



20" LCD TV



AVL-2076

User Manual

Register your product to validate your warranty online



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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. Attachments

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

9. 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.



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.

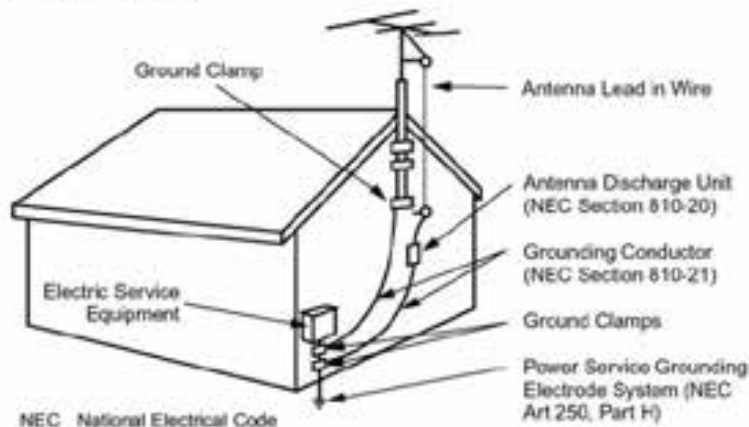
16. Power Lines

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.

Example of Grounding According to National Electrical Code Instructions



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:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or the cabinet has been damaged.
- 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.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING:

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



The lightning 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) instructions 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.

Congratulations!

Thank you for purchasing the Apex Digital AVL2076 20" LCD Television. This LCD TV is designed to be versatile, ergonomic, and easy-to-use. It has a wide variety of inputs for connecting to most any video device you already own.

Please take a moment and inspect the contents of your LCD display. You should have:

- 20" LCD TV and display base
- AC power cord and power adapter
- Remote Control (2 "AAA" batteries included)
- Cables:
 - 15 pin D-sub VGA cable
 - Composite video cable (yellow ends)
 - Stereo audio cable (red and white ends)

If any of these items are missing, please contact your retailer immediately. Please keep the original carton and packing materials, as they are the best method of transportation for your LCD TV, in case of moving or warranty repair.

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Remote Control Functions

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

1. POWER

Turns the LCD display on or off.

2. MTS

Cycles through available sound options on certain television programming.

3. MUTE

Press once to turn off the sound of the LCD TV. Press again, or press volume +/-, to restore the sound.

4. ADD (FAV CH)

Allows for programming of favorite channels. Go to the channel to be memorized and press the ADD key.

5. DEL (FAV CH)

Allows for quick deletion of favorite channels. Press the DEL key, and select the channel to delete.

6. SLEEP

Shuts off the LCD TV after a preset time. Press SLEEP multiple times to choose 30, 60, or 90 minutes.

7. FAV CH ▲ ▼

Cycles through your stored favorite channels.

8. INPUT - MAIN/PIP (MAIN p. 9-10; PIP p. 16)

Cycles through the available video sources. Pressing MAIN will change the main display input; pressing PIP will change the PIP window input, if it is active. Available options are TV, AV, S Video, YPbPr, VGA.

9. SWAP - VIDEO/AUDIO

Changes the active video or audio source. Pressing AUDIO will swap the audio being heard on the speakers between the main display and ther PIP window. Pressing VIDEO will swap the images being seen between the main display and PIP window.

10. NUMERIC KEYPAD (0~9)

Allows direct entry of channel numbers, up to 99.

11. "100"

Allows entry of channels over 100. Press 100, then the next two numbers. Highest channel number is 125.

12. RETURN

Returns to last channel viewed

13. DISPLAY

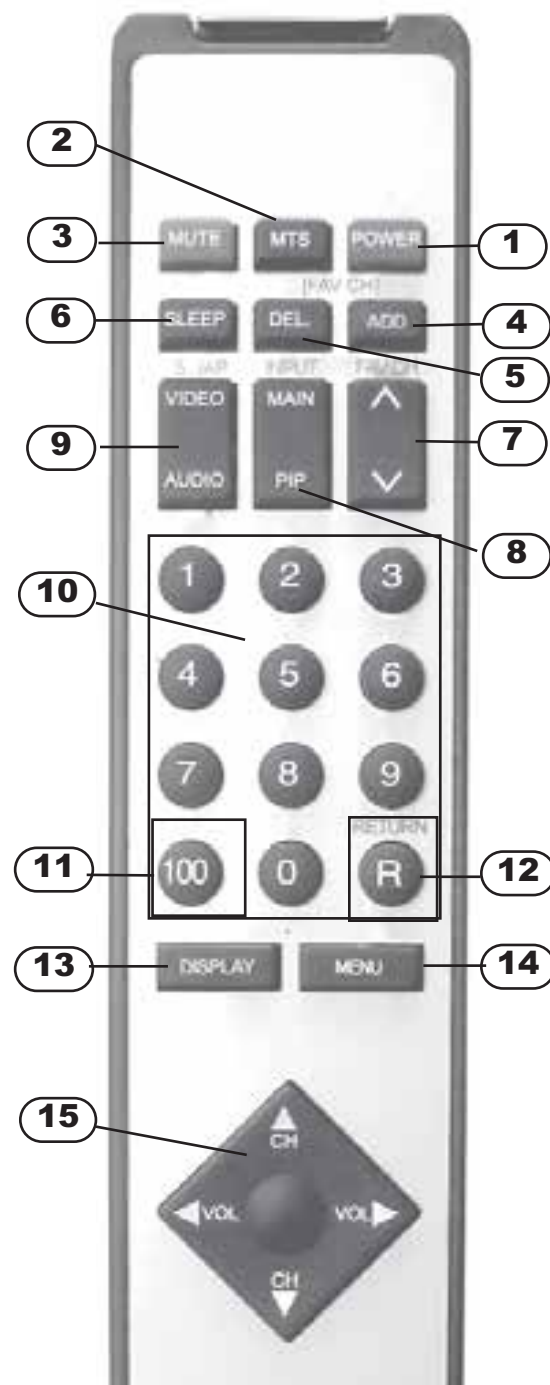
Displays current settings on the LCD TV screen.

14. MENU (p. 11-14)

Activates on screen menu for LCD TV adjustments.

15. DIAMOND (CH ▲ ▼ VOL ◀ ▶)

Allows for volume adjustment (side to side) and channel changing (top to bottom) These keys are also used when navigating the on screen menus.



Your remote control requires two "AAA" batteries (included.)

INSTALLATION INSTRUCTIONS

1

Remove the rear cover by pressing firmly in the middle of the cover and sliding it down, towards to bottom of the remote. Then, lift the cover off of the remote control.



2

Insert the two batteries. Make sure the positive (+) and negative (-) signs on the remote control and the batteries line up.

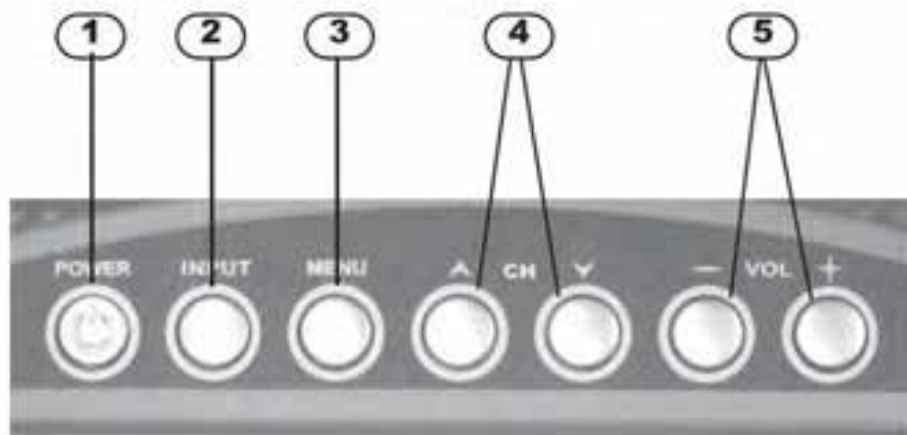


3

Replace the rear cover, by grasping it and sliding it upwards, towards the top of the remote.



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



These controls are located on the top right of the LCD TV.



1. POWER

Press the power button to turn on/off the LCD TV. When the power is on, the LED indicator turns green. The screen image will appear after a few seconds. When the power is off, the LED indicator turns red.

2. INPUT

After connecting your DVD, VCR, or other devices, press the INPUT button to cycle between the various inputs. They are:

TV
AV
S-VIDEO
YPbPr
VGA (D sub 15 pin)

3. MENU

Press the MENU button to activate the on-screen menu. Use the remote control, or the channel & volume buttons on the panel, to navigate the on-screen menu.

4. CHANNEL ▲ ▼

Press the ▲ ▼ button to select the channel in TV mode, or to navigate in MENU mode.

5. VOLUME ◀ ▶

Press ◀ ▶ button to adjust volume. These buttons are also used to adjust settings in the MENU mode.

1) TV (RF Jack)

For connection of RF cable from antenna or other device

2) AUDIO IN

Stereo audio connection for a device connected to AV or S-VIDEO

3) VIDEO IN

Composite video connection; shares audio with S-VIDEO IN

4) S-VIDEO IN

S-Video connection; shares audio with VIDEO IN (cable not included; quality superior to composite)

5) AUDIO IN 2

Stereo audio connection for device connected to COMPONENT

6) COMPONENT

Component video connection (cable not included - best possible quality)

7) VGA

VGA connection for set-top box or PC

8) PC AUDIO IN

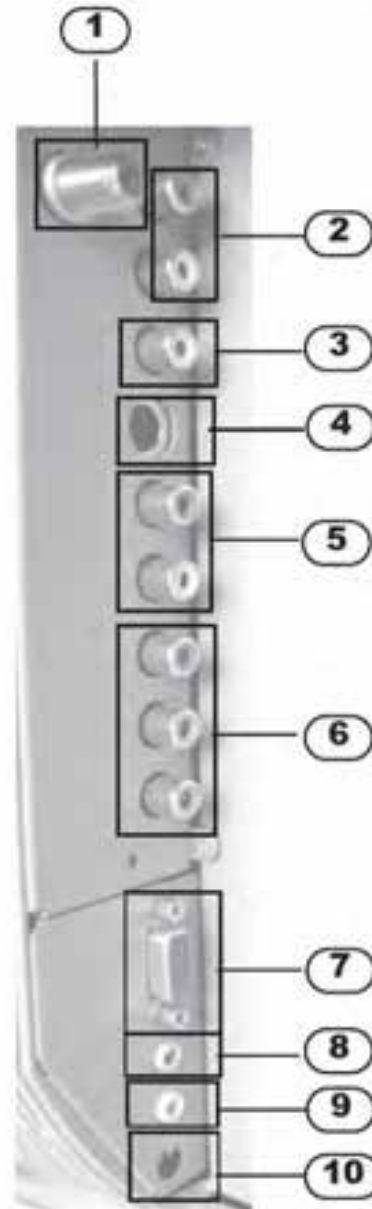
PC Audio input for VGA connection

9) AUDIO OUT

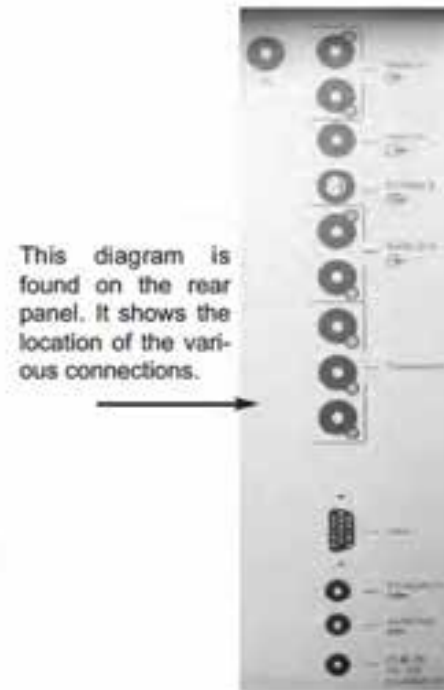
PC Speaker connection for audio output

10) DC 12V

DC 12V connection for LCD display power supply



These inputs are found on the right-hand side of the rear panel of the LCD TV.



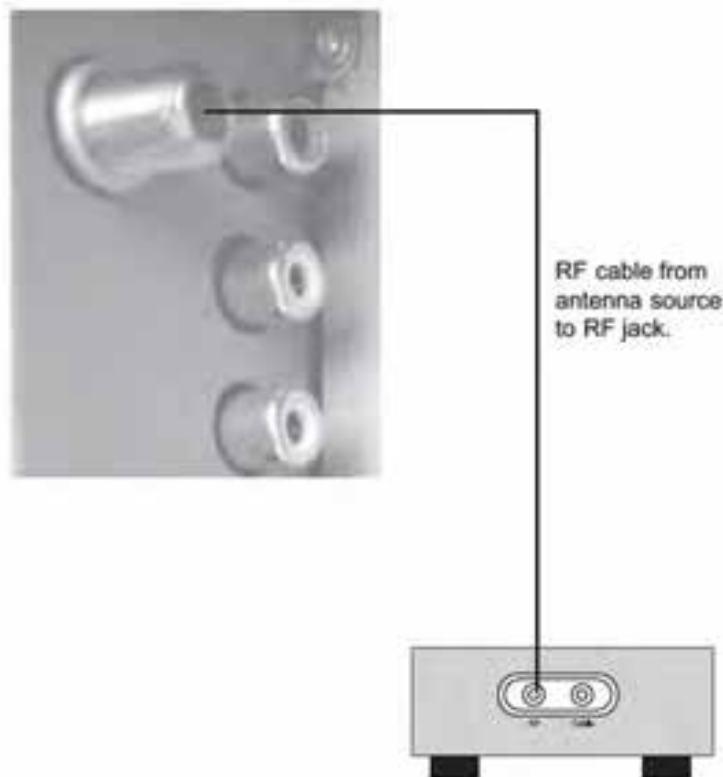
This diagram is found on the rear panel. It shows the location of the various connections.

You can connect external video devices, such as DVD players, VCRs, cable box, camcorders, etc., to your LCD TV. However, please check with your device's instruction manual for more specific connecting information. Make sure that all devices are unplugged before any connections are made. The diagrams shown may be different from your set.

Connecting via the RF Connector

Using a coaxial RF cable, connect the RF out from the external device, cable box, or antenna to the TV input (RF jack) on the back of the LCD TV.

Set the LCD TV to TV mode, and select the appropriate channel. If you are not using an over-the-air antenna, the correct channel is usually 3 or 4. Please consult your device's user manual for additional information.



Connecting via Composite Video or S-Video

COMPOSITE VIDEO

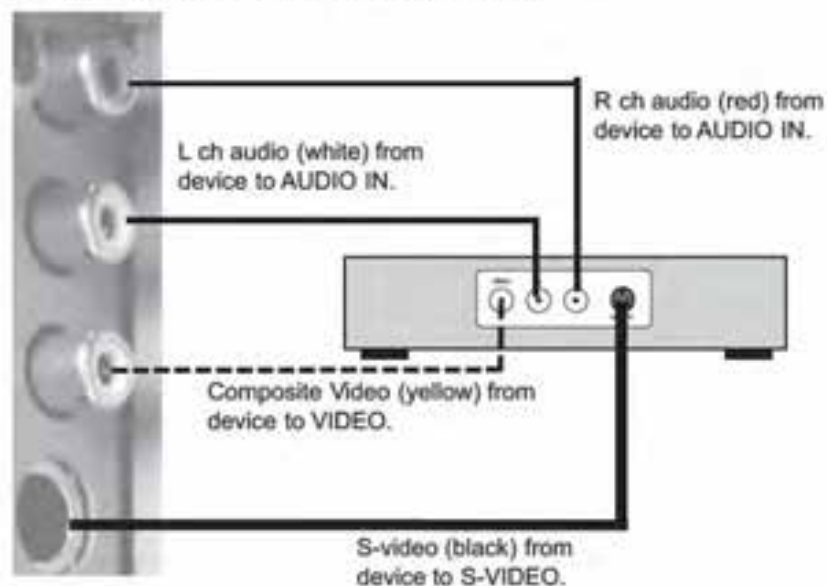
Using a composite video cable (yellow), connect the video output of the device to the VIDEO input on the back of the LCD TV. Most devices, including the LCD TV, use a yellow jack for the composite video connection.

S-VIDEO

Using an S-video cable (not included), connect the S-video output of the device to the S-VIDEO input on the LCD TV. Please note the placement of the pins, as improper installation may result in bent pins on your cable, and poor picture quality. S-Video cables may be found at your local electronics retailer.

AUDIO

Using the red and white audio cables, connect the audio output of the device to the AUDIO IN input on the back of the LCD TV. Make sure you match the colors properly, or you may get poor sound quality. (NOTE - the COMPOSITE and S-VIDEO jacks share the audio port, so only one of them may be used at a time.)



You can connect external video devices, such as DVD players, VCRs, cable box, camcorders, etc., to your LCD display. However, please check with your device's instruction manual for more specific connecting information. Make sure that all devices are unplugged before any connections are made. The diagrams shown may be different from your set.

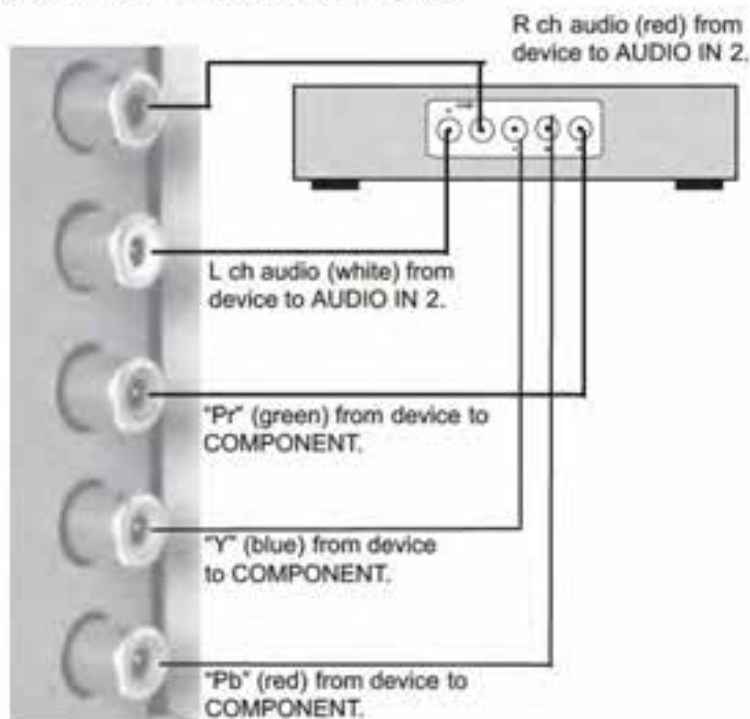
Connecting via Component Video (YPbPr)

COMPONENT

Using a component video cable (not included), connect the component video output of the device to the COMPONENT input on the LCD TV. Please be sure to match the colors of the cables to the colors of the jacks, as improper placement will result in picture distortion. Use of component video offers the best of video performance. Component video cables may be found at your local electronics retailer.

AUDIO

Using the red and white audio cables, connect the audio output of the device to the AUDIO IN 2 input on the back of the LCD TV. Make sure you match the colors properly, or you may get poor sound quality. (NOTE - Be careful not to confuse the red AUDIO jack with the red COMPONENT jack.)



Connecting via VGA

VGA (PC only)

Using a VGA (D sub 15 pin) cable, connect the VGA output of your PC to the VGA input on the LCD TV. Be careful to match the shape of the connector to the connection, and not to bend any of the pins when installing. (NOTE: For best performance, set the resolution on your PC to 640x480.)

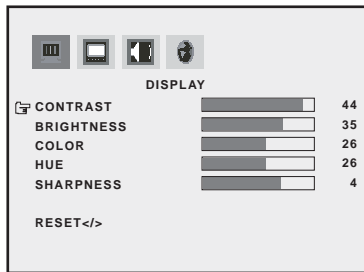
AUDIO

The VGA audio connection is a single wire PC-type connection. Connect the 3.5mm stereo cable from the sound output of your PC to the PC Audio input on the LCD TV.



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 MAIN button on the remote until TV mode is displayed. Use \blacktriangle / \blacktriangledown buttons on the 'diamond' to select each sub menu. Once you've selected your desired menu, you may then use the \blacktriangleleft / \blacktriangleright buttons on the 'diamond' to adjust the settings.



Highlight Contrast to Increase or decrease the picture contrast.

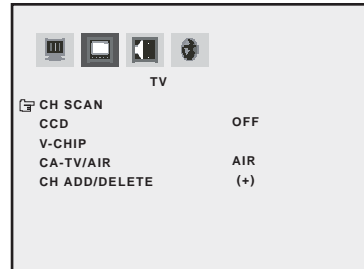
Highlight Brightness to make picture brighter or darker.

Highlight Color to increase or decrease the saturation of color.

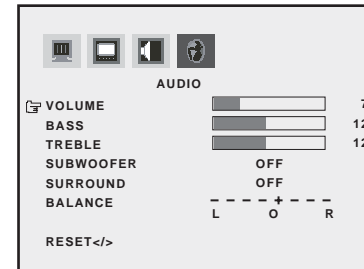
Highlight Hue to change the colors towards a red or green tint.

Highlight Sharpness to make the picture sharper or softer.

Highlight Reset (\blacktriangleright) button to restore all setups of the Display to the default.



Refer to page 15.

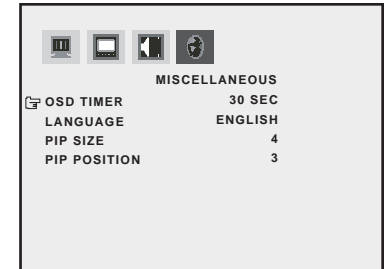


Highlight Volume to adjust the volume to the level you want.

Highlight Bass to Increase or decrease

Highlight Treble to Increase or decrease

Highlight Reset (\blacktriangleright) 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.

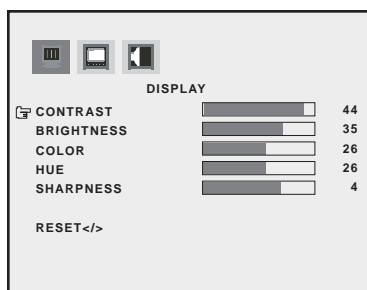
Highlight Language to select:
English French Spanish German
Italian Japanese Chinese
(Traditional) Chinese(Simplified).

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 picture to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight Reset (\blacktriangleright) to return all Miscellaneous items to default.

Press the MAIN button on the remote until AV or S-VIDEO mode is displayed. Use $\blacktriangle/\blacktriangledown$ buttons on the 'diamond' to select each sub menu. Once you've selected your desired menu, you may then use the $\blacktriangle/\blacktriangleright$ buttons on the 'diamond' to adjust the settings.



Highlight Contrast to Increase or decrease the picture contrast.

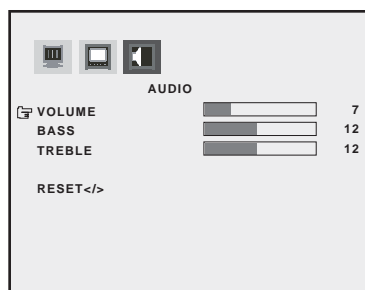
Highlight Brightness to make picture brighter or darker.

Highlight Color to increase or decrease the saturation 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 (\blacktriangleright) button to restore all setups of the Display to the default.

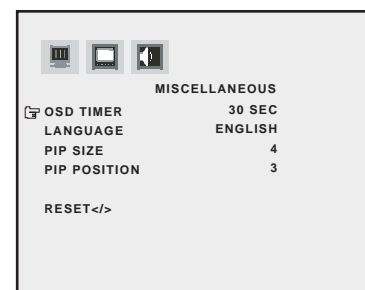


Highlight Volume to adjust the volume to the level you want.

Highlight Bass to Increase or decrease

Highlight Treble Increase or decrease

Highlight Reset (\blacktriangleright) 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:
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).

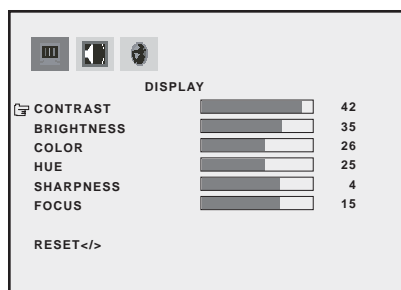
Highlight PIP Position to move the small picture to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

Highlight Reset (\blacktriangleright) to return all Miscellaneous items to default.

Menu Adjustments

Component (YPbPr) Mode

Press the MAIN button on the remote until COMPONENT (YPbPr) mode is displayed. Use ▲/▼ buttons on the 'diamond' to select each sub menu. Once you've selected your desired menu, you may then use the ◀/▶ buttons on the 'diamond' to adjust the settings.



Highlight Contrast to Increase or decrease the picture contrast.

Highlight Brightness to make picture brighter or darker.

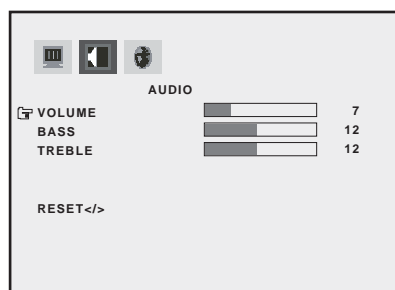
Highlight Color to increase or decrease the saturation of color.

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.

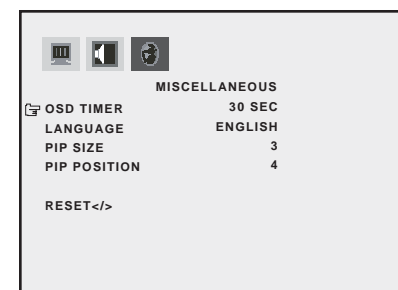


Highlight Volume to adjust the volume to the level you want.

Highlight Bass to Increase or decrease

Highlight Treble Increase or decrease

Highlight 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.

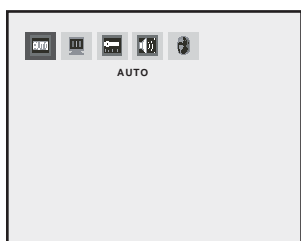
Highlight Language to select:
English French Spanish German
Italian Japanese Chinese (Traditional)
Chinese(Simplified).

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

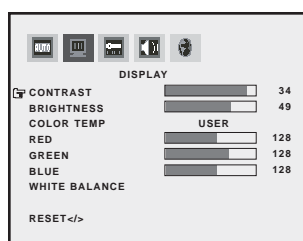
Highlight PIP Position to move the small picture to upper left, upper right, center, lower left, or lower right.(Use this function under PIP Mode).

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

Press the MAIN button on the remote until VGA mode is displayed. Use ▲/▼ buttons on the 'diamond' to select each sub menu. Once you've selected your desired menu, you may then use the ◀/▶ buttons on the 'diamond' to adjust the settings.



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.

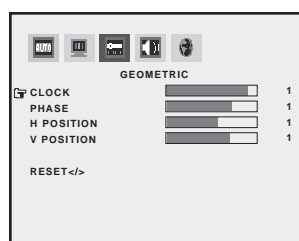
Highlight Color Temp to select a color setting High, Mid, Low or User.

In User mode, red, green and blue can be manually adjusted (see below.)

Highlight Red, Green, or Blue to manually adjust the level of that particular color.

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

Highlight White Balance to have the LCD TV self adjust the white balance. You will need to display a 2" x2" square in the center of the screen. Special home video calibration DVDs can do this. Check with your retailer for further information.



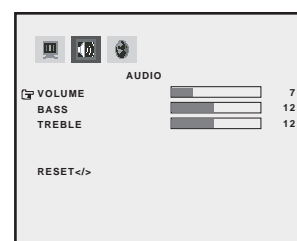
Highlight Clock to stabilize the display of VGA images.

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.

Highlight 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 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:
English French Spanish
German Italian Japanese
Chinese (Traditional)
Chinese(Simplified).

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

Highlight PIP Position to move the small picture 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.

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	
CCD	Use this to activate the subtitle and teletext function. Each sequential press of the CCD 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.
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)	Press button on the remote control to select either Cable or Antenna. 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	Directed Towards Older Children
	PG	Parental Guidance Suggested
	TV 14	Parents Strongly Cautioned
	MA	Mature Audiences Only
	FV	Fantasy Violence
	D	Sexual Dialogue
	L	Adult Language and Profanity
	S	Sex
	V	Violence
	MPAA Rating	G
PG		Parental Guidance Suggested (Some Material May Not Be Suitable for Younger Children)
PG 13		Parents Strongly Cautioned (Some Material May Not Be Suitable for Children Under 13)
R		Restricted (Not Recommended for Ages 17 and Under)
NC 17		Children Under 17 Not Permitted
X		Adult Material

		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)**

Please visit these websites for further information regarding motion picture and television ratings:

TV - <http://www.tvguidelines.org/>
Movies - <http://www.mpa.org/>



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

Main Signal

PIP Signal

PIP Mode

Your LCD TV can display a signal input in the main area of the screen, and an auxiliary signal input simultaneously.

The PIP signal appears in a small box within the screen whenever the PIP feature is activated.

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

PIP Window Position and PIP Window Size can be adjusted from the main menu. Please see p. 11-14 for further details.

To Activate PIP

Press PIP on the remote control to activate the PIP feature.

For example, say you are watching TV in TV mode. 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 your remote to select an input option.

Press "Swap" to switch the PIP screen to the main screen, and the main screen to the PIP screen.

PIP Modes That Function Together are Checked below:

	TV	AV	S-VIDEO	YPbPr	VGA
TV				X	X
AV				X	X
S-VIDEO				X	X
YPbPr	X	X	X		
VGA	X	X	X		

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 should register to validate your warranty at this website. You can also order accessories for all of your Apex products.

Problems	Solutions		
No picture	Connect power cord correctly. Turn on power via the button on LCD TV. (p. 7) Check your video connections. (p. 9-10) Press the input button to cycle through the connected video sources (p. 5)	Cannot receive certain channels through antenna	Check for the correct antenna setting (p. 15) Use the Channel Scan feature (p. 15) Adjust or relocate your antenna.
		Video noise or choppy picture	Check your video connections. (p. 9-10) Use a power conditioner on the AC adapter. See your local electronics retailer for one of these.
Abnormal or no colors	Check your video connections for correct cable placement or bent pins. (p. 9-10) Check your video input device for its settings. If the device is setup incorrectly, then it can produce an improper signal. Please check your device's user's manual for more information.	TV blocked at certain channels	Check the V-Chip functions (p. 15) Check your antenna
		Overlapping images or ghost image	Check your antenna connection. (p. 9) Adjust or relocate your antenna. Use a different video connection, if available. (p. 9-10)
Distorted picture Fuzzy picture	Check your antenna connection. (p. 9) Adjust your antenna. Relocate your antenna.	Black box on screen	Make sure the CC/TT function is off. (p. 15) Check the settings on the video input device. Some movies have black bars around them to preserve the widescreen format. This is not a malfunction - it is a part of the movie or program.
Picture too dark	Check brightness (p. 11-14) Check contrast (p. 11-14) Check white balance (VGA only - p. 14)	Remote control does not operate	Change the batteries, and make sure they are inserted properly (p. 6) Make sure remote is pointed at the remote sensor on the front of the LCD TV. Move LCD TV away from fluorescent lights.
Voice only, no images	Check your video connection. (p. 9-10) Make sure the LCD TV is set to the correct input. (p. 5) Adjust brightness and contrast. (p. 11-14)		
Picture only, no sound	Check your audio connection. (p. 9-10) Adjust volume. (p. 5) Make sure MUTE is off. (p. 5)		

Q: Why doesn't the LCD TV turn on?

A: Check the AC power adapter to make sure it is securely connected to the DC-in power jack at the rear of the LCD TV. Make sure the power cord is plugged into a functioning electrical outlet.

Q: Why is the power LED on but the screen is blank?

A: Make sure the video cable is securely connected to both the LCD TV and the device you have attached. Also, make sure you have correctly connected all of the cables required for your device. Refer to the user's manual that came with your equipment for further information.

Q: Why is my TV too dark or too bright?

A: You can adjust the brightness of the LCD screen. Refer to "Adjusting the Display" on page 13.

Q: Why is there no sound coming from the speakers?

Check your audio cables to make sure they are connected properly. Also, make sure the mute is turned off. Finally, check the sound mode by press the MTS key on the remote control to switch between SAP, Mono and Stereo. Press the Display key to view the setting on the screen.

Q: Why is the LCD TV blurred when I connect it to my PC?

A: The LCD TV supports VGA (640x480) video mode. Make sure the TV settings of your computer are adjusted to this setting. Setting your computer's TV resolution to a higher resolution will result in a poor quality image or no picture at all.

Q: Why can't I view any TV channels?

A: You must scan for channels before you can view TV channels. For more information, see page 15.

Q: Why is my reception bad when watching TV?

A: This could be a variety of reasons, including local interference, if using an over-the-air antenna. Make sure you use a coaxial cable for TV input. Make sure the connection is secure, and grounded. (You may need an electrician to check this for you.) Reception is best from cable TV, satellite dish, or a high-powered rooftop antenna.

Q: Why is the screen too light/dark when in VGA mode?

A: You may need to adjust the white balance. See "White Balance" on page 14. Also, try adjusting the brightness. You can also find this on page 14.

Q: How do I adjust the "tilt", or angle, of my LCD TV?

A: You can adjust the LCD display viewing angle from an upright position to a back-tilted angle of up to 7 degrees and a forward-tilted angle of 4 degrees. When tilting the screen, hold the base firmly and adjust the viewing angle by moving the top of the display forward or backward. Do not press the LCD panel when tilting the display. (See picture A, below.)
WARNING - Forcing the LCD TV past its maximum extension point will damage the unit.



Q: How do I mount my LCD TV to the wall?

A: You will need to purchase a standard wall mount kit (100 mm x 100 mm screw mount area, minimum 35 kg load-carrying weight) from your local retailer if you want to attach the LCD TV to a wall or other fixed surface. First, prepare a flat, stable working area with a soft cloth or foam pad to place the LCD TV on. Next, turn the LCD TV power off, disconnect it from the power adapter, and gently lay the display on its front (screen side.) Third, remove the four screws located at the rear of the LCD TV as illustrated in picture B, above. Remove the LCD TV display stand. For final attachment and hanging, refer to and follow the instructions included with the wall mount kit that you purchased.

Q: If I have more questions, where should I go?

A: Try the Customer Support section of www.apexdigitalinc.com. There are many more Frequently Asked Questions there, as well as many other helpful options.

Specifications

Pixel Pitch	0.6375 mm (H) x 0.6375 mm (W)
Maximum Display Area	16.1 in. (V) x 12.1 in. (H) (408 mm x 306 mm) 20.1 in. diagonally
Aspect Ratio	4:3
Native Resolution	640x480 interlaced or progressive
Display Colors	16.7 million (RGB 8-bit color)
Contrast Ratio	500:1
Brightness	450 cd/m2 (typical)
Response Time	16 ms typical (Tr + Tf)
View Angle	Horizontal - 160 degrees Vertical - 140 degrees
Horizontal Frequency	31kHz ~ 65kHz
Vertical Frequency	56 Hz ~ 75 Hz
Signal I/O Ports	Composite Video RCA type (x1) S Video (x1) Component Video RCA type; YPbPr (x1) RF w/ NTSC Tuner (x1) VGA 15 pin D sub (x1) Stereo Audio RCA type, L&R ch. (x2) PC Audio In (x1)
TV Systems	NTSC (480 i/p SDTV) PIP Function De-Interlace Support 3D noise reduction filter SAP/MTS V-chip & CCD
Power Consumption (off)	<8W
Power Source	12 VDC 5A (60W)
Speakers	5W (maximum) x 2
Unit Dimensions	23.6 x 17.6 x 6.9 (WxHxD, inches) 600 x 446 x 174 (WxHxD, mm)
Net Weight	17.7 lbs (8 kg)
Wall Mount Area	3.9 in x 3.9 in (100mm x 100mm)
Operating Temperature	32 ~ 104 degrees Fahrenheit (0 ~ 40 degrees Celsius)



Limited North American Warranty Apex Digital AVL2076

Apex Digital, Inc. expresses the following limited warranty. This warranty extends 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 from the date of original purchase with the exception of the remote control and LCD backlight which are guaranteed for 90 days only. During this period Apex Digital will replace a defective part with a new or refurbished part without charge to you. It is the responsibility of the consumer to retain original packaging or provide like packaging in order to facilitate the warranty process. Apex Digital, Inc. will incur no liability whatsoever to provide packaging for warranty items. Upon receipt of the warranty item, should it be determined that the packaging was insufficient, Apex Digital Inc., at its discretion, may void the warranty. The consumer is responsible for the transportation (cost) and insurance charges (if applicable) for the set to the Service Center or Apex Digital. The consumer will be responsible for all tariffs, duty and taxes imposed to ship or receive warranty or warranty replacement units to and from the U.S. You must receive a return authorization number before sending a unit in for service.

Limited Ninety (90) Day Labor Warranty

Apex Digital warrants it will be responsible for labor charges on this product for a period of ninety days from 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 the shipping charges incurred by the consumer, to the Service Center.

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. No service or shipment of product will be accepted unless an RMA# is provided, attached or printed to shipping carton along with an enclosed bill of sale. You will be responsible for all tariffs and taxes imposed to ship or receive warranty or warranty replacement units to and from the U.S.
- These warranties are effective only if product is purchased through an Authorized North American 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 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, have had the serial number removed, altered, or rendered illegible. Warranties do not cover cosmetic damage or lost accessories.

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. 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. Have your pertinent information available including proof of purchase and an understanding of the problem.

Limitations

Your LCD panel is an innovative device that is manufactured to precise tolerances with active performing pixels of at least 99.99%. As such, it is NOT a malfunction to view multiple non performing pixels on your screen. 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 hereby 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.