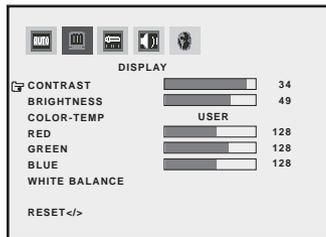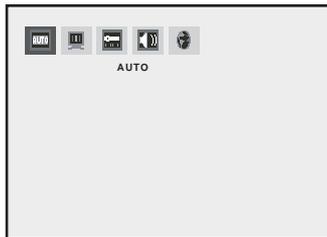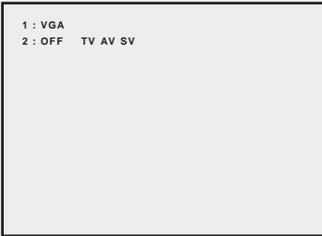
Highlight **PIP** Position to move the small to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight **Reset** (▶) to return all Miscellaneous items to default.

```
🖥  🖳  🎴  🌐
         TV
📑 CCD              OFF
   V-CHIP
   CHANGE PASSWORD
   CH SCAN
   CATV/AIR         CABLE
   CH ADD/DEL       -
```

Press the TV button on the remote then MENU button. Then press ▶ button once. Use ▲/▼ button to select each sub menu.
Once you've selected your desired menu, you may then use the ◀ / ▶ buttons to adjust the setting.

Descriptions

CC
Use this to activate the subtitle and teletext function. Each sequential press of the CC button will show CCI-CC4, T1-T4, OFF.

V-CHIP (grading system)
Enter password to enter the MENU for V-CHIP settings. You can press button to select the grade you want; and then press button to set up if you'd like to watch the programs.

Change Password (change the password for grading)
Press button and enter the original password (defaulted as 0000). You'll see the New Password prompt. Enter the password you choose and quit.

CH Scan (automatic channel scanning)
To activate CH Scan, press button to execute the automatic channel scanning. You need to execute the automatic channel scanning when you install your LCD TV the first time.

CATV / AIR (TV signal source)
Antenna Cable
Press button on the remote control to select
Cable: If you receive channels through CATV.
Antenna: If you receive channels through antenna.

ADD/DEL Channels
Press button on the remote control to select the channel you wish to +(ADD) / - (DEL) by scrolling using CH ▲/▼
.

TV Rating		
	Y7	suitable for older kids
	PG	parental guidance required
	14	parents should be aware if the programs are suitable for children
	MA	adults only
	FV	fantasy and violence
	D	some sexual content and dialogue
	L	low level of content and profanity
	S	Sex
	V	Violence

MAPP Rating		
	G	suitable for general audience
	PG	parental guidance required suitable for kids less than 13 years
	PG-13	underparental supervision
	R	rated, children under 17 should be accompanied by parents
	NC-17	children under 17 are not allowed
	X	adult

V-CHIP

MPAA RATING

G	PG	PG-13	R	NC-17	X
U	U	U	U	U	U

TV RATING

	FV	V	S	L	D
TV-Y7	U				
TV-PG		U	U	U	U
TV-14		U	U	U	U
TV-MA		U	U	U	

B: BLOCKED (NOT ALLOWED TO WATCH THIS PROGRAM)

U: UNBLOCKED (ALLOWED TO WATCH THIS PROGRAM)

1 : TV
2 : OFF   VGA   DVI   YPbPr1   YPbPr2
CHANNEL NO. :114 MONO

In order to use the PIP feature you must take note of the input selected as the main (larger) picture. You should familiarize your-self with this page as not all inputs connected to the television are available using the PIP feature.

Main Signal

PIP Signal

PIP Modes That Function Together are Checked below:

Main Signal	PIP Signal					
	TV	AV	SV	YPbPr	VGA	DVI
TV				✔	✔	✔
AV				✔	✔	✔
SVIDEO				✔	✔	✔
YPbPr 1/2	✔	✔	✔			
VGA	✔	✔	✔			
DVI	✔	✔	✔			

IE: While in TV mode your PIP will display those signals connected to YPbPr, VGA and DVI only.

PIP Mode

Your LCD TV can display the main signal and an auxillary signal input simultaneously.
The PIP signal appears in a small box within the screen when the PIP feature's activated.

Refer to the chart at right as to the inputs allowed using PIP when viewing your main signal.

To Activate PIP

While your main signal is on, press PIP on the remote control.

As an example, we will use TV as your main signal. While your main signal (TV) is displayed, press PIP from the remote. An OSD will appear with the source input options available to display in the PIP box.

Press "PIP-Input" on remote to select an input option.

Press "Swap" to change signal sources.

Press "PIP-SIZE" to change the size of your PIP image.

Press "PIP-POS" to reposition PIP image in other corners of your display.

RGB Mode

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
EGA	640x350	31.468	70.09
		37.861	85.08
DOS	720x400	31.469	70.08
		37.927	85.03
VGA	640x480	31.469	59.94
		37.861	72.80
		37.500	75.00
		43.269	85.00
		53.011	100.04
		64.062	120.00
SVGA	800x600	35.156	56.25
		37.879	60.31
		48.077	72.18
		46.875	75.00
		53.674	85.06
		56.000	90.00
		64.016	100.00

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
XGA	1024x768	48.363	60.00
		56.476	70.06
		60.023	75.02
		68.677	84.99
SXGA	1152x864	54.348	60.05
		67.500	75.00
		77.487	85.05
WXGA	1280x768	47.7	60.00
		60.15	75.00
		68.596	85.00
SXGA	1280x960	60.000	60.00
		75.000	75.00
	1280x1024	63.981	60.02
		79.676	75.02
MAC	832x624	49.725	74.55

(Synchronization input form: separate)

Note:
a. If the set is cold, there may be a small "flicker" when the set is switched on. This is normal, there is nothing wrong with the set.
b. If possible, use the VESA 1,024x768@60Hz video mode to obtain the best image quality for your LCD monitor. If used to PC vertical frequency 85Hz, some noise can be seen when PIP is on. In this case, set the PC vertical frequency to 60Hz. The set has been pre-adjusted to the mode VESA 1,024x768@60Hz.

DVI Mode

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
EGA	640x350	31.468	70.09	XGA	1024x768	48.363	60.00
EGA	640x350	37.861	85.08	XGA	1024x768	56.476	70.06
DOS	640x400	31.469	70.08	XGA	1024x768	60.023	75.02
DOS	640x400	37.927	85.03	XGA	1024x768	68.677	84.99
VGA	640x480	31.469	59.94	SXGA	1152x864	54.348	60.05
VGA	640x480	37.861	72.80	SXGA	1152x864	67.500	75.00
VGA	640x480			SXGA	1152x864	77.487	85.05
VGA	640x480	37.500	75.00	WXGA	1280x768	47.7	60.00
VGA	640x480			WXGA	1280x768	60.15	75.00
VGA	640x480	43.269	85.00	WXGA	1280x768	68.596	85.00
SVGA	800x600	35.156	56.25	SXGA	1280x960	60.000	60.00
SVGA	800x600	37.879	60.31	SXGA	1280x960	75.000	75.00
SVGA	800x600	48.077	72.18	SXGA	1280x1024	63.981	60.02
SVGA	800x600	48.875	75.00	MAC	832x624	49.725	74.55
SVGA	800x600	53.674	85.06	MAC	832x624	49.725	74.55

(Synchronization input form: separate)

c. Some dot defects may appear on the screen, like Green or Blue spots. However, this will have no impact or effect on the monitor performance.

d. Do not press the LCD screen with your finger for a long time as this may produce some temporary distortion effects on the screen.

e. When the PC screen appears on the set, a message may appear on the screen, and the message will differ according to the Window system version (Win98, 2000). If a message appears click "Next" until the message finishes.

f. If the message "Not accepted" appears on the screen, adjust the PC as in the 'Displayable Monitor Specification' section.

We encourage you to visit our website at www.apexdigitalinc.com and review the customer support and FAQ's page for updates to this list. You may register to activate your warranty at our website and order accessories for your product.

Problems	Reasons	Solutions
No picture	Did you connect the power cord? Did you turn on power? Is the signal line connected correctly? Is the screen under the energy-saving mode?	Connect power cord correctly. Turn on power. Reconnect Antenna cable Press the input button to cycle through the connected video sources
Abnormal colors	Is signal line connected correctly?	Connect signal line correctly.
Twisted picture	Is the signal line connected correctly? Is input signal larger than the rated frequency?	Connect signal line correctly. Please use the rated signal.
Picture too dark	Are brightness and contrast set at the lowest level?	Adjust brightness and contrast.
Voice only, no images	Is input signal connected correctly? Is TV signal too weak?	Please check if input signal is correct. Please check if signal is connected correctly. TV-RF signal must not be lower than 70dB.
Picture only, no voice	Is signal line connected correctly? Is volume at the minimum level? Is audio signal line not connected? Is TV signal too weak?	Connect signal line correctly. Adjust volume to proper level. Connect audio signal line correctly. TV-RF signal must not be lower than 70dB. Press the Mute button to cycle through "Mute" and "Unmute"
Remote control doesn't operate	Please check if battery is still charged. Is there any disturbance from static or thunder?	Change the battery, it may be weak. Turn off power for 10 seconds; and then restart power. Check polarity of batteries Locate TV away from nearby fluorescent lights

Problems	Possible solutions
Cannot receive certain channels through antenna	Use the automatic scanning function to add the channels not included in memory.
No color	Please adjust the color setup at the menu.
Video noise or choppy picture	Adjust antenna. Keep TV away from noise source, neon lights, and wattage appliance.
TV blocked at certain channels	Use the automatic scanning method to add the channels not included into memory. Check parental control
Overlapping images or ghost image	Use directional outdooor antenna or a cable surface
Cannot use the functions	If the item you choose turns gray, that item cannot be selected.
No sound	Connect audio cables into appropriate terminal. Verify you have selected the correct audio source from your amplifier Mute function may be enabled
Black box on screen	The "Text" option is enabled and no text is available. Disable "Text" in the setup menu.

Display panel	Screen Size	597.12(H) X 335.88(V)mm (diagonal 26.97 inches)
	Aspect Ratio	16:9 WIDE
	Pixel Pitch	0.1555(H) X 0.4665(V)mm
	Number of Pixels	1280(H) X 720(V)
	Luminance	550cd/m (Typical)
	Contrast	600:1(Typical)
	Response Time	16ms
	Viewing Angle	Typical 170 Degree(Horizontal/Vertical)
Signals Input / out	Video in	RCA Jack X 1
	S-Video in	Y/C X 1
	Component in	YPbPr X 2
	Tuner in	NTSC
	Audio in	RCA Jack(R+L)X 4
		PC Audio In X 1
	VGA in	D-sub 15 pin 3 row type
	DVI in	DVI 29 pin (support HDCP)
	RS232 in	D-sub 9 pin (for software update only)
	Audio out	RCA Jack(R+L) X 1 / Subwoofer RCA Jack X 1
	PIP	1 Mode (5 Size)
	Display Mode	4:3 Mode, Panoramic, Fill All, Wide
Compatibility	Color system	NTSC
	Video system	NTSC
	PC/Mac	VGA/SVGA/XGA/SXGA
	SDTV/HDTV scanning format	1080i, 720p, 480p, 480i (NTSC)
Audio Output	Built-in speaker	8w + 8w (Stereo)
	Subwoofer	RCA Jack X 1
Regulation	Accessories	VGA Cable / Power Cable
		User's Manual
		AV Cable / Remote controller / Batteries
Other	Power Source	Input : 100-240V, 2.4A, 50-60Hz
	Operative temperature	0~40ºC

Limited North American Warranty

Apex Digital AVL2776

Apex Digital makes the following limited warranties. These warranties extend to the original consumer purchaser or product received as a gift and no other purchaser or transferee. You must retain the original bill of sale for proof of purchase.

Limited One (1) Year Warranty

Apex Digital warrants the parts in this product against defects in material or workmanship for a period of one (1) year after date of original purchase with the exception of the remote control which is guaranteed for 90 days. During this period Apex Digital will replace a defective part with a new or refurbished part without charge to you. You are responsible to pay all labor charges involved in the part replacement including all packing, transportation and insurance charges for the set to the Service Center. You must receive a return authorization number before sending unit in for repair.

Limited Ninety (90) Day Warranty

Apex Digital warrants this product and its parts against defects in material or workmanship for a period of ninety days after the date of original retail purchase. During this period, Apex Digital will repair or replace a defective part or product at its sole option, with a new or refurbished part or product without charge to you except for shipping charges to the Service Center. If there is a Service Center located locally in your area, Service Center personnel may come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the Authorized Service Center's repair facility and then return it to your home at no cost.

Rental Product

The warranty for a rental product begins with the original date of receipt by the rental firm.

Your Responsibility

The above warranties are subject to the following conditions:

- You must retain the original bill of sales to provide proof of purchase. There are no exceptions.
- You must call the provided phone number for an assessment of the problem and no service or shipment of product will be accepted unless an RMA# is provided, attached to shipping carton along with bill of sale
- These warranties are effective only if product is purchased through an Authorized retail reseller and the unit is operated in North America.
- Labor service charges for set installation, setup, adjustment of consumer controls and installation or repair of any type of antenna or cable systems are not covered by this warranty. Reception problems caused by inadequate antenna or cable systems are your responsibility
- Warranties extend only to defects in materials or workmanship as limited above and do not extend to any other products or parts that have been lost, discarded or damaged by misuse, accident, neglect, acts of God, such as lightning or voltage surges in the home, improper installation, improper maintenance or use in violation of instructions provided or product which has been modified, had serial number removed, altered, or rendered illegible. Warranties do not cover cosmetic damage, lost accessories or stuck pixels in the screen panel.

How to Obtain Warranty Service

If after following the operating instructions, the Troubleshooting Guide and the FAQ pages on televisions, found at our website, www.apexdigitalinc.com...

1. Should it be necessary to contact Customer Service Center directly, call (800)880-1227 Monday through Friday, 8am to 6pm (Pacific Time). You will be instructed on how your claim will be processed.
2. Have your pertinent information available including proof of purchase and an understanding of the complaint.

Limitations

All warranties implied by state law are expressly limited to the duration of the limited warranties set forth above with the exception of warranties implied by state law as herby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements etc., with respect to repair or replacement of any parts. Apex Digital shall not be liable for consequential or incidental damage

The warranty gives you specific rights and you may also have these rights that may vary from state to state. Some states do not allow limitation on how long a warranty lasts, or the exclusions or limitation of incidental or consequential damages, so the above may not apply to you