**Enrich Your Life** 

32" LCD TV
USER GUIDE



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## **Explanations of required symbols:**

| SYMBOL  | SYMBOL DEFINITION   |
|---------|---|
| SA 1965 | RISK OF ELECTRIC SHOCK: 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. |
| SA 1966 | NOTE: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.   |

### **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.

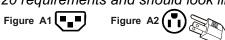
**CAUTION:** The power supply outlet should be located near the LCD TV and should be easily accessible. Always use the appropriate AC cord that is certified for your specific country. Some examples are listed below:

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:



### 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 |
|-----------|----------------------------|--------------------------------|
|           | 18 AWG                     | 10 Amps                        |
| SJT       | 16 AWG                     | 12 Amps                        |
|           | 14 AWG                     | 12 Amps                        |
| SVT       | 18 AWG                     | 10 Amps                        |
| SVI       | 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**

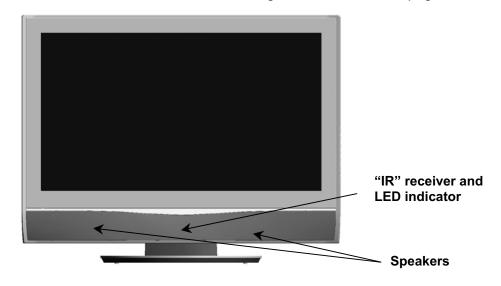
# **Package Contents**

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

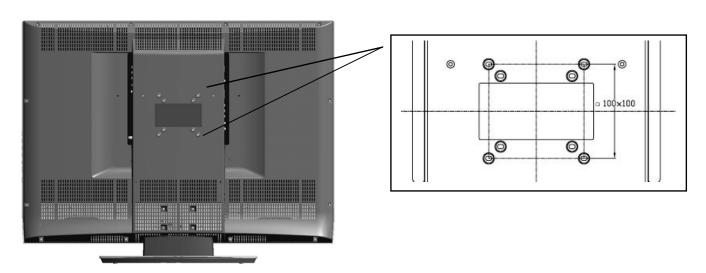
### Front View of the HD LCD TV

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.

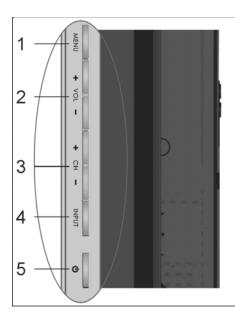


32 inch LCD TV

### Rear View of the HD LCD TV

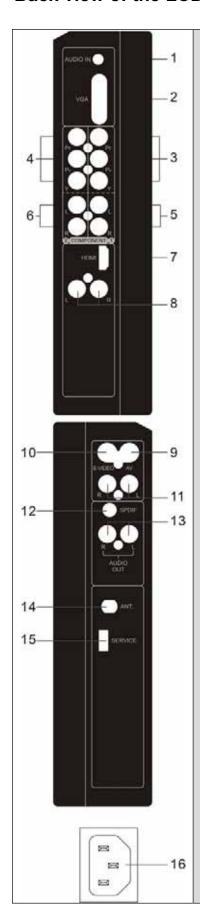


# Side View of the LCD TV



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

### Back view of the LCD TV



### 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 / Lift)

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.  $0 \sim 9$  / -/-- 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.

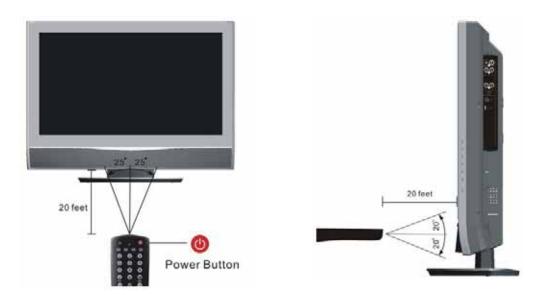
VCR Select a programmed VCR.

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 Menus**

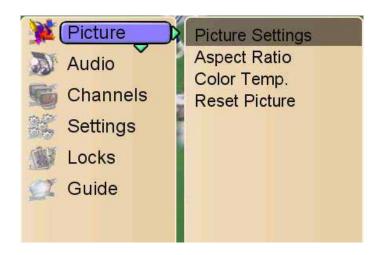
There are four main menu options that are common to all input modes. These are Picture, Audio, Settings and Locks. When using the TV tuner mode, two additional options are available as Channels and Guide. All the menu items can be adjusted either by the remote control or using the control keys front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

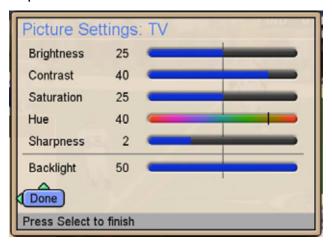


### 1. Picture



### **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 Select the favorite channels list to be edited.

Unmark All Remove all of channels from the current favorite channel list.

Rename List Rename the favorite channel list.

Sort Mark Sort or unsort marked channels in the list.

### **Scan Channels**

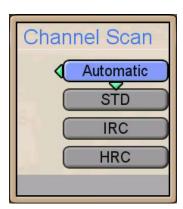
The Scan Channels sub-menu automatically scans for available channels based upon the source input selected. If scanning for OTA (over the air) channels, select Antenna as the input source. If scanning for Cable channels, select Cable as the input source.



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.



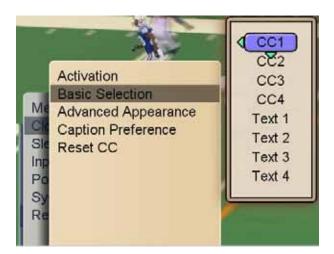
### Activation

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



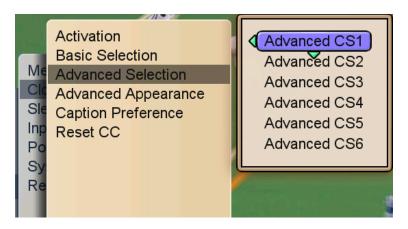
### **Basic Selection**

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



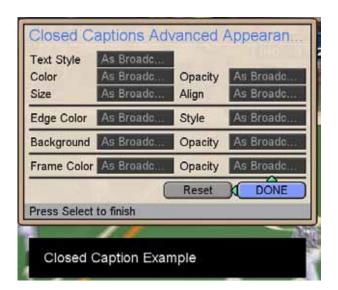
### Advanced Selection (Appearance on Digital Channel Only)

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.



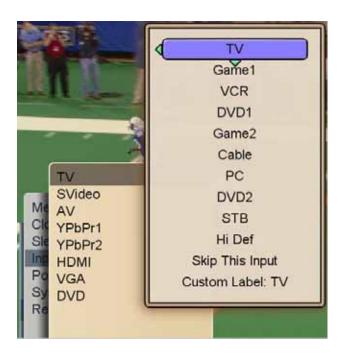
### Sleep Timer

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.



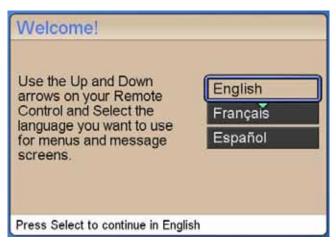
Note: Once the system reset has completed, the setup wizard will automatically begin.

### **Setup Wizard**

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

### **Language Setting**

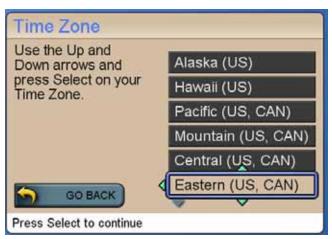
The Language Setting wizard sets the default language for the on-screen display menus and message screens.



### 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**

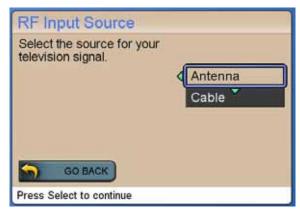
The Daylight Saving wizard sets the clock to acknowledge daylight savings time as pertaining to the programming guide for the digital (ATSC) tuner.

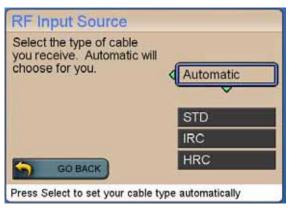


### **RF Input Source**

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)

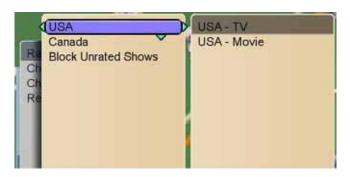


# **Rating Locks**

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

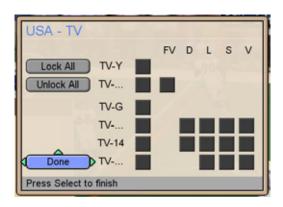
Note: The Ratings Locks are only valid for the North American market.

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)

| General audience             |
|------------------------------|
| Parental guidance suggested  |
| Parents strongly cautioned   |
| Restricted                   |
| 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**

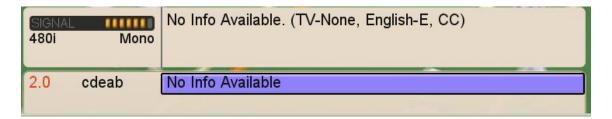
Reset all channel and rating locks to the factory defaults. (unlocked)



# 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.



# LT32PL3-A LCD TV Specifications

| Model Name                |  | LT32PL3-A  |  |  |
|---------------------------|--|--|--|--|
|                           |  | 32" (32.02" viewable diagonal area)  |  |  |
| Panel                     | Туре   | TFT (Thin Film Transistor), Active Matrix LCD, 1366 x 768 vertical stripe. Anti-glare coating  |  |  |
|                           | Color  | True 16,700,000 (8-bits/color)   |  |  |
| Viewing Angles            |  | 176° (H) / 176° (V)  |  |  |
|                           |  | VGA Analog * 1 (75 ohms, 0.7 Vp-p)/Mini-Stereo *1<br>HDMI *1 / RCA (L/R) stereo * 1<br>H/V separated (TTL) for PC, fh: 30-60 kHz, fv: 50-75 Hz                   |  |  |
| Input Signal              | Video/Audio  | TV system antenna / NTSC *1 in US and TW, ATSC * 1 in US   |  |  |
| input Signal              | Video/Addio  | Component Video * 2 / RCA (L/R) Stereo * 2   |  |  |
|                           |  | Composite * 1 / S-Video * 1 / RCA (L/R) stereo * 1   |  |  |
|                           |  | Composite * 1 / RCA (L/R) Stereo * 1, Headphone Mini-Stereo *1(side I/P)   |  |  |
| Output Signal             |  | RCA (L/R) Stereo * 1<br>RCA SPDIF *1   |  |  |
| HDTV Compatibility        |  | 480i, 480P, 720P, 1080i  |  |  |
| PC Compatible             | Recommended  | 1360x768 @60Hz(reduced blanking), 1366x768 @60Hz(reduced blanking)<br>1280x720 @60Hz 720x400 @70Hz<br>1024x768 @60Hz 640x480 @60Hz<br>H = 30~49 KHz V = 50~75 Hz |  |  |
| Speaker Output            |  | 9w ( x 2 Channels)   |  |  |
| Power                     | Voltage  | 120 Vac, 60 Hz, 2.5A   |  |  |
| Tompovatura (Nota A)      | Operating  | 0 to + 35° C (Hum.<90%)  |  |  |
| Temperature (Note A)      | Storage  | -20 to +60 °C (Hum.< 35 %)   |  |  |
| Humidity (Relative).      | Operating  | 20 to 90% non-condensing.(Ta< 35%)   |  |  |
| (Note A)                  | Storage  | 10 to 90% non-condensing. (Note A)   |  |  |
| Wet-bulb temperature      |  | C Max. (Ta> 40°C)<br>dity range is shown in right side   |  |  |
|                           | Operating  | 0 to 3,000 m   |  |  |
| Altitude                  | Storage  | 0 to 12,000m   |  |  |
| Dimensions                | Physical   | 798mm(W)x626mm(H)x226mm(D)   |  |  |
| Weight                    | Net / Gross  | 18.0kg / 22.0kg  |  |  |
| Regulations               |  | UL/C-UL, FCC-B   |  |  |
| Consumption<br>(DC Power) | On<br>OFF in Normal<br>OFF in Energy s<br>Power saving | <180w (Blue LED)<br><17w (LED off)   |  |  |
| D                         | <u> </u>   | 1 11 1: 1000 700 (0011)  |  |  |

Preset Timing Mode (Pre-adjusted to reduce blanking: 1360 x 768 at 60Hz)

**Warning:** Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the HD LCD TV.

Note: Product Specifications are subject to change without notice.

# **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

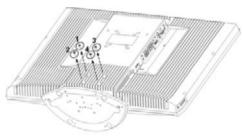
Caution 2: Ensure that no cables are attached to the TV during the detaching of the base.

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

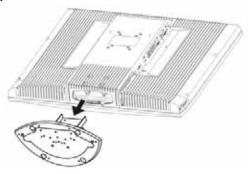
Step-1

Remove the four screws as shown on the following illustration.



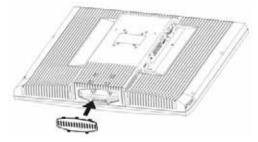
### Step-2

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).
- 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) #####

| mmmm Cotap Coaco I C. | (1) (1)   |                  |  |
|-----------------------|---|------------------|--|
| 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,                                      | Integ            | 10017  |
| 2.0                   | 11935, 11929  | JBL              | 10054  |
| Cailing               | 10748   | JCB              | 10000  |
| Candle                | 10030   | Jean             | 10156, 10051, 10236, 10092                             |
| Carnivale             | 10030   | Jensen           | 10761  |
| Carver                | 10054   | Jiahua           | 10051  |
| Celebrity             | 10000   | Jinfeng          | 10051  |
| Celera                | 10765   | Jinxing          | 10054, 10156, 10145                                    |
| Changcheng            | 10051, 10661  | JAC              | 10053, 11923, 11253                                    |
| Changhong             | 10156, 10765, 11156, 10767  | Kangli           | 10661  |
| Ching Tai             | 10092   | KEC              | 10180  |
| Chun Yun              | 10000, 10180, 10700, 10092, 10843                                       | Kenwood          | 10030  |
| Chung Hsin            | 10180, 10053  | KLH              | 10765, 10767   |
| Cinema                | 10672   | Kolin            | 10180, 10150, 10053                                    |
| Citizen               | 10060, 10030, 11928, 10092  | KTV              | 10180, 10030   |
| Clarion               | 10180   | Kunlun           | 10051, 10661   |
| Commercial Solutions  | 11447, 10047  | LG               | 10060, 10030, 10178, 10856, 10700,                     |
| Conrowa               | 10156, 10145, 11156   |                  | 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,<br>10060, 10702, 10030, 10145, 10166 | Magnavox         | 11454, 10054, 10030, 10706, 11931,                     |
| схс                   | 10180   | Magnin           | 11254, 11913, 11904, 11944<br>11907                    |
| Daewoo                | 10154, 10451, 10180, 10030, 10178,                                      | Marantz          | 10054, 10030, 10704                                    |
| Daewoo                | 10672, 11928, 10092, 10661, 11909,                                      | Matsushita       | 10250, 10650   |
|                       | 10623, 10700  | Maxent           | 11755  |
| Dayu                  | 10661   | Megapower        | 10700  |
| Dell                  | 11080   | Megatron         | 10178, 10145   |
| Denon                 | 10145   | Memorex          | 10154, 10463, 10150, 10178, 11911,                     |
| Dumont                | 10017   |                  | 11926, 11924, 11920,11927                              |
| Durabrand             | 10463, 10180, 10178, 10171, 11034                                       | MGA              | 10150, 10030, 10178, 11907100                          |
| Electroband           | 10000   | Midland          | 10047, 10017, 10051                                    |
| Emerson               | 10154, 10236, 10463, 10180, 10178,                                      | Mitsubishi       | 10154, 10250, 10093, 10236, 10180,                     |
|                       | 10171, 11944, 11909,11929, 11905,                                       |                  | 11250, 10150, 10030, 10178, 11917,                     |
|                       | 11928, 10623,11911  |                  | 10836  |
| Envision              | 10030   | Monivision       | 10843, 10700   |
| Ether                 | 10030   | Motorola         | 10093  |
| Firstar               | 10236   | MTC              | 10060, 10030   |
| Fisher                | 10154   | Mudan            | 10051  |
| Fortress              | 10093   | Multitech        | 10180  |
| <u>F</u> ujitsu       | 10809, 10853  | NAD              | 10156, 10178, 10866                                    |
| Funai                 | 10180, 10171, 11904   | National         | 10051  |
| Furi                  | 10145   | NEC              | 10154, 10156, 10051, 10053, 10030,                     |
| Futuretech            | 10180   | Newaye           | 10178, 11704   |
| Gateway               | 11756, 11755<br>11447, 10047, 11464, 10051, 10451                       | Newave           | 10093, 10178, 10092                                    |
| GE                    | 11447, 10047, 11454, 10051, 10451, 10180, 10030, 10178, 11917, 10092,   | Nikko<br>Norcent | 10030, 10178, 10092<br>10748, 10824                    |
|                       | 10100.10030.101/0.1181/.10092.  | HOICEIIL         | 107-0. 10024   |
|                       |   | NTC              | •  |
| Gibralter             | 11907, 11922<br>10017, 10030  | NTC<br>Onwa      | 10092<br>10180   |

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

| Harwood  | 20072   | Singer   | 20072  |
|--|---|--|--|
| Hewlett Packard  | 21972   | Sonic Blue   | 20616  |
| HI-Q   | 20047   | Sony   | 20035, 20032, 20033, 20636, 21972  |
| Hitachi  | 20037, 20042, 20055   | STS  | 20042  |
| Howard Computers   | 21972   | Sylvania   | 20035, 20081, 20043  |
| HP   | 21972   | Systemax   | 21972  |
| Hughes Network Systems   | -   | Tagar Systems  | 21972  |
| iBUYPOWER  | 21972   | Tashiko  | 20037  |
| JVC 20045,   | 20067   | Tatung   | 20045, 20067   |
| KEC  | 20037, 20278  | Technics   | 20035, 20162   |
| Kenwood  | 20067, 20038  | Teco   | 20035, 20037, 20048, 20038   |
| KLH  | 20072   | Teknika  | 20035, 20037   |
| Kodak  | 20035, 20037  | Tivo   | 20636, 20618, 21503, 20739   |
| Kolin  | 20043   | TMK  | 20240  |
| LG   | 20037, 20045, 20042, 20209,   | Toshiba  | 20045, 20042, 20067, 20043, 21503,   |
|  | 20072   | TOSHIDA  | 21008, 21972   |
| Logik<br>LXI   | 20072   | Totevision   | 20037, 20240   |
|  |   |  | •  |
| Magnavox   | 20035, 20039, 20081   | Touch  | 21972  |
| Magnin   | 20240   | Unitech  | 20240  |
| Marantz  | 20035, 20081  | Vector   | 20045  |
| Marta  | 20037   | Vector Research  | 20038  |
| Matsushita   | 20035, 20162  | Victor   | 20067  |
| Media Center PC  | 21972   | Video Concepts   | 20045  |
| MEI  | 20035   | Videomagic   | 20037  |
| Memorex  | 20035, 20162, 20037, 20048, 20039,  | Videosonic   | 20240  |
|  | 20047, 20240, 20104, 20209, 20479   | Viewsonic  | 21972  |
| MGA  | 20240, 20043  | Wards  | 20060, 20035, 20048, 20047, 20081,   |
| MGN Technology   | 20240   |  | 20240, 20042, 20072  |
| Microsoft  | 21972   | White Westinghouse   | 20209, 20072   |
| Mind   | 21972   | XR-1000  | 20035, 20072   |
| Minolta  | 20042   | Yamaha   | 20038  |
| Mitsubishi   | 20067, 20043  | Zenith   | 20039, 20033, 20209, 20479   |
| Motorola   | 20035, 20048  | ZT Group   | 21972  |
| MTC  | 20240   | 21 01000   | 21012  |
| Multitech  | 20072   |  |  |
| NEC  | 20035, 20037, 20048, 20104, 20067,  |  |  |
| NEC  | 20038   | ##### Setup Codes For  | DVD Players (V) ######   |
| News   | 20037   | ###### Setup Codes For   | DVD Flayers (1) ######   |
| Newave<br>Nikko  | 20037   | A :  | 20044 24042 20770  |
|  |   | Allama   | 20641, 21912, 20770  |
| Noblex   | 20240<br>21972  | Allegro  | 20869  |
| Northgate  |   | Apex Digital   |  |
| •  |   |  | 20672, 20717, 20797, 21061, 20796,   |
| Olympus  | 20035   | . •  | 21056, 21937, 20794, 21020, 21915  |
| •  | 20035<br>21062, 20162, 20037, 20048, 20104,   | Blaupunkt  | 21056, 21937, 20794, 21020, 21915<br>20717   |
| Olympus<br>Optimus   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432  | Blaupunkt<br>Blue Parade   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695   |
| Olympus<br>Optimus<br>Orion  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479  | Blaupunkt<br>Blue Parade<br>Changhong  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061   |
| Olympus<br>Optimus<br>Orion<br>Panasonic   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225   | Blaupunkt<br>Blue Parade<br>Changhong<br>CineVision  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869  |
| Olympus<br>Optimus<br>Orion<br>Panasonic<br>Penney   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038  | Blaupunkt Blue Parade Changhong CineVision Coby  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086   |
| Olympus<br>Optimus<br>Orion<br>Panasonic<br>Penney<br>Pentax   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087  |
| Olympus<br>Optimus<br>Orion<br>Panasonic<br>Penney   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038  | Blaupunkt Blue Parade Changhong CineVision Coby  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086   |
| Olympus<br>Optimus<br>Orion<br>Panasonic<br>Penney<br>Pentax   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490<br>20521  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490<br>20521<br>20591, 20675  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise  | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490<br>20521<br>20591, 20675<br>20591   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490<br>20521<br>20591, 20675<br>20591<br>21919  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 2081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher   | 21056, 21937, 20794, 21020, 21915<br>20717<br>20571, 20695<br>20627, 21061<br>20869<br>21086<br>21087<br>21024, 21023, 21129, 20816, 21117<br>20833, 21172, 20869<br>20490<br>20521<br>20591, 20675<br>20591<br>21919<br>20675   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20042, 20067<br>20081<br>20240<br>20240<br>20060<br>20072<br>20039<br>20060   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway   | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075,  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video   | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037<br>20037  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video Greenhill   | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037<br>20037<br>20037<br>20060, 20035, 20240, 20042, 20880  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video Greenhill Harman/Kardon   | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20072<br>20037<br>20037<br>20037<br>20037<br>20060, 20035, 20240, 20042, 20880<br>20035, 20037, 20048, 20047, 20104   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037<br>20037<br>20060, 20035, 20240, 20042, 20880<br>20035, 20037, 20048, 20047, 20104<br>20616   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Phillips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20037<br>20037<br>20060, 20035, 20162<br>20037<br>20060, 20035, 20240, 20042, 20880<br>20035, 20037, 20048, 20047, 20104<br>20616<br>20039  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Phillips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo   | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20479<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037<br>20060, 20035, 20240, 20042, 20880<br>20035, 20037, 20048, 20047, 20104<br>20616<br>20039<br>20037, 20048   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung  | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 2081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20072 20037 20060, 20035, 20240, 20042, 20880 20037 20060, 20035, 20240, 20042, 20880 20035, 20037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky  | 20035<br>21062, 20162, 20037, 20048, 20104,<br>20432<br>20184, 20209, 20002, 20479<br>21062, 20035, 20162, 20616, 20225<br>20035, 20037, 20240, 20042, 20038<br>20042<br>20035, 20081, 20739, 20618<br>20037<br>20042, 20067<br>20081<br>20240<br>20060<br>20072<br>20039<br>20060<br>20035, 20162<br>20037<br>20060, 20035, 20240, 20042, 20880<br>20035, 20037, 20048, 20047, 20104<br>20616<br>20039<br>20037, 20048<br>20240, 20045, 20432<br>20048, 20039  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867   |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui                                 | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20479 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20042, 20067 20081 20240 20035, 20162 20037 20037 20037 20037 20048, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood                                  | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534  |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo                           | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20479 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20060, 20035, 20240, 20042, 20880 20035, 20037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH                              | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149  |
| Olympus Optimus Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo Scott                     | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20479 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20060, 20035, 20240, 20042, 20880 20035, 20037 20060 20035, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104 20184, 20045, 20121, 20043  | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH Koss                         | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149 20651, 21980                                 |
| Olympus Optimus Orion Panasonic Penney Pentax Philico Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo Scott Sears               | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20060, 20035, 20240, 20042, 20880 20035, 20081 20240 20060 20072 20039 20060 20037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104   | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH Koss Lasonic                 | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149 20651, 21980 20798                           |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo Scott Sears Sharp         | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20040, 20035, 20240, 20042, 20880 20035, 2037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH Koss Lasonic LG              | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149 20651, 21980 20798 20591, 20869, 20801       |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo Scott Sears Sharp Shintom | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20060, 20035, 20240, 20042, 20880 20035, 20081 20240 20060 20072 20037 20060, 20035, 20240, 20042, 20880 20035, 20037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20048, 20209 20072    | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH Koss Lasonic LG Liquid Video | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149 20651, 21980 20798 20591, 20869, 20801 21980 |
| Olympus Optimus  Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Qisheng Quasar Radix Randex RCA Realistic ReplayTV Runco Sampo Samsung Sanky Sansui Sanyo Scott Sears Sharp         | 20035 21062, 20162, 20037, 20048, 20104, 20432 20184, 20209, 20002, 20479 21062, 20035, 20162, 20616, 20225 20035, 20037, 20240, 20042, 20038 20042 20035, 20081, 20739, 20618 20037 20042, 20067 20081 20240 20060 20072 20039 20060 20035, 20162 20037 20037 20040, 20035, 20240, 20042, 20880 20035, 2037, 20048, 20047, 20104 20616 20039 20037, 20048 20240, 20045, 20432 20048, 20039 20067, 20209, 20479 20047, 20240, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 20035, 20037, 20047, 20042, 20104 20184, 20045, 20121, 20043 | Blaupunkt Blue Parade Changhong CineVision Coby Curtis Mathes CyberHome Daewoo Denon DVD2000 Emerson Enterprise Fisher Funai Gateway GE Go Video  Greenhill Harman/Kardon Hitachi Hiteker Initial Integra JBL JVC Kenwood KLH Koss Lasonic LG              | 21056, 21937, 20794, 21020, 21915 20717 20571, 20695 20627, 21061 20869 21086 21087 21024, 21023, 21129, 20816, 21117 20833, 21172, 20869 20490 20521 20591, 20675 20591 21919 20675 21158, 21073 20522, 20717 20744, 20833, 21099, 20783, 21075, 20869, 21730 20717 20582, 20702 20573, 20664, 21919 20672 20717 20627, 21924 20702 20558, 20623, 20867 20490, 20534 20717, 21020, 21149 20651, 21980 20798 20591, 20869, 20801       |

| Loewe  | 20511   | Philips   | 00317, 01305  |
|--|---|---|---|
| Magnavox   | 20503, 20539, 21976, 21914, 20675   | Pioneer   | 01877, 00877, 00144, 00533  |
| Marantz  | 20539   | Pulsar  | 00000   |
| Memorex  | 20695   | Quasar  | 00000   |
| Microsoft  | 20522   | RadioShack  | 00883   |
| Mintek   | 20717   | Regal   | 00279, 00273  |
| Mitsubishi   | 21521, 20521  | Runco   | 00000   |
| Nesa   | 20717   | Samsung   | 00000, 00144  |
| Norcent  | 21003   | Scientific Atlanta  | 01877, 00877, 00477, 00008  |
| Onkyo  | 20503, 20627, 21924, 20792  | Sony  | 01006   |
| Oritron  | 20651, 21980  | Starcom   | 00003, 00014  |
| Panasonic  | 20490, 21762, 21990   | Supercable  | 00276   |
| Philips  | 20503, 20539, 20646, 21914  | Supermax  | 00883   |
| Pioneer  | 20525, 20571  | Tocom   | 00012   |
| Polaroid   | 21086, 21061  | Torx  | 00003   |
| Polk Audio   | 20539   | Toshiba   | 00000   |
| Portland   | 20770   | Trans PX  | 00276   |
|  |   |   |   |
| Proscan  | 20522   | Tristar   | 00883   |
| Qwestar  | 20651   | TS  | 00003   |
| RCA  | 20522, 20571, 20717, 20822  | V2  | 00883   |
| Rio  | 20869   | Viewmaster  | 00883   |
| Rotel  | 20623   | Vision  | 00883   |
| Sampo  | 20752, 20698, 20490, 20573, 21932,  | Vortex View   | 00883   |
|  | 21075, 20820  | Zenith  | 00000, 00525, 00899   |
| Sansui   | 20695   |   |   |
| Sanyo  | 20695   |   |   |
| Sharp  | 20630, 20752  |   |   |
| Sharper Image  | 21117   | ###### Setup Codes For S  | atellite Receivers (S) #####  |
| Sherwood   | 20770   | -   | , ,   |
| Shinco   | 20717   | AlphaStar   | 00772   |
| Shinsonic  | 20533   | Chaparral   | 00216   |
| Sonic Blue   | 20869, 21099  | Crossdigital  | 01109   |
| Sony   | 20533, 20864, 21033, 21904, 21903   | DirecTV   | 00392, 00566, 00639, 01142, 00247,  |
| SVA  | 20717   | 2   | 00749, 01749, 00724, 00819, 01856,  |
| Sylvania   | 20675   |   | 01076, 01109, 00099, 01392, 01640,  |
| Symphonic  | 20675   |   | 01442, 01414, 01108   |
| Teac   |   | Dish Natwork System   |   |
|  | 20717, 21984, 20809   | Dish Network System   | 01005, 00775, 01505   |
| Technics   | 20490   | Dishpro   | 01005, 00775, 01505   |
| Theta Digital  | 20571   | Echostar  | 01005, 00775, 01505   |
| Toshiba  | 20503, 20695  | Expressvu   | 00775   |
| Urban Concepts   | 20503   | GE  | 00566   |
| Xbox   | 20522   | General Instrument  | 00869   |
| Yamaha   | 20490, 20539, 20545   | GOI   | 00775   |
| Zenith   | 20503, 20591, 20869   | Goodmans  | 01246   |
|  |   | Hisense   | 01535   |
|  |   | 11:4  |   |
|  |   | Hitachi   | 00819, 00222, 01250   |
|  |   | HTS   | 00775   |
| ###### Setup Codes For   | Cable Converters (C) ######   | HTS   | 00775   |
| ###### Setup Codes For   | Cable Converters (C) ######   | HTS   | •   |
| ###### Setup Codes For   | Cable Converters (C) ###### 00003, 00008, 00014, 00899  | HTS<br>Hughes Network Systems   | 00775<br>01142, 00749, 01749, 01442   |
|  |   | HTS<br>Hughes Network Systems<br>I-Lo   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775   |
| ABC  | 00003, 00008, 00014, 00899  | HTS<br>Hughes Network Systems<br>I-Lo<br>JVC<br>LG  | 00775<br>01142, 00749, 01749, 01442<br>01535  |
| ABC<br>Bell & Howell   | 00003, 00008, 00014, 00899<br>00014   | HTS<br>Hughes Network Systems<br>I-Lo<br>JVC  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226   |
| ABC<br>Bell & Howell<br>Bell South   | 00003, 00008, 00014, 00899<br>00014<br>00899  | HTS<br>Hughes Network Systems<br>I-Lo<br>JVC<br>LG<br>Magnavox  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226   |
| ABC<br>Bell & Howell<br>Bell South<br>Clearmaster  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>00883   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>00883<br>01877, 00877, 00477, 00008   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>00883<br>01877, 00877, 00477, 00008   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076,  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476<br>00476, 00810, 00276, 00003, 00014   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips Proscan   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476<br>00476, 00810, 00276, 00003, 00014<br>00144  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00476<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273<br>00014<br>00476, 00810, 00276, 00003, 00012,  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392,   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869<br>00566, 00855, 00143, 01392  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00476<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273<br>00014<br>00476, 00810, 00276, 00003, 00012, 00014  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869<br>00566, 00855, 00143, 01392<br>01276, 01109, 01108                                   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold   | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273<br>00014<br>00476, 00810, 00276, 00003, 00012, 00014   | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869<br>00566, 00855, 00143, 01392<br>01276, 01109, 01108<br>01219                          |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG  | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273<br>00014<br>00476, 00810, 00276, 00003, 00012, 00014<br>00476, 00810, 00276, 00003, 00012, 00014      | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY   | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869<br>00566, 00855, 00143, 01392<br>01276, 01109, 01108<br>01219<br>00856                 |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG Memorex                                      | 00003, 00008, 00014, 00899<br>00014<br>00899<br>00883<br>00883<br>01877, 00877, 00477, 00008<br>00637<br>00476<br>00637<br>00476, 00810, 00276, 00003, 00014<br>00144<br>00009, 00273<br>00014<br>00476, 00810, 00276, 00003, 00012, 00014<br>00476, 00810, 00276, 00003, 00012, 00014      | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony  | 00775<br>01142, 00749, 01749, 01442<br>01535<br>00775<br>01414, 01226<br>00724, 00722<br>00749<br>00869<br>01270<br>00869<br>00247, 00701<br>00724<br>01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442<br>00392, 00566<br>01535<br>00869<br>00566, 00855, 00143, 01392<br>01276, 01109, 01108<br>01219<br>00856<br>00639, 01640 |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG Memorex Motorola                             | 00003, 00008, 00014, 00899 00014 00899 00883 00883 01877, 00877, 00477, 00008 00637 00476 00637 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376                                     | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice                                | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869  |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG Memorex Motorola MultiVision                 | 00003, 00008, 00014, 00899 00014 00899 00883 00883 00883 01877, 00877, 00477, 00008 00637 00476 00637 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376 00012                         | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice Tivo                           | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869 01142, 01442   |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG Memorex Motorola MultiVision Pace            | 00003, 00008, 00014, 00899 00014 00899 00883 00883 00883 01877, 00877, 00477, 00008 00637 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376 00012 01877, 00237                  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice Tivo Toshiba                   | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869 01142, 01442 00749, 01749, 00790, 01285              |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold  KNC LG Memorex Motorola MultiVision Pace Panasonic | 00003, 00008, 00014, 00899 00014 00899 00883 00883 01877, 00877, 00477, 00008 00637 00476 00476, 00810, 00276, 00003, 00014 00476, 00810, 00276, 00003, 00012, 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376 00012 01877, 00237 00000, | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice Tivo Toshiba UltimateTV        | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869 01142, 01442 00749, 01749, 00790, 01285 01640, 01392 |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG Memorex Motorola MultiVision Pace            | 00003, 00008, 00014, 00899 00014 00899 00883 00883 00883 01877, 00877, 00477, 00008 00637 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376 00012 01877, 00237                  | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice Tivo Toshiba UltimateTV Uniden | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869 01142, 01442 00749, 01749, 00790, 01285              |
| ABC Bell & Howell Bell South Clearmaster ClearMax Coolmax Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold  KNC LG Memorex Motorola MultiVision Pace Panasonic | 00003, 00008, 00014, 00899 00014 00899 00883 00883 01877, 00877, 00477, 00008 00637 00476 00476, 00810, 00276, 00003, 00014 00476, 00810, 00276, 00003, 00012, 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144 00000 00476, 00810, 00276, 01254, 01376 00012 01877, 00237 00000, | HTS Hughes Network Systems I-Lo JVC LG Magnavox Memorex Mitsubishi Motorola NEC Next Level Panasonic Paysat Philips  Proscan Proton RadioShack RCA 00392, Samsung Sanyo SKY Sony Star Choice Tivo Toshiba UltimateTV        | 00775 01142, 00749, 01749, 01442 01535 00775 01414, 01226 00724, 00722  00749 00869 01270 00869 00247, 00701 00724 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442 00392, 00566 01535 00869 00566, 00855, 00143, 01392 01276, 01109, 01108 01219 00856 00639, 01640 00869 01142, 01442 00749, 01749, 00790, 01285 01640, 01392 |

| 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) #####

| ###### 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, |
| 17                     | 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                       |
| P                      | , ••••                             |

| Silsonic Sonic Frontiers Sony Soundesign TAG McLaren Tascam Teac | 30888, 30036<br>30157<br>30490, 30000, 30100<br>30145<br>30157<br>30420<br>30420 |
|--|--|
| 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 <sup>°</sup>                                |
| 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   |
|                     | 31189, 31269, 30531                               |
| Magnavox<br>Marantz | 31189, 31269, 30039                               |
| MCS                 | 30039   |
|                     | 30842, 30135                                      |
| Onkyo<br>Optimus    |   |
| Panasonic           | 31023, 30670, 30531, 31074                        |
|                     | 31518, 30039<br>34180, 34360                      |
| Philips             | 31189, 31269<br>31023, 30150, 30014, 30630, 30531 |
| Proces              | 31254   |
| Proscan<br>Qisheng  | 31609   |
| _                   | 30039   |
| Quasar              |   |
| 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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