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Enrich Your Life

# 32" LCD TV USER GUIDE

LCD TV  
Vivitek



# INDEX

## **BEFORE USE**

Explanations of Required Symbols .....	2
Antenna Installation Safety.....	3
Safety Guidelines.....	4
Cleaning the LCD TV.....	5

## **INSTALLATION**

Package Contents.....	6
Front View of the LCD TV.....	6
Rear View of the LCD TV.....	6
Side View of the LCD TV.....	7
Back View of the LCD TV.....	8
Remote Control.....	9
Installation and Setup.....	12

## **OSD FUNCTIONS**

Picture.....	13
<i>(Picture setting / Aspect Ratio / Color Temp / Reset Picture )</i>	
Audio.....	16
<i>(Bass, Treble &amp; Balance / Analog Preference / TV Speaker / Reset Audio )</i>	
Channels.....	18
<i>(Master list / Favorites / Scan Channels / Find Channel / Channel Name Edit )</i>	
Settings.....	22
<i>(Manual Language / Closed Captions / Sleep Time / Input Labels / Power Management / System info / Reset All )</i>	
Locks.....	30
<i>(Ratings Locks / Channel Locks / Change PIN / Reset Locks )</i>	
Guide.....	34

## **SPECIFICATIONS..... 35**

## **TROUBLESHOOTING.....36**

## **APPENDIX**

Appendix A: Detaching the LCD TV Base.....	37
Appendix B: Programming the Remote Control.....	38

## Explanations of required symbols:

SYMBOL	SYMBOL DEFINITION
 <p data-bbox="370 541 495 573">SA 1965</p>	<p data-bbox="743 369 1105 396"><b>RISK OF ELECTRIC SHOCK:</b></p> <p data-bbox="743 401 1421 506">This symbol is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.</p>
 <p data-bbox="370 894 495 926">SA 1966</p>	<p data-bbox="743 743 829 770"><b>NOTE:</b></p> <p data-bbox="743 774 1421 852">This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>

## WARNING

All warnings and instructions marked on the LCD-TV are for your safety. Please read the safety and operating instructions before using the LCD-TV. Keep this user’s manual for future reference.

- **WARNING** – *To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose this LCD TV To Rain Or Moisture!*
- **WARNING** – *Avoid touching the LCD screen.*

## Overloading

Do not overload wall outlets, extension cords, or power strips as this can result in fire or electric shock.

## 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. Periodically inspect the cords and each end of the cords for damage.

## Ventilation

Slots and openings on the cabinet are provided for ventilation purposes. To ensure reliable operation of the LCD TV and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the LCD TV on a bed, sofa, rug or other similar surface.
- Do not place the LCD TV in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer’s instruction have been adhered to.

## Other Notices

- Avoid exposing the LCD TV to direct sunlight or high temperatures.
- Avoid exposing the LCD TV to moisture or high humidity
- Do not attempt repairs yourself. Your warranty does not cover repairs or attempted repairs by anyone not authorized by Vivitek Corp.
- If your LCD TV will not be used for a long period of time, unplug the LCD TV and remove the batteries from the remote control.
- If your LCD TV will not be used for a long period of time, unplug the LCD TV and remove the batteries from the remote control.

## Precautions

- Avoid touching the screen by hand or any object. Only use an approved cleaning solution with a dry, lint-free cloth when cleaning the LCD screen.
- Never remove the rear cover. Your LCD TV contains high-voltage parts. You may be seriously injured if you touch them.
- Avoid exposing your LCD TV to direct sunlight or another heat source. Orient your LCD TV away from direct sunlight to reduce glare.
- Always handle your LCD TV with care when moving it.
- Place your LCD TV in a well-ventilated area; don't place the LCD TV in airtight compartments. Do not place anything on your LCD TV that prevents heat dissipation.
- Ensure that the area around the LCD TV is clean and free of moisture.
- Do not place heavy objects on the LCD TV, audio/video cables, or power cord.
- If the LCD TV emits smoke, abnormal noise, or a strange odor, immediately turn it off and contact the Vivitek Corp. Service Center.

## Antenna Installation Safety

### Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the LCD TV, be sure the antenna or cable system is grounded to prevent voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANS/NFPA 70, provides information on proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Lightning

For added protection during a lightning storm or when the TV is left unattended and unused for long periods of time, it is recommended to unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the LCD TV due to lightning and power-line surges. Do not disconnect the antenna or the power cord during a heavy storm – lightning may strike while you are holding the cable cord, causing serious injury. Turn off your LCD TV and wait for the weather to improve.

### Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits.

## Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.

- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Safety Guidelines

**WARNING:** This device must be operated with the original power cord.

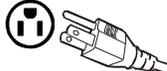
**CAUTION:** The power supply outlet should be located near the LCD TV and should be easily accessible. Always use the appropriate AC cord that is certified for your specific country. Some examples are listed below:

USA.....UL	Switzerland.... SEV
Canada.....CSA	Britain..... BASE/BS
Germany.....VDE	Japan..... Electric Appliance Control Act

### IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The specific power cord for this LCD TV is enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord, or if the cord is not enclosed. The female receptacle of the cord set must meet IEC-60320 requirements and should look like Figure A1 below:

Figure A1 

Figure A2 

### For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For LCD TVs that are placed on a desk or table, type SVT or SJT cord sets may be used. For LCD TVs placed directly on the floor, only SJT type cord sets may be used. The cord must be selected according to the current rating for the LCD TV. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG	10 Amps
	16 AWG	12 Amps
	14 AWG	12 Amps
SVT	18 AWG	10 Amps
	17 AWG	12 Amps

## FCC Compliance Statement

This equipment has been tested and complies 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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 HD LCD TV 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 assistance.

### **FCC Warning**

***To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable used, use only a shielded BNC (5) cable. Also, any unauthorized changes or modifications not expressly approved by will void the user's authority to operate this device.***

## Cleaning the LCD TV

- **MAKE SURE THE LCD TV IS TURNED OFF AND THE POWER CORD IS REMOVED.**
- **NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE**

### **To clean the screen:**

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If the LCD panel still is not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth and wipe the screen.

### **To clean the case:**

1. Use a soft, dry cloth.
2. If the case still is not clean, apply a small amount of non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth then wipe the surface.

## **Disclaimer**

Vivitek Corp. does not recommend the use of any ammonia or alcohol-based cleaners on the LCD TV screen or case. Some chemical cleaners have been reported to damage the screen and/or LCD TV case. Vivitek Corp. will not be liable for damage resulting from the use of any ammonia or alcohol-based cleaners.

# INSTALLATION

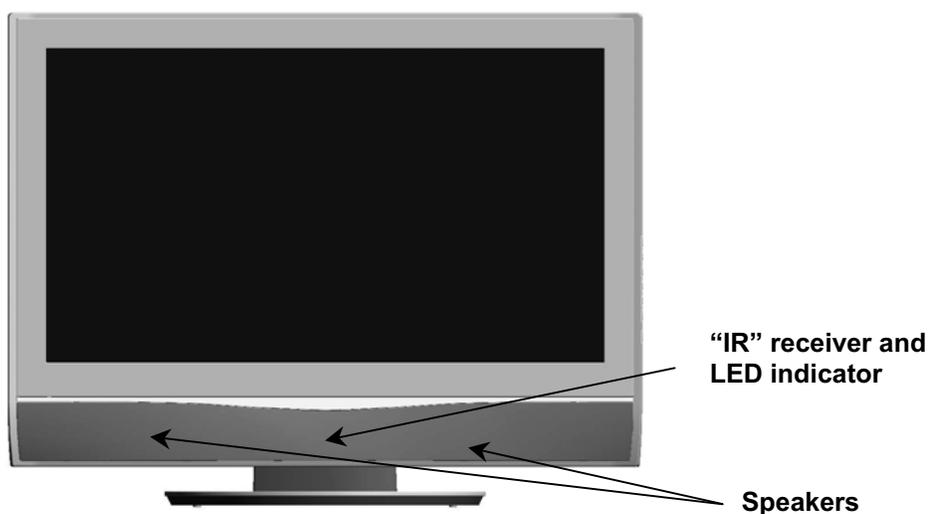
## Package Contents

Your product package includes:

- Vivitek 32" LCD TV HDTV x1
- Remote Control x1
- Power cord x1
- User Guide x1
- Warranty card x1
- AA batteries for remote control x 2

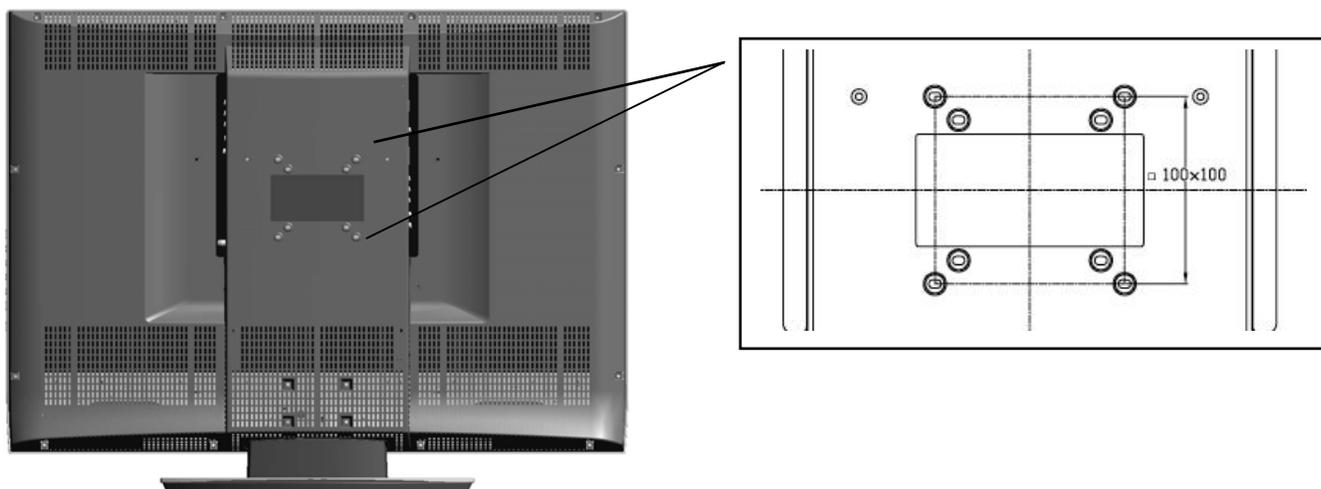
## Front View of the HD LCD TV

Use the buttons on the right side of the HD LCD TV or on the remote control to display the On Screen Display (OSD). The OSD controls are defined in "Viewing OSD Functions" on page 13.

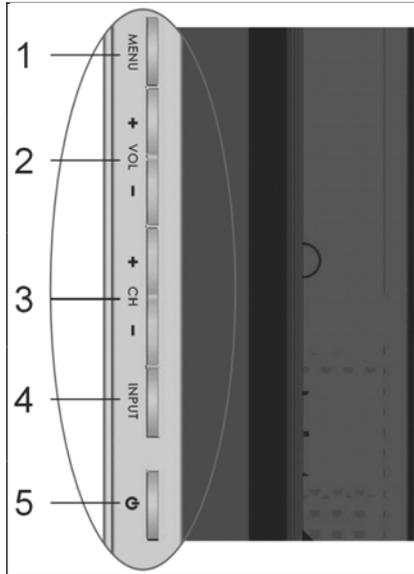


32 inch LCD TV

## Rear View of the HD LCD TV



## Side View of the LCD TV



<b>1. MENU</b>	Turn OSD Menu ON/OFF
<b>2. VOL + / -</b>	Adjust (VOL + / -) sound volume or adjust a highlighted control while in the OSD Menu.
<b>3. CH + / -</b>	Adjust (CH + / -) channel when input is TV or adjust a highlight control while in the OSD Menu.
<b>4. INPUT</b>	Select Active Video Input or choose a selection while in the OSD MENU.
<b>5. Power Button</b>	Power ON/OFF

## Back view of the LCD TV

The diagram shows the back panel of an LCD TV with 16 numbered callouts pointing to specific ports:

- 1:** AUDIO IN
- 2:** VGA
- 3:** YPbPr1 Input
- 4:** YPbPr2 Input
- 5:** YPbPr1 Audio 1 Input (Left / Right)
- 6:** YPbPr2 Audio 2 Input (Left / Right)
- 7:** HDMI
- 8:** HDMI Audio Input (Right / Left)
- 9:** AV Video Input
- 10:** S-Video Input
- 11:** AV & S-Video Audio Input (Right / Left)
- 12:** SPDIF Audio Output
- 13:** Audio Output (Right / Left)
- 14:** ANT (RF-input)
- 15:** SERVICE
- 16:** AC IN (Power)

**1. VGA Audio IN**  
Connect to the Audio out (Green) from a computer.

**2. VGA**  
Using a 15-pin VGA cable, connect to a computer or other device with a VGA output.

**3. YPbPr1 Input**  
Connect an external video device with component output to these jacks.

**4. YPbPr2 Input**  
Connect an external video device with component output to these jacks.

**5. YPbPr1 Audio 1 Input (Left / Right)**  
Connect an external audio source to this jack.

**6. YPbPr2 Audio 2 Input (Left / Right)**  
Connect an external audio source to this jack.

**7. HDMI**  
Connect to an external video device such as DVHS, DVD

**8. HDMI Audio Input (Right / Left)**  
Connect an external audio to this jack

**9. AV Video Input**  
Connect the Composite Video to an external video device such as VCR, DVD and video game system.

**10. S-Video Input**  
Connect to an external video device such as a digital cable/satellite receiver, VCR, DVD or video game system.

**11. AV & S-Video Audio Input (Right / Left)**  
Connect an external audio source to this jack; (Audio (R/L)).  
This connection supports either S-Video or AV input.

**12. SPDIF Audio Output**  
Connect this output to an external digital audio receiver.

**13. Audio Output (Right / Left)**  
Connect this output to an external audio receiver.

**14. ANT (RF-input)**  
Connect the HD LCD TV to an antenna or cable service. Such as NTSC, ATSC.

**15. Service**  
Customer Service only.

**16. AC IN (Power)**  
Connect the power cord from AC IN to a power source.

## Remote Control

The included universal remote allows you to control the Vivitek LCD-TV as well as other name brand TV's, VCR's, DVD players and cable/satellite set top boxes. For further information on how to program the remote control for operating other devices, refer to Appendix B.



## Remote Control

### Selecting the signal source:

TV/DTV	Switch to TV mode.
AV	Switch to composite video mode.
S-Video	Switch to S-Video mode.
COMP	Switch to component mode (Y/Cb/Cr or Y/Pb/Pr).
VGA	Switch to PC mode.
HDMI	Switch to HDMI mode.

### MENU setting:

Menu	Activates OSD Menu.
SEL	Select - Confirm a selection within the OSD menu.
UP / DOWN	UP or down - Move up or down within the OSD menu.
LEFT / RIGHT	Left or right - Move left or right within the OSD menu.
Exit	Exit the OSD Menu; Cancel.

### Changing channels:

CH+ / CH-	Channel increase or decrease.
0 ~ 9 / -/--	Directly enter a channel number.
Last	Return to the previous channel.

### Sound control:

VOL+ / VOL-	Volume increase or decrease.
Mute	Press to switch the sound on / off.
MTS	Multi Sound Selection Mono/Stereo/SAP

### Other functions:

Sleep	Set sleep timer to automatically turn off the unit.
Info	Display the input source and signal type.
C.C	Closed caption toggle on / off.
Aspect	Select video display format.
FAV1/ FAV2	Select, remove or add your favorite channel. (TV mode only)

### Reserve for future use:

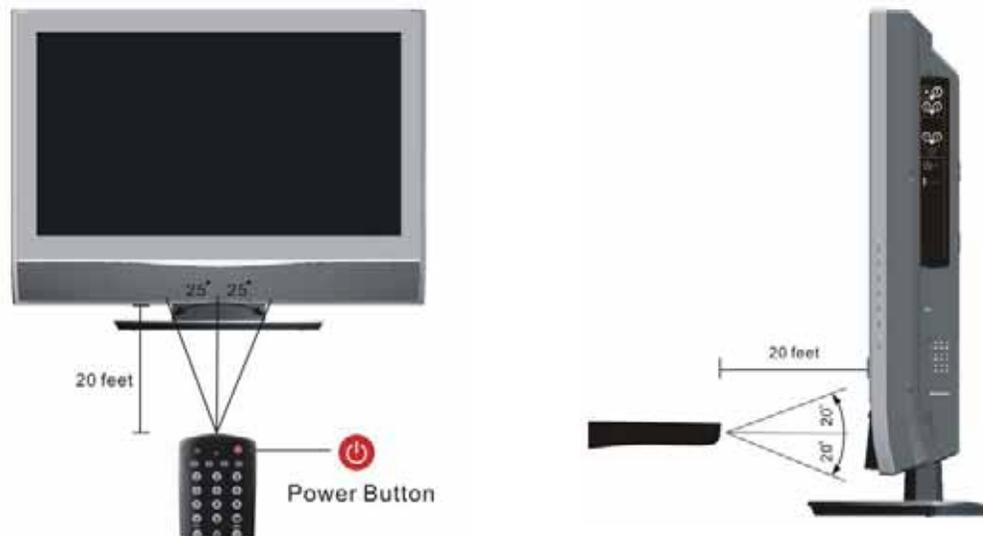
AV Mode, Audio, Zoom, PIP View, PIP, POP, Swap, Freeze.

### Programming function

TV	Select a programmed TV.
VCR	Select a programmed VCR.
CBL	Select a programmed set top box.
AUX	Select a programmed auxiliary device.

## Transmission range of remote control

Transmission range depends upon the receive angle, the remote angle coverage is 25° Left/Right, 20° Up/Down from the HD LCD TV 20 Feet.



## Insert Remote Control Batteries

- 1) Remove the battery cover.
- 2) Insert the batteries corresponding to the (+) and (-) marks within the battery compartment.
- 3) Re-attach the battery cover.



### **CAUTION:**

- 1) *Only use AA batteries.*
- 2) *Do not mix new and old batteries. This may result in cracking or leakage, which may pose a fire risk or lead to personal injury.*
- 3) *Insert batteries according to (+) and (-) markings. Inserting the batteries incorrectly may result in cracking or leakage, which may pose a fire risk or lead to personal injury.*
- 4) *Dispose of used batteries in accordance with local laws and regulations.*
- 5) *Keep batteries away from children and pets.*
- 6) *When the remote control will not to be used for an extended period, remove the batteries.*

## Installation and Setup

**Before powering up the TV for the first time, it is recommended that you read this user manual for instructions on how to operate the Vivitek LCD-TV and navigate the On Screen Display menus.**

Refer to pages 13 - 34 of this user manual for details about each OSD menu option.

The first time the Vivitek LCD-TV is powered on, the OSD setup wizard will appear, allowing you to customize various settings based on your preferences and location.

Refer to pages 28 - 29 for details on the setup wizard.

When navigating any of the OSD menu items, use the up/down/left/right arrow buttons to move through the available options. Then press the SEL button to confirm the selection.

## OSD Menu

There are four main menu options that are common to all input modes. These are Picture, Audio, Settings and Locks. When using the TV tuner mode, two additional options are available as Channels and Guide. All the menu items can be adjusted either by the remote control or using the control keys front of the LCD TV.

### Viewing the OSD Menu

To display the OSD main menu, press the Menu key on the right side front of the LCD TV or the **MENU** button on the remote control. Press arrow buttons to select the desired OSD Menu option then the **SEL** button to confirm the selection.

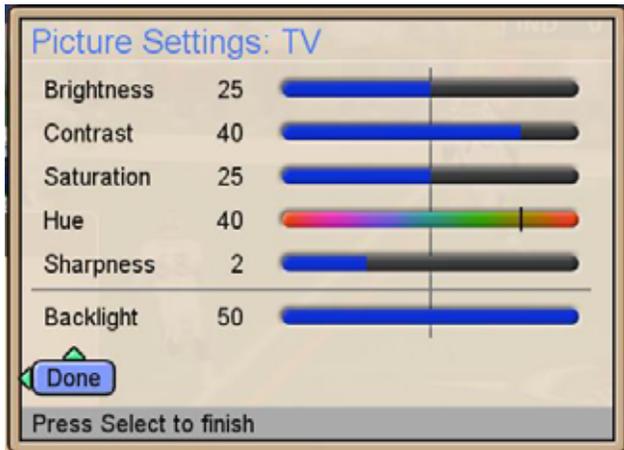


#### 1. Picture



**Picture Settings:**

The Picture Settings sub-menu allows adjustments to display settings such as brightness, contrast, saturation, hue, sharpness and backlight level. Menu options may vary depending on the input source.



**Aspect Ratio:**

The Aspect Ratio sub-menu option adjusts the manner in which source signal formats are displayed on the screen.

- Standard     Display the image exactly as broadcast.
- Fill         Stretches the image horizontally to fit the screen.
- Panoramic     Display conventional 4:3 broadcasts with an imitation wide screen effect. The 4:3 picture is stretched horizontally and vertically to fill the screen.
- Zoom         Suitable for viewing wide-screen 2.35:1 monographic content in full screen. (Black bars are eliminated from the top and bottom of the screen)



**Color Temp.**

The Color Temp. sub-menu option allows you to adjust the level of intensity of the white color spectrum as displayed on the screen. The "Cool" item sets the white levels towards the blue end of the spectrum. The "Normal" item sets the white levels as close to neutral as possible. The "Warm" item sets the white levels towards the yellow end of the spectrum.



**Reset Picture:**

Reset all Picture sub-menu options to the factory defaults.



## 2. Audio



### Bass, Treble & Balance

The Bass, Treble and Balance sub-menu adjusts the ranges of high and low sound frequencies as well as the audio balance levels for left and right speaker output.



### Analog Preference

The Analog Preference sub-menu sets the audio output mode to the desired listening preference. The available modes are Mono (single stream), Stereo (left and right stream) and SAP (Secondary Audio Programming such as a foreign language track).



## TV Speaker

The TV Speaker sub-menu sets the speaker output preference. The available modes are as follows:

- Internal Audio from internal speakers only.
- External Audio from external speakers, such as if the TV was connected to a stereo receiver.
- Both Audio from both internal and external speakers.



## Reset Audio

Reset all Audio sub-menu options to the factory defaults.



### 3. Channels



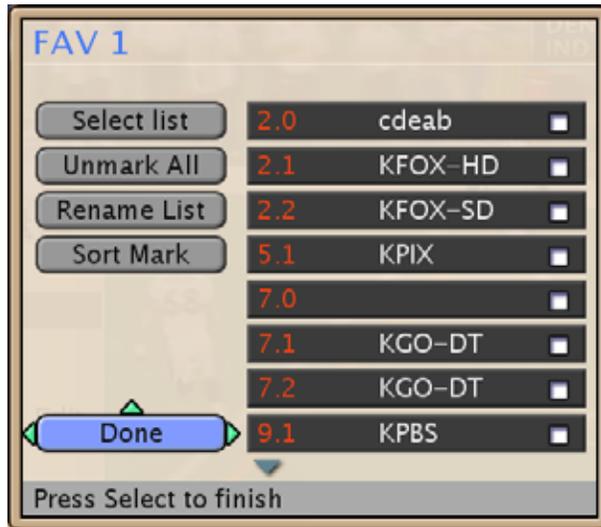
#### Master List

The Master List sub-menu defines which channels are available for viewing when utilizing the analog/digital tuner.

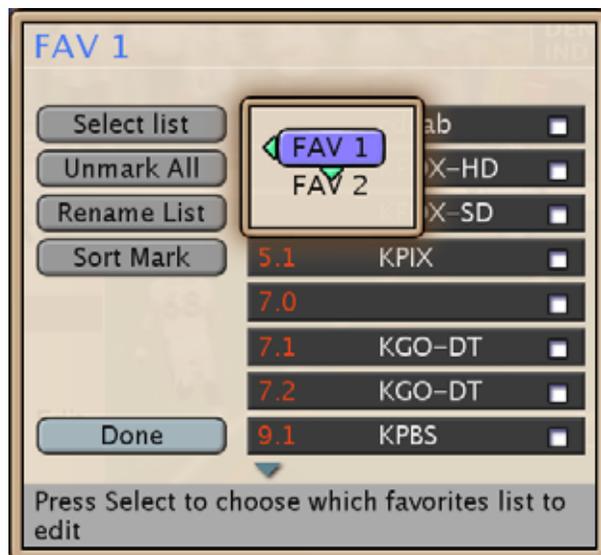


### Favorites

The Favorites sub-menu adds or subtracts channels from the favorite channels list. Channels added to the list can be accessed by pressing the FAV1 or FAV2 button on the remote control instead of directly entering the channel number.



The following sub-menu items allow for modification of the favorite channel lists. Use the arrow buttons on the remote control to scroll through the available channels, then use the SEL button on the remote control to add/remove the selected channel.



- Select List
- Unmark All
- Rename List
- Sort Mark

- Select the favorite channels list to be edited.
- Remove all of channels from the current favorite channel list.
- Rename the favorite channel list.
- Sort or unsort marked channels in the list.

### Scan Channels

The Scan Channels sub-menu automatically scans for available channels based upon the source input selected. If scanning for OTA (over the air) channels, select Antenna as the input source. If scanning for Cable channels, select Cable as the input source.



After selecting the input source, activate the Scan button to initiate scanning or cancel the scan function by selecting Don't Scan.



When selecting Cable as the scan input source, a sub-menu will appear for selecting a cable TV signal type. The signal type is determined by the cable provider. If unsure about the proper signal type, use the "Automatic" option.



### Find Channel

The Find Channel sub-menu allows for manual addition of user specified channels.

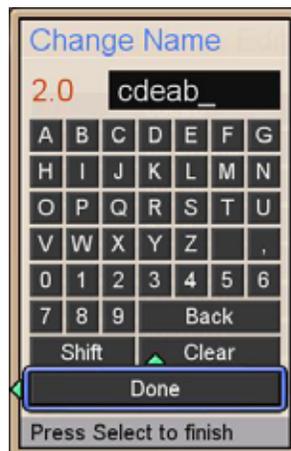


### Channel Name edit

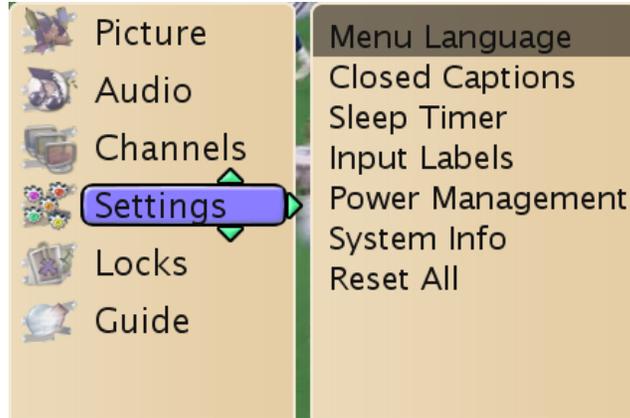
The Channel Name Edit sub-menu allows for modification of the friendly name of any channel within the channels list. To modify a channel name, select the Channel Name Edit sub-menu, scroll through the list of available channels and press the SEL button to modify the desired channel name.



Enter the new channel name using the on-screen characters. Select the "Done" button to save the new name and return to the channel list.



## 4. Settings



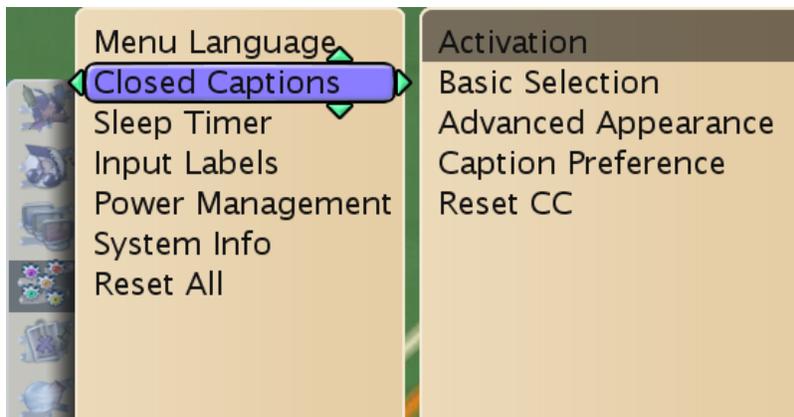
### Menu Language

The Menu Language sub-menu toggles the default language for the on-screen display menus.



### Closed Captions

Closed Captions provide on-screen text in conjunction with the audio program for those who are deaf or hard of hearing.



## Activation

The Activation sub-menu enables/disables closed captioning text.



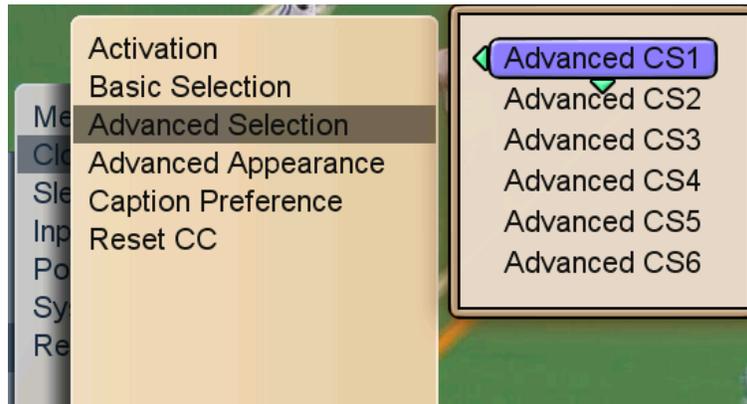
## Basic Selection

The Basic Selection sub-menu configures the video frame field setting for closed captioning content. Most closed caption content can be found within CC1.



## Advanced Selection (Appearance on Digital Channel Only)

The Advanced Selection sub-menu provides enhanced closed caption modes for the CC experience.



## Advanced Appearance

The Advanced Appearance sub-menu provides customization of the CC text through font, size, color and display options.



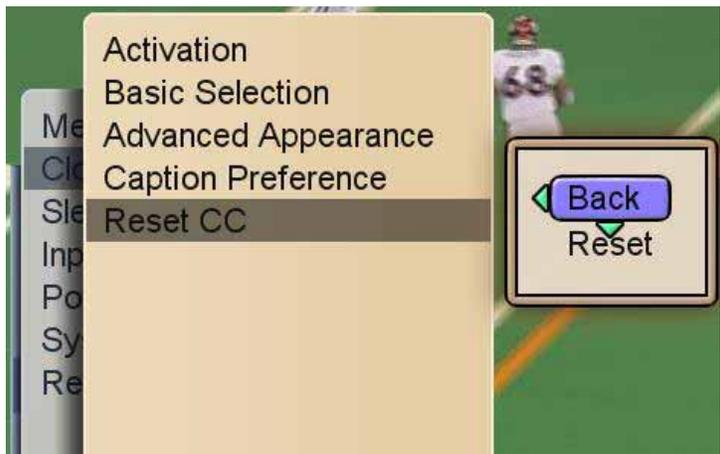
### Caption preference

The Caption Preference sub-menu sets the default captioning mode. If set to Automatic, the mode is determined by the broadcast.



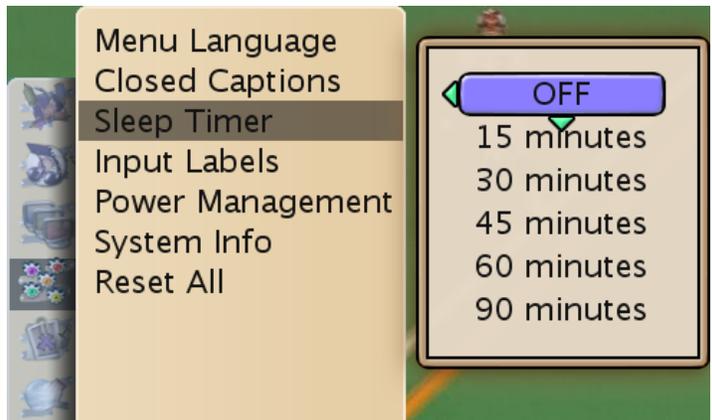
### Reset CC

Reset all Closed Caption sub-menu options to the factory defaults.



### Sleep Timer

The Sleep Timer sub-menu initiates a timer that will automatically power off the LCD-TV when the desired countdown value has been reached.



## Input labels

The Input Labels sub-menu allows for modification of the friendly name for the input port list. To modify an input port label, select the Input Labels sub-menu, scroll through the list of available inputs, choose one of the pre-selected input port descriptions or create a custom label.



## Power Management

The Power Management sub-menu configures the power state of the LCD-TV when turned off. Normal mode places the TV into a low power standby state. From this low power state, the TV can be turned on quickly. Energy Saving mode turns off all power to the TV. From the energy saving state, the TV must be fully booted each time it is turned on.



## System Info

The System Info sub-menu provides detailed information about the LCD-TV and its operating status. Information provided includes the system firmware version as well as the current input source and signal types being decoded.



## Reset All

The Reset All sub-menu resets each and every OSD menu item to the factory default setting.



Note: Once the system reset has completed, the setup wizard will automatically begin.

## Setup Wizard

The Setup Wizard provides guided assistance in configuring the LCD-TV to end user preferences and implementation.

### Language Setting

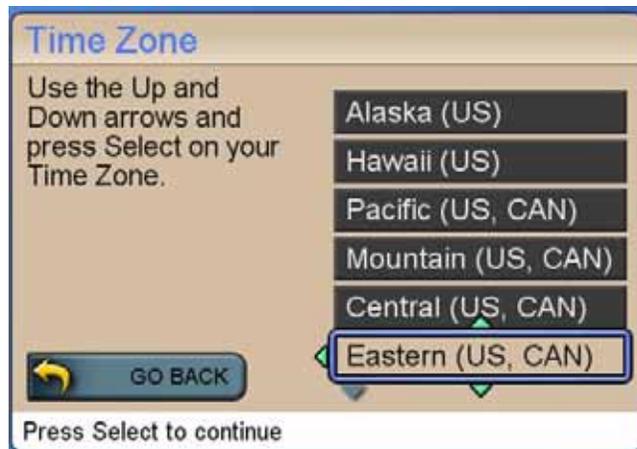
The Language Setting wizard sets the default language for the on-screen display menus and message screens.



### Time Zone

The Time Zone wizard sets the location of the LCD-TV as pertaining to the programming guide for the digital (ATSC) tuner.

Note: The time zone wizard only supports North American locations.



### Daylight Saving

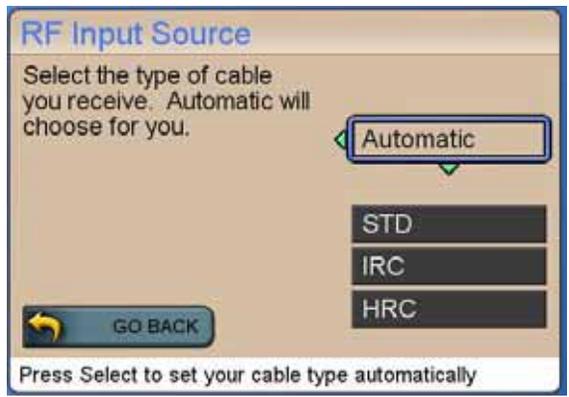
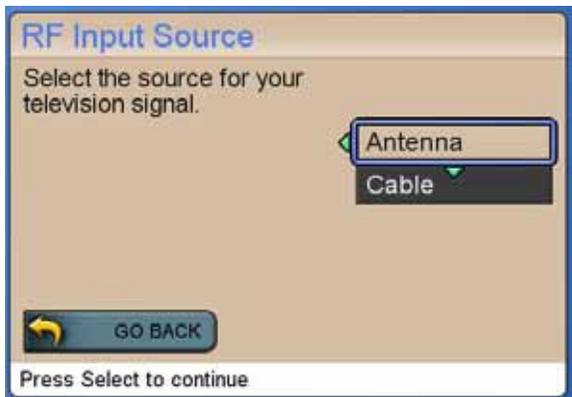
The Daylight Saving wizard sets the clock to acknowledge daylight savings time as pertaining to the programming guide for the digital (ATSC) tuner.



### RF Input Source

The RF Input Source wizard sets the default TV tuner source signal. For over the air analog/digital (including high definition), select Antenna. For analog cable TV, select Cable.

When selecting Cable as the scan input source, a sub-menu will appear for selecting a cable TV signal type. The signal type is determined by the cable provider. If unsure about the proper signal type, use the "Automatic" option.



### Scanning Channels

The Scanning Channels setup wizard automatically scans for available channels based upon the source input selected. As channels are found during the scan process, they will be automatically added to the channels list. Analog channels will only be listed as a channel number. Digital channels are displayed with a channel number and their accompanying station call sign.

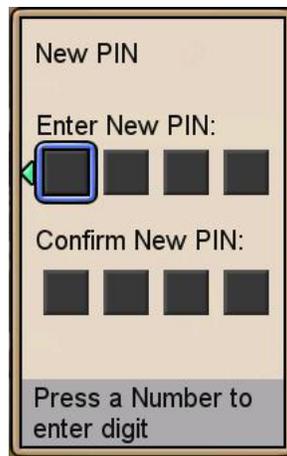


## 5. Locks

The Locks menu provides the ability to set ratings and block programming that may be inappropriate for the viewing audience such as programs and movies that contain violence, adult language or nudity.



A personal identification number (PIN) will need to be created the first time the Locks menu is accessed. Enter the new PIN using the remote control, then confirm the new PIN to save it. Once the PIN has been created, the PIN Entry box will appear whenever attempting to modify the Locks menu.



Once the PIN has been configured, the user has access to 4 sub-menu items. (Ratings Locks, Channel Locks, Change PIN and Reset Locks)



## Rating Locks

The Ratings Locks sub-menu blocks programming based upon the TV or Movie rating for the country specified.

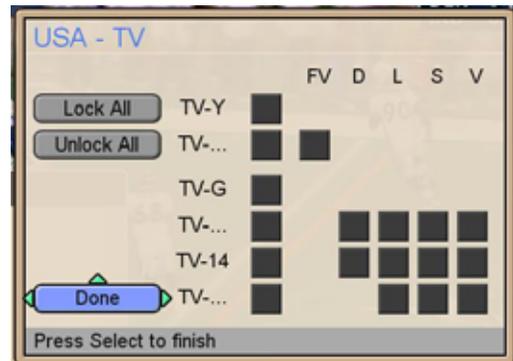
Note: The Ratings Locks are only valid for the North American market.

Note: The Ratings Locks menu is only applicable when the input source is the TV tuner.



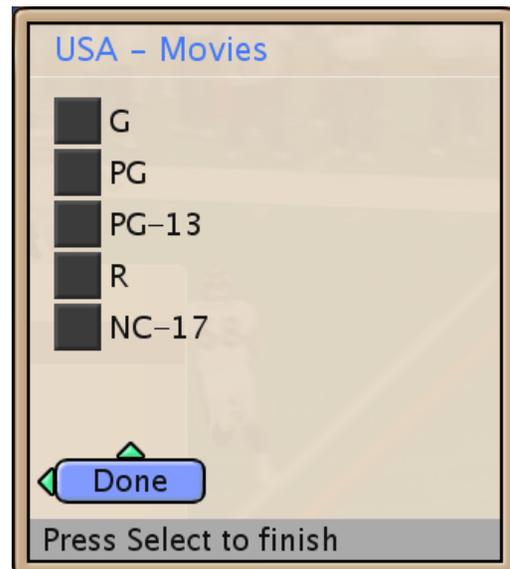
### USA TV Ratings as determined by the FCC.

TV-Y	Suitable for young children
TV-Y7	May not be suitable for children under 7
TV-G	Suitable for all audiences
TV-PG	Parental guidance suggested
TV-14	Parental guidance suggested for children under age 14
TV-MA	Suitable for mature audiences or adults only



### USA Movie Ratings as determined by the MPAA (Motion Picture Association of America)

G	General audience
PG	Parental guidance suggested
PG-13	Parents strongly cautioned
R	Restricted
NC 17	No one 17 and under admitted



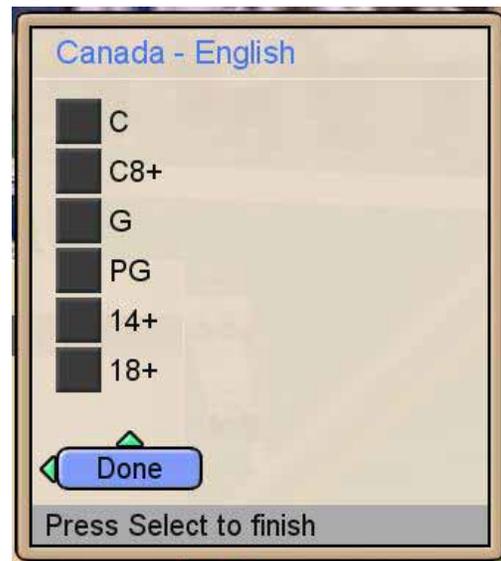
**Canadian (French) ratings as defined by the Regie du Cinema.**

- G General programming, suitable for all audiences
- 8 ans+ Children eight years and older
- 13 ans+ Viewers 13 years and older
- 16 ans+ Viewers 16 years and older
- 18 ans + Adult programming



**Canadian (English) ratings as defined by the Regie du Cinema.**

- C Children
- C8+ Children eight years and older
- G General programming, suitable for all audiences
- PG Parental guidance
- 14+ Viewers 14 years and older
- 18+ Adult programming



**Block Unrated Shows**

When enabled, the Block Unrated Shows sub-menu will prevent any programming that doesn't have a rating lock from being viewed.



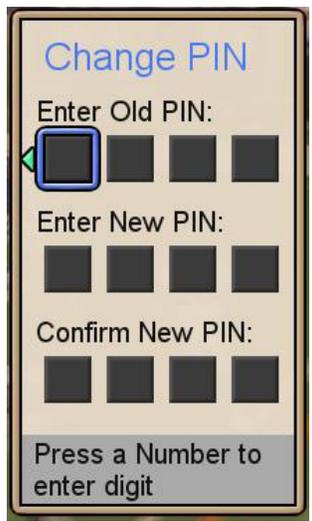
### Channel Locks

The Channel Locks sub-menu provides individual channel blocking regardless of any ratings lock in place.



### Change PIN

The Change PIN sub-menu allows the user to set up a new PIN. The original PIN is required to make any change.



## Reset Locks

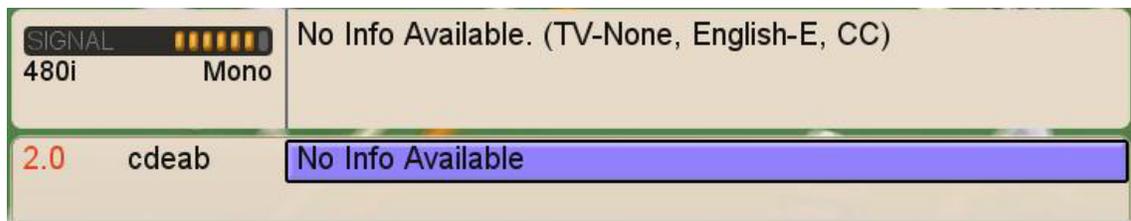
Reset all channel and rating locks to the factory defaults. (unlocked)



## 6. Guide

The Guide menu displays program information for the current channel such as signal strength, audio/video signal type, channel number, V-Chip support, closed captioning status and program title.

Note: The Guide menu is only applicable when viewing digital television through the TV tuner.





# Troubleshooting

## No Power

- Make sure the power cord is not disconnected or loose.
- Make sure the fuse and electricity outlet are working properly.

## Forget Parental Control Password

- Select "PASSWORD EDIT" and enter "0000" to reset the password.

## AUDIO Interconnection Issues

- Check if S-Video and Composite (AV) share the same audio source.

## Power is ON but No Screen Image

- Make sure the antenna or video cable is not disconnected to the LCD TV or loose.
- Check input source settings.

## Wrong or Abnormal Colors

- If any colors (red, green, or blue) are missing, check the video cable to make sure it is connected. Loose or broken pins of the cable connector could cause failure.

## Remote Control Does Not Work

- The batteries may be dead or may be inserted incorrectly. Replace the batteries.
- Make sure the remote control is within 20 feet of the infrared remote sensors on the TV front.
- Make sure there is nothing blocking the infrared remote sensors on the remote or the TV.

## Snow Appears on Screen

- Check your antenna connection.
- Check the TV / CATV selection.

## No Sound

- Press MUTE on the remote control to make sure MUTE disappears from the screen.
- Check the audio settings. The LCD HDTV audio may be set to SAP or minimum.
- Press the Volume + (Up) key on the remote control.
- Make sure the speaker setting is set to "internal"

## APPENDIX A: Detaching the LCD TV Base

**Caution 1:** To Detach the LCD HDTV base requires the skills of action qualified technician. Do not attempt to detach it by yourself. Vivitek bears no responsibility for improper action resulting in accident or injury

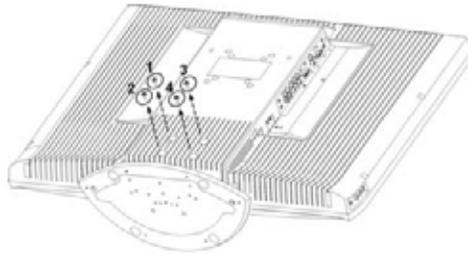
**Caution 2:** Ensure that no cables are attached to the TV during the detaching of the base.

Please make sure there is no object will cause any scratch or damage on the front bezel, then put the front bezel down on a soft and clear area to start detaching.

### LT32PL3-A

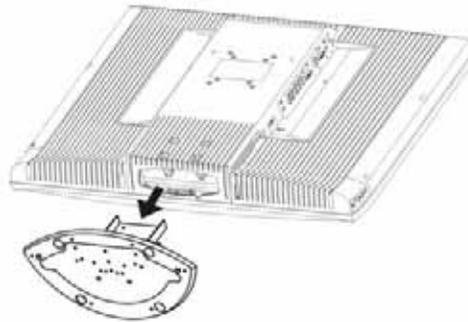
#### Step-1

Remove the four screws as shown on the following illustration.



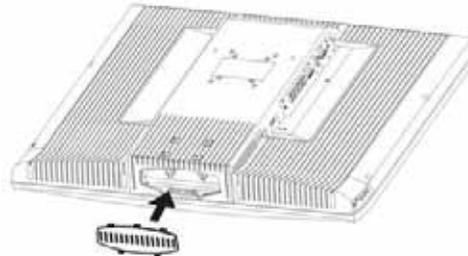
#### Step-2

Detach the base from LCD TV.



#### Step-3

Install the small cover on the bottom of LCD head as illustration.



## APPENDIX B: Programming the Universal Remote Control

The included universal remote control can operate up to four distinct devices. The TV button on the remote control has been pre-programmed for this Vivitek LCD-TV.

### Instructions for programming a third party VCR, DVD, PVR, set top box, amplifier, etc.....

1. Turn on the device in question.
2. Press the button on the remote control that relates to the device to be programmed. (VCR, CBL, AUX).
3. Press and hold the SET button on the remote control until the red L.E.D. light flashes twice.
4. Enter the corresponding 5 digit device code from the list of available devices found in the back of this user manual. A correctly entered code will cause the red L.E.D. to flash twice after the last digit is entered.
5. Point the remote control at the device in question and press the red power button. If the device code is correct, the device will turn off. If the device code is not correct, repeat steps 2 through 4 and use the next code listed for the component and manufacturer.

#### Notes:

- ***Some devices have multiple program codes. If the first device code fails to work, repeat steps 2 through 4 and select the next available device code for the component and manufacturer.***
- ***Some device codes may provide limited functionality. Entering an alternative device code for the same component and manufacturer may enable greater functionality.***
- ***There may be cases where the device in question may not have a device code in the remote control database. In these instances, this universal remote control will not be able to control the device.***

## Device program codes

##### Setup Codes For TVs (T) #####

Addison	10092	GoldStar	10154, 10030, 10178, 11926
Admiral	10093, 10463	Grunpy	10180
Advent	10761, 10842	Haier	11034
Aiko	10092	Hallmark	10178
Aiwa	11914	Hankook	10180, 10030, 10178
Akai	10812, 10702, 10030, 10672, 11903	Harley Davidson	11904
Albatron	10700, 10843	Harman/Kardon	10054
America Action	10180	Harvard	10180
Anam	10250, 10180, 10700	Havermy	10093
Anam National	10250, 10650	Helios	10865
Anhua	10051	Hello Kitty	10451
AOC	10451, 10093, 10180, 10060, 10030, 10178, 10092	Hisense	10156, 10748, 10145, 11156
Apex Digital	10748, 10765, 10879, 10767, 11943	Hitachi	10156, 10030, 10178, 11145, 10145, 10092, 11904, 11156
Audiovox	10451, 10180, 10875, 10092, 10623	Hongmei	10093
Baile	10661	Huafa	10145
Beijing	10812, 10661	Huari	10145
Bell & Howell	10154	Huodateji	10051
BenQ	11032	Imperial Crown	10661
Bradford	10180	Infinity	10054
Broksonic	10236, 10463, 11911, 11938, 11905, 11935, 11929	Inteq	10017
Cailing	10748	JBL	10054
Candle	10030	JCB	10000
Carnivale	10030	Jean	10156, 10051, 10236, 10092
Carver	10054	Jensen	10761
Celebrity	10000	Jiahua	10051
Celera	10765	Jinfeng	10051
Changcheng	10051, 10661	Jinxing	10054, 10156, 10145
Changhong	10156, 10765, 11156, 10767	JVC	10053, 11923, 11253
Ching Tai	10092	Kangli	10661
Chun Yun	10000, 10180, 10700, 10092, 10843	KEC	10180
Chung Hsin	10180, 10053	Kenwood	10030
Cinema	10672	KLH	10765, 10767
Citizen	10060, 10030, 11928, 10092	Kolin	10180, 10150, 10053
Clarion	10180	KTV	10180, 10030
Commercial Solutions	11447, 10047	Kunlun	10051, 10661
Conrowa	10156, 10145, 11156	LG	10060, 10030, 10178, 10856, 10700, 10025
Contec	10180	Lloyd's	11904
Craig	10180, 10054	LXI	10047, 10054, 10154, 10156, 10178
Crown	10180	Magnasonic	11928, 11913
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166	Magnavox	11454, 10054, 10030, 10706, 11931, 11254, 11913, 11904, 11944
CXC	10180	Magnin	11907
Daewoo	10154, 10451, 10180, 10030, 10178, 10672, 11928, 10092, 10661, 11909, 10623, 10700	Marantz	10054, 10030, 10704
Dayu	10661	Matsushita	10250, 10650
Dell	11080	Maxent	11755
Denon	10145	Megapower	10700
Dumont	10017	Megatron	10178, 10145
Durabrand	10463, 10180, 10178, 10171, 11034	Memorex	10154, 10463, 10150, 10178, 11911, 11926, 11924, 11920, 11927
Electroband	10000	MGA	10150, 10030, 10178, 11907100
Emerson	10154, 10236, 10463, 10180, 10178, 10171, 11944, 11909, 11929, 11905, 11928, 10623, 11911	Midland	10047, 10017, 10051
Envision	10030	Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10030, 10178, 11917, 10836
Ether	10030	Monivision	10843, 10700
Firstar	10236	Motorola	10093
Fisher	10154	MTC	10060, 10030
Fortress	10093	Mudan	10051
Fujitsu	10809, 10853	Multitech	10180
Funai	10180, 10171, 11904	NAD	10156, 10178, 10866
Furi	10145	National	10051
Futuretech	10180	NEC	10154, 10156, 10051, 10053, 10030, 10178, 11704
Gateway	11756, 11755	Newave	10093, 10178, 10092
GE	11447, 10047, 11454, 10051, 10451, 10180, 10030, 10178, 11917, 10092, 11907, 11922	Nikko	10030, 10178, 10092
Gibraltar	10017, 10030	Norcent	10748, 10824
		NTC	10092
		Onwa	10180

Optimus	10154, 10250, 10166, 10650, 11927, 11924, 11913	Tiane	10093
Optonica	10093	TMK	10178
Orion	10236, 10463, 11929, 11911, 11905	TNCi	10017
Panasonic	10054, 10250, 10051, 10650, 11927, 11924	Tobo	10748
Panda	10051, 10706	Toshiba	10154, 10156, 10060, 10145, 11945, 11704, 11936, 11156, 11935, 10650, 11918
Penney	10047, 10156, 10051, 10060, 10030, 10178, 11926, 11907	Tuntex	10030, 10092
Philco	10054, 10180, 10030, 10178	TVS	10463
Philips	11454, 10054, 10000, 10051, 10030, 10178, 10092, 10690	V Inc.	11756, 10885, 10864
Pilot	10030	Vector Research	10030
Pioneer	10166, 10866, 10679	Victor	10250, 10053, 10650
Portland	10092	Vidikron	10054
Prima	10761	Vidtech	10178
Princeton	10700	Viewsonic	11755, 10885, 10864
Prism	10051	Wards	10054, 10030, 10178, 10866, 11156
Proscan	11447, 10047, 11922	Warumaia	10661
Proton	10030, 10178	Waycon	10156
Pulsar	10017	White Westinghouse	10463, 11909, 10623
Qingdao	10051	Yamaha	10030
Quasar	10250, 10051, 11924, 10650	Yapshe	10250
RadioShack	10047, 10154, 10180, 10030, 10178, 11920, 11904	Zenith	10017, 10463, 10178, 11904, 11929, 11911, 11909, 10092
RCA	11447, 10047, 11454, 10000, 10030, 10178, 11547, 11922, 11917, 10092, 11907, 11948, 10090, 10679	##### Setup Codes For VCRs (V) #####	
Realistic	10154, 10180, 10030, 10178	ABS	21972
Rowa	10748	Admiral	20048, 20209
Runco	10017, 10030	Aiko	20278
Sampo	10154, 10093, 10030, 10178, 10171, 10700, 10650, 11755, 10092	Aiwa	20037, 20479
Samsung	10154, 10156, 10060, 10812, 10702, 10030, 10178, 11060, 10814, 10092, 11903, 10090, 10766	Alienware	21972
Sansui	10463, 11904, 11935, 11929, 11911	America Action	20278
Sanyo	10154, 10156, 10180, 10145, 11907	High	20035
Sanyuan	10093	Amoisonic	20479
Scotch	10178	Anam	20162, 20037, 20240, 20278
Scott	10236, 10180, 10178	Anam National	20162
Seanix	11369	Asha	20240
Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904	Audiovox	20037, 20278
Shaofeng	10145	Beaumark	20240
Sharp	10093, 10030, 10650, 11917	Bell & Howell	20104
Shen Ying	10092	Broksonic	20184, 20121, 20209, 20002, 20479
Shencai	10145	Calix	20037
Sheng Chia	10093, 10236	Canon	20035
Skygiant	10180	Carver	20081
Skyworth	10748	CCE	20072, 20278
Sony	11100, 10000, 10650, 11925, 11904	Changhong	20048, 20081
Soundesign	10180, 10178	Citizen	20037, 20278
Sowa	10156, 10051, 10060, 10178, 10092	Colt	20072
Squareview	10171	Craig	20037, 20047, 20240, 20072
SSS	10180, 10180	Curtis Mathes	20060, 20035, 20162
Studio Experience	10843	Cybernex	20240
Supreme	10000	CyberPower	21972
SVA	10748, 10865	Daewoo	20045, 20104, 20278
Sylvania	10054, 10030, 10171, 11944, 11931	Dell	21972
Symphonic	10180, 10171, 11913, 11904	Denon	20042
Synco	10000, 10451, 10093, 10060, 10178, 10092	DirectTV	20739
Tacico	10178, 10092	Durabrand	20039, 20038
Tandy	10093	Electrohome	20037
Tashiko	10092, 10650	Electroponic	20037
Tatung	10054, 10154, 10156, 10051, 10060, 11156, 11756, 11254	Emerex	20032
Technics	10250, 10051	Emerson	20035, 20037, 20184, 20240, 20045, 20121, 20043, 20209, 20002, 20278, 20479
Techwood	10051	Fisher	20047, 20104
Teco	10051, 10093, 10178, 10092	Fuji	20035, 20033
Teknika	10054, 10180, 10150, 10060, 10092	Fujitsu	20045
Telefunken	10702	Gateway	21972
Tera	10030	GE	20060, 20035, 20240
Thomas	11904	General	20045
		Go Video	20432
		GoldStar	20037, 20209, 20038, 20225
		Haojie	20240
		Harman/Kardon	20081, 20038

Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
iBUYPOWER	21972
JVC 20045,	20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
Kolin	20043
LG	20037, 20045, 20042, 20209,
Logik	20072
LXI	20037
Magnavox	20035, 20039, 20081
Magnin	20240
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039,
	20047, 20240, 20104, 20209, 20479
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043
Motorola	20035, 20048
MTC	20240
Multitech	20072
NEC	20035, 20037, 20048, 20104, 20067,
	20038
Newave	20037
Nikko	20037
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048, 20104,
	20432
Orion	20184, 20209, 20002, 20479
Panasonic	21062, 20035, 20162, 20616, 20225
Penney	20035, 20037, 20240, 20042, 20038
Pentax	20042
Philco	20035, 20479
Philips	20035, 20081, 20739, 20618
Pilot	20037
Pioneer	20042, 20067
Polk Audio	20081
Profitronic	20240
Proscan	20060
Protec	20072
Pulsar	20039
Qisheng	20060
Quasar	20035, 20162
Radix	20037
Randex	20037
RCA	20060, 20035, 20240, 20042, 20880
Realistic	20035, 20037, 20048, 20047, 20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20432
Sanky	20048, 20039
Sansui	20067, 20209, 20479
Sanyo	20047, 20240, 20104
Scott	20184, 20045, 20121, 20043
Sears	20035, 20037, 20047, 20042, 20104
Sharp	20048, 20209
Shintom	20072
Shogun	20240

Singer	20072
Sonic Blue	20616
Sony	20035, 20032, 20033, 20636, 21972
STS	20042
Sylvania	20035, 20081, 20043
Systemax	21972
Tagar Systems	21972
Tashiko	20037
Tatung	20045, 20067
Technics	20035, 20162
Teco	20035, 20037, 20048, 20038
Teknika	20035, 20037
Tivo	20636, 20618, 21503, 20739
TMK	20240
Toshiba	20045, 20042, 20067, 20043, 21503,
	21008, 21972
Totevision	20037, 20240
Touch	21972
Unitech	20240
Vector	20045
Vector Research	20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20240
Viewsonic	21972
Wards	20060, 20035, 20048, 20047, 20081,
	20240, 20042, 20072
White Westinghouse	20209, 20072
XR-1000	20035, 20072
Yamaha	20038
Zenith	20039, 20033, 20209, 20479
ZT Group	21972

##### Setup Codes For DVD Players (Y) #####

Aiwa	20641, 21912, 20770
Allegro	20869
Apex Digital	20672, 20717, 20797, 21061, 20796,
	21056, 21937, 20794, 21020, 21915
Blaupunkt	20717
Blue Parade	20571, 20695
Changhong	20627, 21061
CineVision	20869
Coby	21086
Curtis Mathes	21087
CyberHome	21024, 21023, 21129, 20816, 21117
Daewoo	20833, 21172, 20869
Denon	20490
DVD2000	20521
Emerson	20591, 20675
Enterprise	20591
Fisher	21919
Funai	20675
Gateway	21158, 21073
GE	20522, 20717
Go Video	20744, 20833, 21099, 20783, 21075,
	20869, 21730
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21919
Hiteker	20672
Initial	20717
Integra	20627, 21924
JBL	20702
JVC	20558, 20623, 20867
Kenwood	20490, 20534
KLH	20717, 21020, 21149
Koss	20651, 21980
Lasonic	20798
LG	20591, 20869, 20801
Liquid Video	21980
Lite-On	21158, 21058

Loewe	20511
Magnavox	20503, 20539, 21976, 21914, 20675
Marantz	20539
Memorex	20695
Microsoft	20522
Mintek	20717
Mitsubishi	21521, 20521
Nesa	20717
Norcent	21003
Onkyo	20503, 20627, 21924, 20792
Oritron	20651, 21980
Panasonic	20490, 21762, 21990
Philips	20503, 20539, 20646, 21914
Pioneer	20525, 20571
Polaroid	21086, 21061
Polk Audio	20539
Portland	20770
Proscan	20522
Qwestar	20651
RCA	20522, 20571, 20717, 20822
Rio	20869
Rotel	20623
Sampo	20752, 20698, 20490, 20573, 21932, 21075, 20820
Sansui	20695
Sanyo	20695
Sharp	20630, 20752
Sharper Image	21117
Sherwood	20770
Shinco	20717
Shinsonic	20533
Sonic Blue	20869, 21099
Sony	20533, 20864, 21033, 21904, 21903
SVA	20717
Sylvania	20675
Symphonic	20675
Teac	20717, 21984, 20809
Technics	20490
Theta Digital	20571
Toshiba	20503, 20695
Urban Concepts	20503
Xbox	20522
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20869

##### Setup Codes For Cable Converters (C) #####

ABC	00003, 00008, 00014, 00899
Bell & Howell	00014
Bell South	00899
Clearmaster	00883
ClearMax	00883
Coolmax	00883
Daeryung	01877, 00877, 00477, 00008
Digi	00637
Director	00476
Dumont	00637
Gehua	00476
General Instrument	00476, 00810, 00276, 00003, 00014
GoldStar	00144
Hamlin	00009, 00273
Hitachi	00014
Jerrold	00476, 00810, 00276, 00003, 00012, 00014
KNC	00008
LG	00144
Memorex	00000
Motorola	00476, 00810, 00276, 01254, 01376
MultiVision	00012
Pace	01877, 00237
Panasonic	00000,
Panther	00637
Paragon	00000

Philips	00317, 01305
Pioneer	01877, 00877, 00144, 00533
Pulsar	00000
Quasar	00000
RadioShack	00883
Regal	00279, 00273
Runco	00000
Samsung	00000, 00144
Scientific Atlanta	01877, 00877, 00477, 00008
Sony	01006
Starcom	00003, 00014
Supercable	00276
Supermax	00883
Tocom	00012
Torx	00003
Toshiba	00000
Trans PX	00276
Tristar	00883
TS	00003
V2	00883
Viewmaster	00883
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899

##### Setup Codes For Satellite Receivers (S) #####

AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01392, 01640, 01442, 01414, 01108
Dish Network System	01005, 00775, 01505
Dishpro	01005, 00775, 01505
Echostar	01005, 00775, 01505
Expressvu	00775
GE	00566
General Instrument	00869
GOI	00775
Goodmans	01246
Hisense	01535
Hitachi	00819, 00222, 01250
HTS	00775
Hughes Network Systems	01142, 00749, 01749, 01442
I-Lo	01535
JVC	00775
LG	01414, 01226
Magnavox	00724, 00722
Memorex	
Mitsubishi	00749
Motorola	00869
NEC	01270
Next Level	00869
Panasonic	00247, 00701
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA 00392,	00566, 00855, 00143, 01392
Samsung	01276, 01109, 01108
Sanyo	01219
SKY	00856
Sony	00639, 01640
Star Choice	00869
Tivo	01142, 01442
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01640, 01392
Uniden	00724, 00722
US Digital	01535

USDTV 01535  
 Voom 00869  
 Zenith 00856, 01856

##### Setup Codes For Audio Amplifiers (A) #####

Bose 30674  
 GE 30078  
 JVC 30331  
 Marantz 30321  
 Nakamichi 30321  
 NEC 30264  
 Optimus 30395  
 Realistic 30395  
 Sansui 30321  
 Shure 30264  
 Sony 30689  
 Soundesign 30078  
 Victor 30331  
 Wards 30078  
 Yamaha 30354, 30133

##### Setup Codes For CD Players (D) #####

Aiwa 30157  
 Burmester 30420  
 California Audio Labs 30029  
 Carver 30157, 30179  
 Denon 30873  
 DKK 30000  
 DMX Electronics 30157  
 Dynamic Bass 30179  
 Fisher 30179  
 Garrard 30420  
 Genexxa 30032  
 Harman/Kardon 30157, 30173  
 Hitachi 30032  
 Integra 30101  
 JVC 30072  
 Kenwood 30826, 30626, 30028, 30037, 30036, 30190  
 Krell 30157  
 Linn 30157  
 Magnavox 30157  
 Marantz 30626, 30029, 30157  
 MCS 30029  
 Miro 30000  
 Mission 30157  
 MTC 30420  
 NSM 30157  
 Onkyo 30868, 30101  
 Optimus 31063, 30000, 30032, 30037, 30420, 30179, 31075, 30145  
 Panasonic 30029  
 Parasound 30420  
 Philips 30626, 30157  
 Pioneer 31063, 31062, 30032  
 Polk Audio 30157  
 Proton 30157  
 QED 30157  
 Quad 30157  
 Quasar 30029  
 RadioShack 31075  
 RCA 31062, 30032, 30420, 30179, 30053  
 Realistic 30420, 30179  
 Rotel 30157, 30420  
 SAE 30157  
 Sansui 30157  
 Sanyo 30179  
 SAST 30157  
 Sharp 30861, 30037

Silsonic 30888, 30036  
 Sonic Frontiers 30157  
 Sony 30490, 30000, 30100  
 Soundesign 30145  
 TAG McLaren 30157  
 Tascam 30420  
 Teac 30420  
 Technics 30029  
 Victor 30072  
 Wards 30157, 30053  
 Yamaha 30888, 30036  
 Zonda 30157

##### Setup Codes For Audio Amp/Tuners (R) #####

ADC 30531, 31405, 31243, 30121  
 Anam 31609, 31074  
 Audiotronic 31189  
 Bose 31229  
 Capetronic 30531  
 Carver 31189  
 Coby 31263  
 Denon 31360, 31142, 30904  
 Fonmix 31360  
 Glory Horse 31263  
 Harman/Kardon 30110  
 Hitachi 31273  
 Inkel 30027  
 Integra 30135  
 JBL 30110  
 JVC 30074, 313  
 Kenwood 31313, 31570, 30027  
 KLH 31428  
 Magnavox 31189, 31269, 30531  
 Marantz 31189, 31269, 30039  
 MCS 30039  
 Onkyo 30842, 30135  
 Optimus 31023, 30670, 30531, 31074  
 Panasonic 31518, 30039  
 Philips 31189, 31269  
 Pioneer 31023, 30150, 30014, 30630, 30531  
 Proscan 31254  
 Qisheng 31609  
 Quasar 30039  
 RadioShack 31263  
 RCA 31023, 31609, 31254, 30531, 31074  
 Sharper Image 31263  
 Silsonic 30176  
 Sony 31058, 31441, 31258, 31759  
 Soundesign 30670  
 Stereophonics 31023  
 Sunfire 31313  
 Teac 31074, 31267  
 Technics 31308, 31518, 30039  
 Thorens 31189  
 Victor 30074  
 Wards 30014  
 Yamaha 30176, 31276, 31176



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