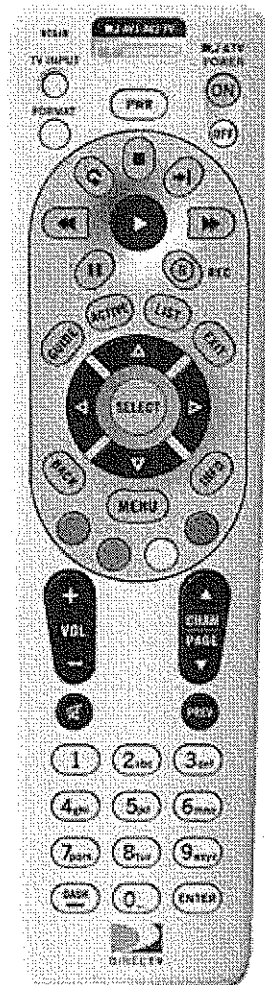


**DIRECTV®**



**DIRECTV®**  
**Universal Remote Control**  
**User Guide**

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## INTRODUCTION

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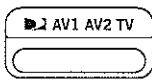




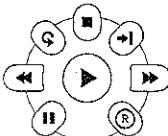





Congratulations! You now have an exclusive DIRECTV® Universal Remote Control that will control four components, including a DIRECTV Receiver, TV, and two stereo or video components (for example, a DVD, stereo, or second TV). Moreover, its sophisticated technology allows you to consolidate the clutter of your original remote controls into one easy-to-use unit that's packed with features such as:









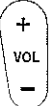
- Four-position **MODE** slide switch for easy component selection
- Code library for popular video and stereo components
- Code search to help program control of older or discontinued components
- Memory protection to ensure you will not have to re-program the remote when the batteries are replaced

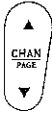


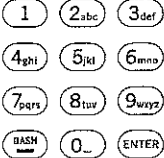
Before using your DIRECTV Universal Remote Control, you may need to program it to operate with your particular component. Please follow the instructions detailed in this guide to set up your DIRECTV Universal Remote Control so you can start enjoying its features.

## FEATURES AND FUNCTIONS

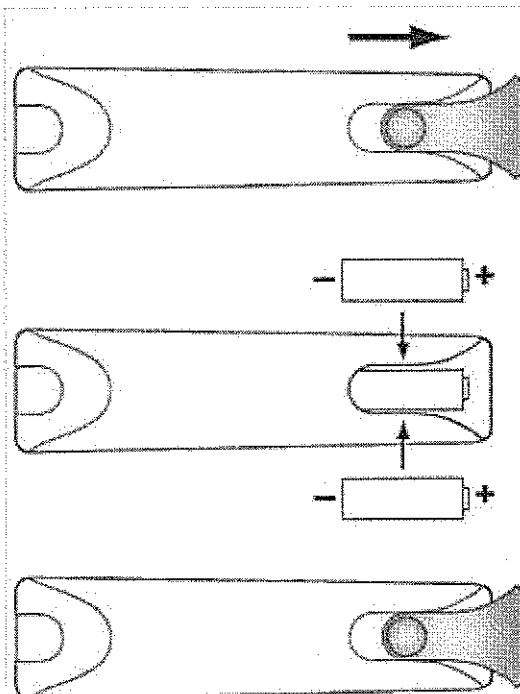
### Key Charts

Press this key...	To...
	Slide the <b>MODE</b> switch to the <b>DIRECTV</b> , <b>AV1</b> , <b>AV2</b> or <b>TV</b> positions to select the component you want to control. A green LED under each switch position indicates the component being controlled.
	Press <b>TV INPUT</b> to select the available inputs on your TV. <b>NOTE:</b> Additional setup is required to activate the TV INPUT key. (See instructions on page 9.)
	Press <b>FORMAT</b> to cycle through the resolution and screen formats. Each press of the key cycles to the next available format and/or resolution. (Not available on all DIRECTV® Receivers.)
	Press <b>PWR</b> to turn the selected component on or off.
	Press <b>TV POWER ON/OFF</b> to turn the TV and DIRECTV Receiver on or off. <b>(NOTE:</b> These keys are only active after the remote has been setup for your TV. See page 8.)
	Use these keys to control your DIRECTV DVR or your VCR, DVD, or CD/DVD player.  On a DIRECTV DVR, enables one-touch record for any selected program.  Jumps back 6 seconds and plays video from that location.  Jumps ahead in a recording.
	Use <b>GUIDE</b> to display the DIRECTV Program Guide.
	Press <b>ACTIVE</b> to access special features, services, and the DIRECTV Information channel.

Press this key...	To...
	Press <b>LIST</b> to display your TO DO list of programs. (Not available on all DIRECTV® Receivers.)
	Press <b>EXIT</b> to exit menu screens and the Program Guide and return to live TV.
	Press <b>SELECT</b> to choose highlighted items in menu screens or the Program Guide.
	Use the <b>ARROW</b> keys to move around in the Program Guide and menu screens.
	Press <b>BACK</b> to return to the previously displayed screen.
	Press <b>MENU</b> to display the Quick Menu in DIRECTV mode, or other menu for another selected device.
	Use <b>INFO</b> to display current channel and program information when watching live TV or in the Guide.
	<p>Press <b>YELLOW</b> in full-screen TV to cycle through alternate audio tracks</p> <p>Press <b>BLUE</b> in full-screen TV to display the Mini-Guide.</p> <p>Press <b>RED</b> in the Guide to jump 12 hours back.</p> <p>Press <b>GREEN</b> in the Guide to jump 12 hours forward.</p> <p>Other functions vary—look for onscreen hints or refer to your DIRECTV® Receiver's user guide. (Not available on all DIRECTV Receivers.)</p>
	Press <b>VOL</b> to raise or lower the sound volume. The volume key is only active when the remote is set up for your TV.

Press this key...	To...
	<p>While watching TV, press <b>CHAN▲</b> (or <b>CHAN▼</b>) to select the next higher (or lower) channel.</p> <p>While in the DIRECTV Program Guide or menu, press <b>PAGE+</b> (or <b>PAGE-</b>) to page up (or down) through available channels in the Guide.</p>
	Press <b>MUTE</b> to turn the sound off or back on.
	Press <b>PREV</b> to return to the last channel viewed.
	<p>Press the number keys to directly enter a channel number (e.g. <b>207</b>) while watching TV or in the Guide.</p> <p>Press <b>DASH</b> to separate main and sub-channel numbers.</p> <p>Press <b>ENTER</b> to activate number entries quickly.</p>

## INSTALLING BATTERIES



1. On the back of the remote control, push down on the door (as shown), slide the battery cover off, and remove the used batteries.
2. Obtain two (2) new AA alkaline batteries. Match their + and - marks to the + and - marks in the battery case, then insert them.
3. Slide the cover back on until battery door clicks into place.

## CONTROLLING YOUR DIRECTV® RECEIVER

The DIRECTV® Universal Remote Control comes programmed to work with most DIRECTV Receivers. Should the remote control not work with your DIRECTV Receiver, you will need to set up the remote control by performing the following steps.

### Setting Up Your DIRECTV Remote

1. Locate the DIRECTV Receiver's brand and model number (on the back or bottom panel) and write it in the spaces below.

BRAND: .....

MODEL: .....

2. Locate the 5-digit code for your DIRECTV® Receiver. (See page 14.)
3. Power on the DIRECTV Receiver.
4. Slide the **MODE** switch to the DIRECTV position.
5. Press and hold the **MUTE** and **SELECT** keys until the green light under the **DIRECTV** position flashes twice, then release both keys.
6. Using the number keys, enter the 5-digit code. If performed correctly, the green light under the **DIRECTV** position flashes twice.
7. Aim the remote at your DIRECTV Receiver and press the **PWR** key once. The DIRECTV Receiver should turnoff; if it does not, repeat steps 3 and 4, trying each code for your brand until you find the correct code.
8. For future reference, write down the working code for your DIRECTV Receiver in the blocks below:

--	--	--	--	--

## ONSCREEN REMOTE SETUP

---

Once your remote is setup to work with your DIRECTV Receiver, you can set it up for your other equipment using the steps detailed on the following pages, or you can set it up onscreen by pressing **MENU**, then **SELECT** on Settings, Setup in the Quick Menu, then selecting Remote from the left menu.

## CONTROLLING YOUR TV

---

Once you have successfully set up your DIRECTV Remote to operate your DIRECTV Receiver, you can set it up to control your TV. **We recommend you use the on-screen steps described on page 8**, but you can also use the manual method below:

1. Turn on the TV.
- NOTE:** Please read steps 2-5 completely before proceeding. Highlight or write down the codes and component you wish to set up before moving on to step 2.
2. Locate the 5-digit code for your TV. (See "Setup Codes for TVs" on page 15.)
  3. Slide the **MODE** switch to the TV position.
  4. Press and hold the **MUTE** and **SELECT** keys at the same time until the green light under the TV position flashes twice, then release both keys.
  5. Using the number keys enter the 5-digit code for your brand of TV. If performed correctly, the green light under **TV** flashed twice.
  6. Aim the remote at your TV and press the **PWR** key once. Your TV should turn off. If it does not turn off, repeat steps 3 and 4, trying each code for your brand until you find the correct code.



7. Slide the **MODE** switch to the **DIRECTV** position. Press **TV POWER**. Your TV should turn on.
8. For future reference, write down the working code for your TV in the blocks below:

--	--	--	--	--

## SETTING UP THE TV INPUT KEY

---

Once you have setup the DIRECTV® Remote control for your TV, you can activate the **TV INPUT** key so you can change the "source"—the piece of equipment whose signal is displayed on your TV.

1. Slide the **MODE** switch to the **TV** position.
2. Press and hold the **MUTE** and **SELECT** keys until the green light under the TV position flashes twice, then release both keys.
3. Using the number keys enter **9-6-0**. (The green light under the TV position flashes twice.)

You now can change the input for your TV.

### Deactivating the TV Input Select Key

If you want to deactivate the **TV INPUT** key, repeat steps 1 through 3 from the previous section; the green light will blink 4 times. Pressing the **TV INPUT** key will now do nothing.

## CONTROLLING OTHER COMPONENTS

---

The **AV1** and **AV2** switch positions can be setup to control a VCR, DVD, STEREO, second DIRECTV Receiver or second TV. We recommend you use the onscreen steps described on page 8, but you can also use the manual method below:

1. Turn on the component you wish to control (e.g. your DVD Player).
2. Locate the 5-digit code for your component. (See "Setup Codes, Other Devices" starting on page 15.)
3. Slide the **MODE** switch to the **AV1** (or **AV2**) position.
4. Press and hold the **MUTE** and **SELECT** keys at the same time until the green light under **AV1** (or **AV2**) flashes twice, then release both keys.
5. Using the **NUMBER** keys, enter the 5-digit code for the brand of component being set up. If performed correctly, the green light under the selected position flashes twice.
6. Aim the remote at your component and press the **PWR** key once. The component should turn off; if it does not, repeat steps 3 and 4, trying each code for your brand until you find the correct code.

7. Repeat steps 1 through 6 to set up a new component under **AV2** (or **AV1**).
8. For future reference write down the working code for the component(s) set up under **AV1** and **AV2** below:

**AV1:**

--	--	--	--	--

**COMPONENT:** \_\_\_\_\_

**AV2:**

--	--	--	--	--

**COMPONENT:** \_\_\_\_\_

### SEARCHING FOR TV, AV1 OR AV2 CODES

If you were unable to find the code for your brand of TV or component, you can try a code search. This process may take up to 30 minutes.

1. Turn on the TV or component. Insert a tape or disk if applicable.
2. Slide the **MODE** switch to the **TV, AV1** or **AV2** position, as desired.
3. Press and hold the **MUTE** and **SELECT** keys at the same time until the green light under the selected switch position flashes twice, then release both keys.
4. Enter **9-9-1** followed by one of the following four-digits:

COMPONENT TYPE	COMPONENT ID #
Satellite	0
TV	1
VCR/DVD/PVR	2
Stereo	3

5. Press **PWR**, or other functions (e.g. **PLAY** for VCR) you want to use.
6. Point the remote at the TV or component and press **CHAN▲**. Repeatedly press **CHAN▲** until the TV or component turns off or performs the action you selected in step 5.

**NOTE:** Every time **CHAN▲** is pressed the remote advances to the next code and power is transmitted to the component.

7. Use the **CHAN▼** key to step back a code.
8. When the TV or component turns off or performs the action you selected in step 5, stop pressing the **CHAN▲** key. Then, press and release the **SELECT** key.

**NOTE:** If the light flashes 3 times before the TV or component responds, you've cycled through all codes and the code you need is not available. You must use the remote that came with your TV or component.

### Verifying the Codes

Once you have set up the DIRECTV® Universal Remote Control using the above steps, use the following instructions to find out the 5-digit code to which your component responded:

1. Slide the **MODE** switch to the appropriate position.
2. Press and hold the **MUTE** and **SELECT** keys at the same time until the green light under the selected switch position flashes twice, then release both keys.
3. Enter **9-9-0**. (The green light under the selected switch position flashes twice.)
4. To view the first digit in the code, Press and release then number **1** key. Wait three seconds, and count the number of times the green light flashes. Write this number down in the leftmost TV, AV1 or AV2 code box found on page 10.
5. Repeat step 4 four more times for the remaining digits; i.e., press number **2** for the second digit, **3** for the third digit, **4** for the fourth digit and **5** for the final digit.

## CHANGING VOLUME LOCK

Depending on how you set up your remote, the **VOL** and **MUTE** may control the volume only on your TV, regardless of the position of the **MODE** switch. This remote can be set up so that the **VOL** and **MUTE** keys work *only* with the component selected by the **MODE** switch. To enable this feature, perform the following steps:

1. Press and hold the **MUTE** and **SELECT** keys until the green light under the **DIRECTV** position flashes twice, then release both keys.
2. Using the number keys, enter **9-9-3**. (The green light will flash twice after the **3**.)
3. Press and release the **VOL+** key. (The green light flashes 4 times.)

Now the **VOL** and **MUTE** keys will work *only* for the component selected by the **MODE** switch position.

### Locking Volume to AV1, AV2 or TV

1. Slide the **MODE** switch to the **AV1**, **AV2** or **TV** position to lock the volume.
2. Press and hold the **MUTE** and **SELECT** keys until the green light under the selected switch flashes twice and release both keys.

3. Using the number keys, enter **9-9-3**. (The green light flashes twice.)
4. Press and release the **SELECT** key. (The green light flashes twice.)

**NOTE:** DIRECTV® Receivers don't have volume control, so the remote will not allow the user to lock volume to the DIRECTV mode.

## ACTIVATING AND DEACTIVATING THE RF TRANSMITTER

---

Your DIRECTV Remote Control features RF (radio frequency) capability. When you activate the RF feature of your remote control, you can control your DIRECTV Receiver from anywhere in your home. You do not need to be within the line of sight of your receiver to control it.

**NOTE:** Not all DIRECTV Receivers are RF-capable. Also, some RF-capable DIRECTV Receivers include integrated RF antennas and do not require an external antenna. If your receiver requires the external RF antenna, before activating the RF transmitter, locate the RF antenna included with your remote control and insert it into the RF remote antenna coaxial connector on the back of your DIRECTV Receiver.

### Activating the RF Transmitter

To activate the RF transmitter on your DIRECTV Remote Control, perform the following steps:

1. Locate the 12 digit Receiver ID (RID) number of your DIRECTV Receiver. You can find the RID number on the back panel of your receiver, or inside the CAM access door next to the reset button.
2. Write down the last six digits of the RID number.
3. Slide the mode switch to **DIRECTV, AV1**, or **AV2**.
4. Press and hold the **MUTE** and **SELECT** keys until the green light under the selected switch flashes twice and release both keys.
5. Using the number keys, enter **9 6 1**. (The green light flashes twice.)
6. Press and release **CHAN▲**. (The green light flashes twice.)
7. Using the **NUMBER** keys, enter the last six digits of the RID number. (See step 2 above.)
8. Press and release the **SELECT** key. (The green light flashes twice.)

### Deactivating the RF Transmitter

To deactivate the RF transmitter on your DIRECTV Remote Control, perform the following steps:

1. Slide the mode switch to **DIRECTV, AV1**, or **AV2**.
2. Press and hold the **MUTE** and **SELECT** keys until the green light under the selected switch flashes twice and release both keys.
3. Using the number keys, enter **9 6 1**. (The green light flashes twice.)

4. Press and release **CHAN** . (The green light flashes twice.)

The RF transmitter on your remote control is now deactivated. To reactivate the RF transmitter, See "Activating the RF Transmitter" above.

## RESTORING FACTORY DEFAULT SETTINGS

---

To reset all the functions of the remote control to the factory defaults (the original, out-of-the-box settings), follow these steps:

1. Press and hold the **MUTE** and **SELECT** keys at the same time until the green light flashes twice, then release both keys.
2. Using the number keys, enter **9-8-1**. (The green light flashes 4 times.)

## TROUBLESHOOTING

---

**PROBLEM:** Light at the top of the remote blinks when you press a key, but the component does not respond.

**SOLUTION 1:** Try replacing the batteries (see page 7).



**SOLUTION 2:** Make sure you are aiming the DIRECTV® Universal Remote Control at your home entertainment component and that you are within 15 feet of the component you are trying to control.

**PROBLEM:** The DIRECTV Universal Remote Control does not control component or commands are not recognized properly.

**SOLUTION:** Try all listed codes for the device brand being set up. Make sure all components can be operated with an infrared remote control.

**PROBLEM:** TV/VCR combo does not respond properly.

**SOLUTION:** Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation (see page 8).

**PROBLEM:** **CHAN** , **CHAN** , and **PREV** do not work for your RCA TV.

**SOLUTION:** Due to RCA design for certain models (1983-1987), only the original remote control will operate these functions.

**PROBLEM:** Changing channels does not work properly.

**SOLUTION:** If original remote control required pressing **ENTER** to change channels, press **ENTER** on the DIRECTV Universal remote control after entering a channel number.

**PROBLEM:** Remote control does not turn on Sony or Sharp TV/VCR Combo.

**SOLUTION:** For power on, these products require setting up TV codes on the remote control. For Sony, use TV code 10000 and VCR code 20032. For Sharp, use TV code 10093 and VCR code 20048. (See "Controlling Other Components" on page 9.)

## DIRECTV SETUP CODES

### Setup Codes for DIRECTV® Receivers

DIRECTV all models	00001, 00002
Hughes Network Systems (most models)	00749
Hughes Network Systems models GAEBO, GAEBOA, GCB0, GCEBOA, HIBH-SA, HAH-SA	01749
GE models GRD33G2A and GRD33G3A, GRD122GW	00566
Philips models DSX5500 and DSX5400	00099
Proscan models PRD8630A and PRD8650B	00566
RCA models DRD102RW, DRD203RW, DRD301RA, DRD302RA, DRD303RA, DRD403RA, DRD703RA, DRD502RB, DRD 503RB, DRD505RB, DRD515RB, DRD523RB, and DRD705RB	00566
DRD440RE, DRD460RE, DRD480RE, DRD430RG, DRD431RG, DRD450RG, DRD451RG, DRD485RG, DRD486RG, DRD430RGA, DRD450RGA, DRD485RGA, DRD435RH, DRD455RH, and DRD486RH	00392
Samsung model SIR-S60W	01109
Samsung models SIR-S70, SIR-S75, SIR-S300W, and SIR-S310W	01108
Sony models (All models except TiVo and Ultimate TV)	01639

### Setup Codes for DIRECTV HD Receivers

DIRECTV all models	00001, 00002
Hitachi model 61HDX98B	00819
HNS models HIRD-E8, HTL-HD	01750
LG model LSS-3200A, HTL-HD	01750
Mitsubishi model SR-HD5	01749, 00749
Philips model DSHD800R	01749
Proscan model PSHD105	00392
RCA models DTC-100, DTC-210	00392
Samsung model SIR-TS360	01609
Samsung models SIR-TS160	01276

Sony models SAT-HD100, 200, 01639  
300

Toshiba models DST-3000, 01749, 01285  
DST-3100, DW65X91

Zenith models DTV1080, HD- 01856  
SAT520

#### Setup Codes for DIRECTV® DVRs

DIRECTV all models 00001, 00002

HNS models SD-DVR80, SD- 01442  
DV40, SD-DVR120,  
HDVR2, GXCEBOT, GXCEBOTD

Philips models DSR704, 01142, 01442  
DSR708, DSR6000,  
DSR600R, DRS700/17

RCA models DWD490RE, 01392  
DWD496RG

RCA models DVR39, 40, 80, 120 01442

Sony model SAT-T60 00639

Sony model SAT-W60 01640

Samsung models SIR-S4040R, 01442  
SIR-S4080R, SIR-S4120R

### SETUP CODES, OTHER DEVICES

#### Setup Codes for TVs

3M 11616

A-Mark 10003

Abex 10032

Accurian 11803

Action 10873

Admiral 10093, 10463

Advent 10761, 10783, 10815, 10817,  
10842, 11933

Adventura 10046

Aiko 10092, 11579

Aiwa 10701

Akai 10812, 10702, 10030, 10098,  
10672, 11207, 11675, 11676,  
11688, 11689, 11690, 11692,  
11693, 11903, 11935

Akura 10264

Aaron 10179, 10183, 10216, 10208,  
10208

Albatron 10700, 10843

Alfide 10672

Ambassador 10177

America Action 10180

Ampro 10751

Amstrad	10412
Anam	10180, 10004, 10009, 10068
Anam National	10055, 10161
AOC	10030, 10003, 10019, 10052, 10137, 10185, 11365
Apex Digital	10748, 10879, 10765, 10767, 10890, 11217, 11943
Archer	10003
Astar	11531, 11548
Audinac	10180, 10391
Audiovox	10451, 10180, 10092, 10003, 10623, 10710, 10802, 10846, 10875, 11284, 11937, 11951, 11952
Aventura	10171
Axion	11937
Bang & Olufsen	11620
Barco	10556
Baysonic	10180
Baur	10010, 10535
Belcor	10019
Bell & Howell	10154, 10016
BenQ	11032, 11212, 11315
Blue Sky	10556, 11254
Blaupunkt	10535
Boigle	11696
Boxlight	10752
BPL	10208
Bradford	10180
Brilliant	11007, 11255, 11257, 11258
Brockwood	10019
Broksonic	10236, 10463, 10003, 10642, 11911, 11929, 11935, 11938
Byd:sign	11309, 11311
Cadia	11283
Candle	10030, 10046, 10056, 10186
Carnivale	10030
Carver	10054, 10170
Casio	11205
CCE	10037, 10217, 10329
Celebrity	10000
Celera	10765
Champion	11362
Changhong	10765
Cinego	11986
Cineral	10451, 10092



Citizen	10060, 10030, 10092, 10039, 10046, 10056, 10186, 10280, 11928, 11935
Clairtone	10185
Clarion	10180
Commercial Solutions	11447, 10047
Concerto	10056
Contec	10180, 10157, 10158, 10185
Craig	10180, 10161
Crosley	10054
Crown	10180, 10039, 10672, 11446
Crown Mustang	10672
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 11919, 11347, 11147, 10747, 10466, 10056, 10039, 10016
CXC	10180
CyberHome	10794
Cytron	11326
Daewoo	10451, 10092, 11661, 10019, 10039, 10066, 10067, 10091, 10623, 10661, 10672, 11928
Daytron	10019
De Graaf	10208
Dell	11080, 11178, 11264, 11403
Delta	11369
Denon	10145, 10511
Denstar	10628
Diamond Vision	11996, 11997
Digital Projection Inc.	11482
Dumont	10017, 10019, 10070
Durabrand	10463, 10180, 10178, 10171, 11034, 10003
Dwin	10720, 10774
Dynatech	10049
Ectec	10391
Electroband	10000, 10185
Electrograph	11623, 11755
Electrohome	10463, 10381, 10389, 10409
Elektra	10017, 11661
Emerson	10154, 10236, 10463, 10180, 10178, 10171, 11963, 11944, 11929, 11928, 11911, 11394, 10623, 10282, 10280, 10270, 10185, 10183, 10182, 10181, 10179, 10177, 10158, 10039, 10038, 10019
Emprex	11422, 11546

Envision	10030, 10813, 11365
Epson	10833, 10840, 11122, 11290
Erres	10012
ESA	10812, 10171, 11944, 11963
Ferguson	10005
Fidelity	10082
Finlandia	10208
Finlux	10070, 10105
Fisher	10154, 10159, 10208
FlexVision	10710
Frontech	10264
Fujitsu	10179, 10186, 10683, 10809, 10853
Funai	10180, 10171, 10179, 11271, 11904, 11963
Futuretech	10180, 10264
Gateway	11001, 11002, 11003, 11004, 11755, 11756
GE	11447, 10047, 10051, 10451, 10178, 11922, 11919, 11917, 11347, 10747, 10282, 10279, 10251, 10174, 10138, 10135, 10055, 10029, 10027, 10021
Gibralter	10017, 10030, 10019
Go Video	10886
GoldStar	10178, 10030, 10001, 10002, 10019, 10032, 10106, 10409, 11926
Goodmans	10360
Gradiente	10053, 10056, 10170, 10392, 11804
Granada	10208, 10339
Grundig	10037, 10195, 10672, 10070, 10535
Grunpy	10180, 10179
H & B	11366
Haier	11034, 10768
Hallmark	10178
Hannspree	11348, 11351, 11352
Hantarex	11338
HCM	10412
Harley Davidson	10043, 10179, 11904
Harman/Kardon	10054, 10078
Harvard	10180, 10068
Havermy	10093
Helios	10865
Hello Kitty	10451

Hewlett Packard	11088, 11089, 11101, 11494, 11502, 11642
Himitsu	10180, 10628, 10779
Hisense	10748
Hitachi	11145, 10145, 11960, 11904, 11445, 11345, 11045, 10797, 10583, 10577, 10413, 10409, 10279, 10227, 10173, 10151, 10097, 10095, 10056, 10038, 10032, 10016, 10105
HP	11088, 11089, 11101, 11494, 11502, 11642
Humax	11501
Hyundai	10849, 11219, 11294
Hypson	10264
ICE	10264
Intervision	10264
iLo	11286, 11603, 11684, 11990
Infinity	10054
InFocus	10752, 11164, 11430, 11516
Initial	11603, 11990
Innova	10037
Insignia	10171, 11204, 11326, 11517, 11564, 11641, 11963, 12002
Inteq	10017
IRT	10451, 11661, 10628, 10698
IX	10877
Janeil	10046
JBL	10054
JCB	10000
Jensen	10761, 10050, 10815, 10817, 11299, 11933
JVC	10463, 10053, 10036, 10069, 10160, 10169, 10182, 10731, 11253, 11302, 11923, 10094
Kamp	10216
Kawasho	10158, 10216, 10308
Kaypani	10052
KDS	11498
KEC	10180
Ken Brown	11321
Kenwood	10030, 10019
Kioto	10054, 10706, 10556, 10785
KLH	10765, 10767, 11962
Kloss	10024, 10046, 10078
KMC	10106
Konka	10628, 10632, 10638, 10703, 10707, 11939, 11940

Kost	11262, 11483
Kreisen	10876
KTV	10180, 10030, 10039, 10183, 10185, 10217, 10280
Leyco	10264
Local India TV	10208
LG	11265, 10178, 10030, 10056, 10442, 10700, 10823, 10829, 10856, 11178, 11325, 11423, 11758, 11993
Lloyd's	11904
Loewe	10136, 10512
Logik	10016
Luxman	10056
LXI	10047, 10054, 10154, 10156, 10178, 10148, 10747
M & S	10054
MAG	11498
Magnasonic	11928
Magnavox	11454, 10054, 10030, 10706, 11990, 11963, 11944, 11931, 11904, 11525, 11365, 11254, 11198, 10802, 10386, 10230, 10187, 10186, 10179, 10096, 10036, 10028, 10024, 10020
M Electronic	10105
Manesth	10264
Matsui	10208
Mediator	10012
Metz	10535
Minerva	10070, 10535
Minoka	10412
Mitsubishi	10535
Majestic	10015, 10016
Marantz	10054, 10030, 10037, 10444, 10704, 10854, 10855, 11154, 11398
Matsushita	10250, 10650
Maxent	10762, 11211, 11755, 11757
Megapower	10700
Megatron	10178, 10145, 10003
MEI	10185
Memorex	10154, 10463, 10150, 10178, 10016, 10106, 10179, 10877, 11911, 11926
Mercury	10001
MGA	10150, 10178, 10030, 10019, 10155
Micro	11436

Midland	10047, 10017, 10051, 10032, 10039, 10135, 10747
Mintek	11603, 11990
Minutz	10021
Mitsubishi	10093, 11250, 10150, 10178, 11917, 11550, 11522, 11392, 11151, 10868, 10836, 10358, 10331, 10155, 10098, 10019, 10014
Monivision	10700, 10843
Motorola	10093, 10055, 10835
Moxell	10835
MTC	10060, 10030, 10019, 10049, 10056, 10091, 10185, 10216
Multitech	10180, 10049, 10217
NAD	10156, 10178, 10037, 10056, 10866, 11156
Nakamichi	11493
NEC	10030, 10019, 10036, 10056, 10170, 10434, 10497, 10882, 11398, 11704
Netsat	10037
NetTV	10762, 11755
Neovia	11338
Nikkai	10264
Nikko	10178, 10030, 10092, 10317
Niko	11581, 11618
Nisato	10391
Noblex	10154, 10430
Norcent	10748, 10824, 11089, 11365, 11589, 11590, 11591
Norwood Micro	11286, 11296, 11303
Noshi	10018
NTC	10092
Olevia	11144, 11240, 11331, 11610
Olympus	11342
Onwa	10180
Optimus	10154, 10250, 10166, 10650
Optoma	10887, 11622, 11674
Optonica	10093, 10165
Orion	10236, 10463, 11463, 10179, 11911, 11929
Osaki	10264, 10412
Otto Versand	10010, 10535
Panasonic	10250, 10051, 11947, 11946, 11941, 11919, 11510, 11480, 11410, 11310, 11291, 10650, 10375, 10338, 10226, 10162, 10055

Panama	10264
Penney	10047, 10156, 10051, 10060, 10178, 10030, 11926, 11919, 11347, 10747, 10309, 10149, 10138, 10135, 10110, 10039, 10032, 10027, 10021, 10019, 10018, 10003, 10002
Petters	11523
Philco	10054, 10463, 10030, 10145, 11661, 10019, 10020, 10028, 10096, 10302, 10786, 11029, 11911
Philips	11454, 10054, 10037, 10556, 10690, 11154, 11483, 11961, 10012, 10013
Phonola	10012, 10013
Protech	10264
Pye	10012
Pilot	10030, 10019, 10039
Pioneer	10166, 10038, 10172, 10679, 10866, 11260, 11398
Planar	11496
Polaroid	10765, 10865, 11262, 11276, 11314, 11316, 11326, 11327, 11328, 11341, 11498, 11523, 11991, 11992
Portland	10092, 10019, 10039
Prima	10761, 10783, 10815, 10817, 11933
Princeton	10700, 10717
Prism	10051
Proscan	11447, 10047, 10747, 11347, 11922
Proton	10178, 10003, 10031, 10052, 10466
Protron	11320, 11323
Proview	10835, 11401, 11498
Pulsar	10017, 10019
Quasar	10250, 10051, 10055, 10165, 10219, 10650, 11919
Quelle	10010, 10070, 10535
RadioShack	10047, 10154, 10180, 10178, 10030, 10019, 10032, 10039, 10056, 10165, 10409, 10747, 11904

RCA	11447, 10047, 10060, 12002, 11958, 11953, 11948, 11922, 11919, 11917, 11547, 11347, 11247, 11147, 11047, 10747, 10679, 10618, 10278, 10174, 10135, 10090, 10038, 10029, 10019, 10018
Realistic	10154, 10180, 10178, 10030, 10019, 10032, 10039, 10056, 10165
Radiola	10012
RBM	10070
Rex	10264
Roadstar	10264
Rhapsody	10183, 10185, 10216
Runco	10017, 10030, 10251, 10497, 10603, 11292, 11397, 11398, 11628, 11629, 11638, 11639, 11679
Sampo	10030, 10032, 10039, 10052, 10100, 10110, 10762, 11755
Samsung	10060, 10812, 10702, 10178, 10030, 11959, 11903, 11575, 11395, 11312, 11249, 11060, 10814, 10766, 10618, 10482, 10427, 10408, 10329, 10056, 10037, 10032, 10019, 10264
Samsux	10039
Sansei	10451
Sansui	10463, 11409, 11904, 11911, 11929, 11935
Sanyo	10154, 10088, 10107, 10146, 10159, 10232, 10484, 10799, 10893, 11142, 10208, 10339
Saisho	10264
SBR	10012, 10013
Schneider	10013
Sceptre	10878, 11217, 11360, 11599
Scimitsu	10019
Scotch	10178
Scott	10236, 10180, 10178, 10019, 10179, 10309
Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904, 11007, 10747, 10281, 10179, 10168, 10159, 10149, 10148, 10146, 10056, 10015
Semivox	10180
Semp	10156, 11356
SEG	10264

SEI	10010
Sharp	10093, 10039, 10153, 10157, 10165, 10220, 10281, 10386, 10398, 10491, 10688, 10689, 10818, 10851, 11602, 11917, 11393
Sheng Chia	10093
Sherwood	11399
Shogun	10019
Signature	10016
Signet	11262
Siemens	10535
Sinudyne	10010
SIM2 Multimedia	11297
Simpson	10186, 10187
SKY	10037
Sony	11100, 10000, 10011, 10080, 10111, 10273, 10353, 10505, 10810, 10834, 11317, 11685, 11904, 11925, 10010
Soundesign	10180, 10178, 10179, 10186
Sova	11320, 11952
Soyo	11520
Sonitron	10208
Sonolor	10208
Space Tek	11696
Spectricon	10003, 10137
Spectroniq	11498
Squareview	10171
SSS	10180, 10019
Starlite	10180
Studio Experience	10843
Superscan	10093, 10864
Supre-Macy	10046
Supreme	10000
SVA	10748, 10587, 10768, 10865, 10870, 10871, 10872
Sylvania	10054, 10030, 10171, 10020, 10028, 10065, 10096, 10381, 11271, 11314, 11394, 11931, 11944, 11963
Symphonic	10180, 10171, 11904, 11944
Syntax	11144, 11240, 11331
Tandy	10093
Tatung	10003, 10049, 10055, 10396, 11101, 11285, 11286, 11287, 11288, 11361, 11756
Teac	10264, 10412



Telefunken	10005
Technics	10250, 10051
Technol Ace	10179
Technovox	10007
Techview	10847, 12004
Techwood	10051, 10003, 10056
Teco	11040
Teknika	10054, 10180, 10150, 10060, 10092, 10016, 10019, 10039, 10056, 10175, 10179, 10186, 10312, 10322
Telefunken	10702, 10056, 10074
Tera	10031
Thomas	11904
Thomson	10209, 10210
TMK	10178, 10056, 10177
TNCi	10017
Tophouse	10180
Toshiba	10154, 11256, 10156, 10093, 11265, 10060, 11356, 11369, 11524, 11635, 11656, 11704, 11918, 11935, 11936, 11945, 12006, 11343, 11325, 11306, 11164, 11156, 10845, 10832, 10822, 10650, 10149, 10036, 10070
Tosonic	10185
Totevision	10039
Trical	10157
TVS	10463
Ultra	10391, 11323
Universal	10027
Universum	10105, 10264, 10535, 11337
US Logic	11286, 11303
Vector Research	10030
VEOS	11007
Victor	10053
Video Concepts	10098
Vidikron	10054, 10242, 11292, 11302, 11397, 11398, 11628, 11629, 11633
Vidtech	10178, 10019, 10036
Viewsonic	10797, 10857, 10864, 10885, 11330, 11342, 11578, 11627, 11640, 11755
Viking	10046, 10312
Viore	11207
Visart	11336

Vizio	10864, 10885, 11499, 11756, 11758
Wards	10054, 10178, 10030, 11156, 10866, 10202, 10179, 10174, 10165, 10111, 10096, 10080, 10056, 10029, 10028, 10027, 10021, 10020, 10019, 10016
Waycon	10156
Westinghouse	10885, 10889, 10890, 11282, 11577
White Westinghouse	10463, 10623
WinBook	11381
Wyse	11365
Yamaha	10030, 10019, 10769, 10797, 10833, 10839, 11526
Yoko	10264
Zenith	10017, 10463, 11265, 10178, 10092, 10016, 11904, 11911, 11929
Zonda	10003, 10698, 10779

#### Setup Codes for TVs (DLP)

Hewlett Packard	11494
HP	11494
LG	11265
Magnavox	11525
Mitsubishi	11250
Optoma	10887
Panasonic	11291
RCA	11447
Samsung	10812, 11060, 11312
SVA	10872
Toshiba	11265, 11306
Vizio	11499

#### Setup Codes for TVs (Plasma)

Akai	10812, 11207, 11675, 11688, 11690
Albatron	10843
BenQ	11032
Byd:sign	11311
Daewoo	10451, 10661
Dell	11264
Delta	11369
Electrograph	11623, 11755
ESA	10812
Fujitsu	10186, 10683, 10809, 10853
Funai	11271

Gateway	11001, 11002, 11003, 11004, 11755, 11756
H & B	11366
Helios	10865
Hewlett Packard	11089, 11502
Hitachi	10797
HP	11089, 11502
iLo	11684
Insignia	11564
JVC	10731
LG	10178, 10056, 10829, 10856, 11423, 11758
Marantz	10704, 11398
Maxent	11755, 11757
Mitsubishi	10836
Monivision	10843
Motorola	10835
Moxell	10835
Nakamichi	11493
NEC	11398, 11704
NetTV	11755
Norcent	10824, 11089, 11590
Norwood Micro	11303
Panasonic	10250, 10650, 11480
Philips	10690
Pioneer	10679, 11260, 11398
Polaroid	10865, 11276, 11327, 11328
Proview	10835
Runco	11398, 11679
Sampo	11755
Samsung	10812, 11312
Sharp	10093
Sony	10000, 10810, 11317
Studio Experience	10843
SVA	10865
Sylvania	11271, 11394
Tatung	11101, 11285, 11287, 11288, 11756
Toshiba	10650, 11704
US Logic	11303
Viewsonic	10797, 11755
Viore	11207
Vizio	11756, 11758
Yamaha	10797
Zenith	10178

### Setup Codes for TV/DVD Combos

#### Controlled by the TV

Accurian	11803
Advent	11933
Akai	11675, 11935
Apex Digital	11943
Audiovox	11937, 11951, 11952
Axion	11937
Boigle	11696
Broksonic	11935
Cinego	11986
Citizen	11935
Diamond Vision	11997
Emerson	11394, 11963
ESA	11963
Funai	11963
Hitachi	11960
iLo	11990
Initial	11990
Insignia	11963, 12002
Jensen	11933
KLH	11962
Konka	11939, 11940
LG	11993
Magnavox	11963, 11990
Mintek	11990
Panasonic	11941
Philips	11961
Polaroid	11991
Prima	11933
RCA	11948, 11958, 12002
Samsung	11903
Sansui	11935
Sova	11952
Sylvania	11394, 11963
Techview	12004
Toshiba	11635, 11935, 12006

### Setup Codes for TV/DVD Combos

#### Controlled by the DVD

Advent	21016
Akai	20695
Apex Digital	20830
Audiovox	21071, 21121, 21122
Axion	21071
Broksonic	20695
Cinego	21399

Citizen	20695
Diamond Vision	21610
Emerson	20675, 21268
ESA	21268
Funai	21268
Go Vision	21071
Hitachi	21247
iLo	21472
Initial	21472
Insignia	21013, 21268
Jensen	21016
KLH	21261
Konka	20719, 20720
LG	21526
Magnavox	21268, 21472
Mintek	21472
Naxa	21473
Panasonic	21490
Philips	20854, 21260
Polaroid	21480
Prima	21016
RCA	21013, 21022, 21193
Samsung	20899
Sansui	20695
Sova	21122
Sylvania	20675, 21268
Toshiba	20695

### Setup Codes for TV/VCR Combos

#### Controlled by the TV

America Action	10180
Audiovox	10180
Broksonic	11911, 11929
Citizen	11928
Curtis Mathes	11919
Daewoo	11928
Emerson	10236, 11911, 11928, 11929
Funai	11904
GE	11917, 11919, 11922
GoldStar	11926
Gradiente	11804
Harley Davidson	11904
Hitachi	11904
JVC	11923
Lloyd's	11904
Magnasonic	11928
Magnavox	11904, 11931

Memorex	11926
Mitsubishi	11917
Orion	11911, 11929
Panasonic	11919
Penney	11919, 11926
Quasar	11919
RadioShack	11904
RCA	11917, 11919, 11922
Samsung	11959
Sansui	11904, 11911, 11929
Sears	11904, 11926
Sony	11904, 11925
Sylvania	11931
Symphonic	11904
Thomas	11904
Toshiba	11918, 11936
Zenith	11904, 11911, 11929

#### Setup Codes for TV/VCR Combos

##### Controlled by the VCR

America Action	20278
Audiovox	20278
Broksonic	20002, 20479, 21479
Citizen	21278
Colt	20072
Curtis Mathes	21035
Daewoo	20637, 21278
Emerson	20002, 20479, 20593, 21278, 21479
Funai	20000
GE	20240, 20807, 21035, 21060
GoldStar	21237
Gradiente	21137
Harley Davidson	20000
Hitachi	20000
LG	21037
Lloyd's	20000
Magnasonic	20593, 21278
Magnavox	20000, 20593, 21781
Magnin	20240
Memorex	20162, 21037, 21162, 21237, 21262
MGA	20240
Mitsubishi	20807
Optimus	20162, 20593, 21162, 21262
Orion	20002, 20479, 21479
Panasonic	20162, 21035, 21162, 21262

Penney	20240, 21035, 21237
Philco	20479
Quasar	20162, 21035, 21162
RadioShack	20000, 21037
RCA	20240, 20807, 21035, 21060
Samsung	20432, 21014
Sansui	20000, 20479, 21479
Sanyo	20240
Sears	20000, 21237
Sony	20000, 21232
Sylvania	21781
Symphonic	20000, 20593
Thomas	20000
Toshiba	20845, 21145
White Westinghouse	20637
Zenith	20000, 20479, 20637, 21479

#### Setup Codes for VCRs

ABS	21972
Admiral	20048, 20209
Adventura	20000
Aiko	20278
Aiwa	20037, 20000, 20124, 20307
Akai	20041, 20061, 20106
Alienware	21972
Allegro	21137
America Action	20278
American High	20035
Asha	20240
Audiovox	20037, 20278
Bang & Olufsen	21697
Beaumark	20240
Bell & Howell	20104
Blaupunkt	20006, 20003
Broksonic	20184, 20121, 20209, 20002, 20295, 20348, 20479, 21479
Calix	20037
Canon	20035, 20102
Capehart	20020
Carver	20081
CCE	20072, 20278
Cineral	20278
CineVision	21137
Citizen	20037, 20278, 21278
Colt	20072
Craig	20037, 20047, 20240, 20072, 20271

Curtis Mathes	20060, 20035, 20162, 20041, 20760, 21035
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20278, 20020, 20561, 20637, 21137, 21278
Daytron	20020
Dell	21972
Denon	20042
DirecTV	20739, 21989
Durabrand	20039, 20038
Dynatech	20000
Electrohome	20037
Electroponic	20037
Emerex	20032
Emerson	20037, 20184, 20000, 20121, 20043, 20209, 20002, 20278, 20068, 20061, 20036, 20208, 20212, 20295, 20479, 20561, 20593, 20637, 21278, 21479, 21593
ESA	21137
Fisher	20047, 20104, 20054, 20066
Fuji	20035, 20033
Funai	20000, 20593, 21593
Garrard	20000
Gateway	21972
GE	20060, 20035, 20240, 20065, 20202, 20760, 20761, 20807, 21035, 21060
Go Video	20432, 20526, 20614, 20643, 21137, 21873
GoldStar	20037, 20038, 21137, 21237
Gradiente	20000, 20008, 21137
Grundig	20195
Harley Davidson	20000
Harman/Kardon	20081, 20038, 20075
Harwood	20072, 20068
Headquarter	20046
Hewlett Packard	21972
HI-Q	20047
Hitachi	20000, 20042, 20041, 20065, 20089, 20105, 20166
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
Humax	20739, 21797, 21988
Hush	21972



iBUYPOWER	21972
Jensen	20041
JVC	20067, 20041, 20008, 20206
KEC	20037, 20278
Kenwood	20067, 20041, 20038
Kioto	20348
KLH	20072
Kodak	20035, 20037
LG	20037, 21037, 21137, 21786
Linksys	21972
Lloyd's	20000, 20208
Logik	20072
LXI	20037
Magnasonic	20593, 21278
Magnavox	20035, 20039, 20081, 20000, 20149, 20110, 20563, 20593, 21593, 21781
Magnin	20240
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162, 21162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 20046, 20307, 20348, 20479, 21037, 21162, 21237, 21262
MGA	20240, 20043, 20061
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042, 20105
Mitsubishi	20067, 20043, 20061, 20075, 20173, 20807, 21795
Motorola	20035, 20048
MTC	20240, 20000
Multitech	20000, 20072
NEC	20104, 20067, 20041, 20038, 20040
Nikko	20037
Nikon	20034
Niveus Media	21972
Noblex	20240
Northgate	21972
Olympus	20035

Optimus	21062, 20162, 20037, 20048, 20104, 20432, 20593, 21048, 21162, 21262
Optonica	20062
Orion	20184, 20209, 20002, 20295, 20479, 21479
Panasonic	21062, 20035, 20162, 20077, 20102, 20225, 20614, 20616, 21035, 21162, 21262, 21807
Penney	20035, 20037, 20240, 20042, 20038, 20040, 20054, 21035, 21237
Pentax	20042, 20065, 20105
Philco	20035, 20209, 20479, 20561
Phillips	20035, 20081, 20062, 20110, 20618, 20739, 21081, 21181, 21818
Pilot	20037
Pioneer	20067, 21337, 21803
Polk Audio	20081
Portland	20020
Presidian	21593
Profitronic	20240
Proscan	20060, 20202, 20760, 20761, 21060
Protec	20072
Pulsar	20039
Quarter	20046
Quartz	20046
Quasar	20035, 20162, 20077, 21035, 21162
RadioShack	20000, 21037
Radix	20037
Randex	20037
RCA	20060, 20240, 20042, 20149, 20065, 20077, 20105, 20106, 20202, 20760, 20761, 20807, 20880, 21035, 21060, 21989
Realistic	20035, 20037, 20048, 20047, 20000, 20104, 20046, 20062, 20066
ReplayTV	20614, 20616
Ricavision	21972
Ricoh	20034
Rio	21137
Runco	20039
Salora	20075

Samsung	20240, 20045, 20432, 20739, 21014
Samtron	20643
Sanky	20048, 20039
Sansui	20000, 20067, 20209, 20041, 20271, 20479, 21479
Sanyo	20047, 20240, 20104, 20046
Scott	20184, 20045, 20121, 20043, 20210, 20212
Sears	20035, 20037, 20047, 20000, 20042, 20104, 20046, 20054, 20066, 20105, 21237
Semp	20045
Sharp	20048, 20062, 20807, 20848, 21875
Shintom	20072
Shogun	20240
Singer	20072
SKY	22032
Sky Brazil	22032
Sonic Blue	20614, 20616, 21137
Sony	20035, 20032, 20033, 20000, 20034, 20636, 21032, 21232, 21886, 21972
Stack 9	21972
STS	20042
Sylvania	20035, 20081, 20000, 20043, 20110, 20593, 21593, 21781
Symphonic	20000, 20593, 21593
Systemax	21972
Tagar Systems	21972
Tatung	20041
Teac	20000, 20041
Technics	20035, 20162
Teknika	20035, 20037, 20000
Thomas	20000
Tivo	20618, 20636, 20739, 21337, 21996
TMK	20240, 20036, 20208
Toshiba	20045, 20043, 20066, 20210, 20212, 20366, 20845, 21008, 21145, 21972, 21988, 21996
Totevision	20037, 20240
Touch	21972
UEC	22032
UltimateTV	21989
Unitech	20240
Vector	20045

Vector Research	20038, 20040
Video Concepts	20045, 20040, 20061
Videomagic	20037
Videosonic	20240
Viewsonic	21972
Villain	20000
Voodoo	21972
Wards	20060, 20035, 20048, 20047, 20081, 20240, 20000, 20042, 20072, 20149, 20062, 20212, 20760
White Westinghouse	20209, 20072, 20637
XR-1000	20035, 20000, 20072
Yamaha	20038
Zenith	20039, 20033, 20000, 20209, 20034, 20479, 20637, 21137, 21139, 21479
ZT Group	21972

#### Setup Codes for DVD Players

Accurian	21072, 21416
Adcom	21094
Advent	21016
Aiwa	20641
Akai	20695, 20770, 20899, 21089
Alco	20790
Allegro	20869
Amoisonic	20764
Amphion Media Works	20872, 21245
AMW	20872, 21245
Apex Digital	20672, 20717, 20755, 20794, 20795, 20796, 20797, 20830, 21004, 21020, 21056, 21061, 21100
Arrgo	21023
Aspire Digital	21168, 21407
Astar	21489, 21678, 21679
Audiologic	20736
Audiovox	20790, 21041, 21071, 21072, 21121, 21122
Axion	21071, 21072
B & K	20655, 20662
Bang & Olufsen	21696
BBK	21224
Bel Canto Design	21571
Blaupunkt	20717
Blue Parade	20571
Bose	22023

Broksonic	20695, 20868, 21419
Buffalo	21882
Cambridge Soundworks	20690
Cary Audio Design	21477
Casio	20512
CAVS	21057
Centrios	21577
Cinea	20831
Cinego	21399
Cinematrix	21052
CineVision	20876, 20833, 20869, 21483
Citizen	20695, 21277
Ciatronic	20788
Coby	20778, 20852, 21086, 21107, 21165, 21177, 21351
Craig	20831
Curtis Mathes	21087
CyberHome	20816, 20874, 21023, 21024, 21117, 21129, 21502, 21537
D-Link	21881
Daewoo	20784, 20705, 20770, 20833, 20869, 21169, 21172, 21234, 21242, 21441, 21443
Denon	20490, 20634
Desay	21407, 21455
Diamond Vision	21316, 21609, 21610
DigitalMax	21738
Digix Media	21272
Disney	20675, 21270
Dual	21068, 21085
Durabrand	21127
DVD2000	20521
Emerson	20591, 20675, 20821, 21268
Encore	21374
Enterprise	20591
ESA	20821, 21268, 21443
Fisher	20670, 21919
Funai	20675, 21268, 21334
Gateway	21073, 21077, 21158, 21194
GE	20522, 20815, 20717
Genica	20750
Go Video	20744, 20715, 20741, 20783, 20833, 20869, 21044, 21075, 21099, 21144, 21148, 21158, 21304, 21443, 21483, 21730
Go Vision	21071, 21072
GoldStar	20741
GPX	20699, 20769

Gradiente	20651
Greenhill	20717
Grundig	20705
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 20695, 21247, 21919
Hiteker	20672
Humax	21500, 21588
iLo	21348, 21472
Initial	20717, 21472
Innovative Technology	21542
Insignia	21013, 21268
Integra	20627
InterVideo	21124
IRT	20783
Jaton	21078
JBL	20702
Jensen	21016
JSI	21423
JVC	20558, 20623, 20867, 21164, 21275, 21550, 21602, 21863
jWin	21049, 21051
Kawasaki	20790
Kenwood	20490, 20534, 20682, 20737
KLH	20717, 20790, 21020, 21149, 21261
Konka	20711, 20719, 20720, 20721
Koss	20651, 20896, 21423
Kreisen	21421
Krell	21498
Lafayette	21369
Landel	20826
Lasonic	20798, 21173
Lenoxx	21076, 21127
Lexicon	20671
LG	20591, 20741, 20801, 20869, 21526
LiteOn	21058, 21158, 21416, 21440, 21656, 21738
Loewe	20511, 20885
Magnavox	20503, 20539, 20646, 20675, 20821, 21268, 21472, 21506
Malata	20782, 21159
Marantz	20539
McIntosh	21273, 21373
Memorex	20695, 20831, 21270
Meridian	21497
Microsoft	20522, 21708

Mintek	20839, 20717, 21472
Mitsubishi	21521, 20521
MixSonic	21130
Momitsu	21082
NAD	20692, 20741
Nakamichi	21222
Naxa	21473
NEC	20785
Nesa	20717, 21603
NeuNeo	21454
Next Base	20826
NexxTech	21402
Norcent	21003, 20872, 21107, 21265, 21457
Nova	21517, 21518, 21519
Onkyo	20503, 20627, 20792, 21417, 21418, 21612
Oppo	20575, 21224, 21525
OptoMedia Electronics	20896
Oritron	20651
Panasonic	20490, 20632, 20703, 21362, 21462, 21490, 21762
Philco	20690, 20733, 20790, 20862, 21855, 22000
Philips	20503, 20539, 20646, 20671, 20675, 20854, 21260, 21267, 21340, 21354
Pioneer	20525, 20571, 20142, 20631, 20632, 21460, 21512, 22052
Polaroid	21020, 21061, 21086, 21245, 21316, 21478, 21480, 21482
Polk Audio	20539
Portland	20770
Presidian	20675, 21072, 21738
Prima	21016
Primare	21467
Princeton	20674
Proscan	20522
ProVision	20778
Qwestar	20651
RCA	20522, 20571, 20717, 20790, 20822, 21013, 21022, 21132, 21193, 21769
Recco	20698
Rio	20869, 22002
RJTech	21360
Rotel	20623, 20865, 21178
Rowa	20823

Sampo	20698, 20752, 21501
Samsung	20490, 20573, 20744, 20199, 20820, 20899, 21044, 21075
Sansui	20695
Sanyo	20670, 20695, 20873, 21919
Seeltech	21338
Semp	20503
Sensory Science	21158
Sharp	20630, 20675, 20752, 21256
Sharper Image	21117
Sherwood	20633, 20770, 21043, 21077, 21889
Shinsonic	20533, 20839
Sigma Designs	20674
SilverCrest	21368
Sonic Blue	20869, 21099, 22002
Sony	20533, 21533, 20864, 21033, 21070, 21431, 21432, 21433, 21548, 21824, 21892, 22020, 22043
Sound Mobile	21298
Sova	21122
Sungale	21074, 21342, 21532
Superscan	20821
SVA	20860, 21105
Sylvania	20675, 20821, 21268
Symphonic	20675, 20821
TAG McLaren	20894
Teac	20758, 20790, 20809
Technics	20490, 20703
Technosonic	20730
Techwood	20692
Terapin	21031, 21053, 21166
Theta Digital	20571
Tivo	21503, 21512
Toshiba	20503, 20695, 21045, 21154, 21503, 21510, 21515, 21588, 21769, 21854
Tredex	20799, 20800, 20803, 20804
TYT	20705
Urban Concepts	20503
US Logic	20839
Valor	21298
Venturer	20790
Vialta	21509
Viewmage	21374
Vizio	21064, 21226
Vocopro	21027, 21360



Wintel	21131
Xbox	20522, 21708
Xwave	21001
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20741, 20869
Zoece	21265

#### Setup Codes for PVRs

ABS	21972
Alienware	21972
CyberPower	21972
Dell	21972
DirecTV	20739, 21989
Gateway	21972
Go Video	20614, 21873
Hewlett Packard	21972
Howard Computers	21972
HP	21972
Hughes Network Systems	20739
Humax	20739, 21797, 21988
Hush	21972
iBUYPOWER	21972
LG	21786
Linksys	21972
Media Center PC	21972
Microsoft	21972
Mind	21972
Mitsubishi	21795
Niveus Media	21972
Northgate	21972
Panasonic	20614, 20616, 21807
Philips	20618, 20739, 21818
Pioneer	21337, 21803
RCA	20880, 21989
ReplayTV	20614, 20616
Samsung	20739
Sharp	21875
SKY	22032
Sonic Blue	20614, 20616
Sony	20636, 21886, 21972
Stack 9	21972
Systemax	21972
Tagar Systems	21972
Tivo	20618, 20636, 20739, 21337
Toshiba	21008, 21972, 21988, 21996
Touch	21972

UEC	22032
UltimateTV	21989
Viewsonic	21972
Voodoo	21972
ZT Group	21972

#### Setup Codes for Audio Receivers

ADC	30531
Aiwa	31405, 30158, 30189, 30121, 30405, 31089, 31243, 31321, 31347, 31388, 31641
Akai	31512
Alco	31390
Amphion Media Works	31563, 31615
AMW	31563, 31615
Anam	31609, 31074
Apex Digital	31257, 31430, 31774
Arcam	31120, 31212, 31978, 32022
Audiophase	31387
Audiotronic	31189
Audiovox	31390, 31627
B & K	30701, 30820, 30840
Bang & Olufsen	30799, 31196
BK	30702
Bose	31229, 30639, 31253, 31629, 31841, 31933
Brix	31602
Cambridge Soundworks	31370, 31477
Capetronic	30531
Carver	31189, 30189, 30042, 31089
Casio	30195
Clarinet	30195
Classic	31352
Coby	31263, 31389
Criterion	31420
Curtis	30797
Curtis Mathes	30080
Daewoo	31178, 31250
Dell	31383
Delphi	31414
Denon	31360, 30004, 31104, 31142, 31311, 31434
Emerson	30255
Fisher	30042, 31801
Garrard	30281, 30286, 30463, 30744
Gateway	31517
GE	31379

Glory Horse	31263
Go Video	31532
GPX	30744, 31299
Harman/Kardon	30110, 30189, 30891, 31304, 31306
Hewlett Packard	31181
Hitachi	31273, 31801
Hitech	30744
Initial	31426
Insignia	31030, 31893
Integra	30135, 31298, 31320
JBL	30110, 30281, 31306
JVC	30074, 30286, 30464, 31199, 31263, 31282, 31374, 31495, 31560, 31643, 31811, 31871
Kenwood	31313, 31570, 31569, 30027, 31916, 31670, 31262, 31261, 31052, 31032, 31027, 30569, 30337, 30314, 30313, 30239, 30186, 30077, 30042
Kioto	30797
KLH	31390, 31412, 31428
Koss	30255, 30744, 31366, 31497
Lasonic	31798
Lenoxx	31437
LG	31293, 31524
Linn	30189
Liquid Video	31497
Lloyd's	30195
LXI	30181, 30744
Magnavox	31189, 31269, 30189, 30195, 30391, 30531, 31089, 31514
Marantz	31189, 31269, 30039, 30189, 31089, 31289
MCS	30039, 30346
Mitsubishi	31393
Modulaire	30195
Musicmagic	31089
NAD	30320, 30845
Nakamichi	30097, 30876, 31236, 31555
Norcent	31389
Nova	31389
NTDE Geniesom	30744
Onkyo	30135, 30380, 30842, 31298, 31320, 31531, 31805

Optimus	31023, 30042, 30080, 30181, 30186, 30286, 30531, 30670, 30738, 30744, 30797, 30801, 31074
Orient Power	30744
Oritron	31366, 31497
Panasonic	31308, 31518, 30039, 30309, 30367, 30763, 31275, 31288, 31316, 31350, 31363, 31509, 31548, 31633, 31763, 31764
Penney	30195
Philco	31390, 31562, 31838
Philips	31189, 31269, 30189, 30391, 31089, 31120, 31266, 31268, 31283, 31365, 31368
Pioneer	31023, 30014, 30080, 30150, 30244, 30289, 30531, 30630, 31123, 31343, 31384
Polaroid	31508
Polk Audio	30189, 31289, 31414
Proscan	31254
Quasar	30039
RadioShack	30744, 31263
RCA	31023, 31609, 31254, 30054, 30080, 30346, 30530, 30531, 31074, 31123, 31154, 31390, 31511
Realistic	30181, 30195
Recco	30797
Regent	31437
Rio	31383, 31869
Rotel	30793
Saba	31519
Samsung	30286, 31199, 31295, 31500
Sansui	30189, 30193, 30346, 31089
Sanyo	30801, 31251, 31469, 31801
Semivox	30255
Sharp	30186, 31286, 31361, 31386
Sharper Image	30797, 31263, 31410, 31556
Sherwood	30491, 30502, 31077, 31423, 31517, 31653, 31905
Shinsonic	31426
Sirius	31602, 31627, 31811, 31987
Sonic	30281
Sonic Blue	31383, 31532, 31869

Sony	31058, 31441, 31258, 31759, 31622, 30158, 31958, 31858, 31822, 31758, 31658, 30168, 31558, 31547, 31529, 31503, 31458, 31442, 30474, 31406, 31382, 31371, 31367, 31358, 31349, 31131, 31158
Soundesign	30670
Starlight	30797
Stereophonics	31023
Sunfire	31313, 30313, 30314, 31052
Sylvania	30797
Teac	30463, 31074, 31390, 31528
Technics	31308, 31518, 30039, 30309, 30763, 31309
Techwood	30281
Thorens	31189
Toshiba	31788
Venturer	31390
Victor	30074
Wards	30158, 30189, 30014, 30054, 30080
XM	31406, 31414
Yamaha	30176, 30082, 30186, 30376, 31176, 31276, 31331, 31375, 31376, 31476
Yorx	30195
Zenith	30281, 30744, 30857, 31293, 31524

#### Setup Codes for Audio Amplifiers

Accuphase	30382
Acurus	30765
Adcom	30577, 31100
Aiwa	30406
AudioSource	30011
Arcam	30641
Bel Canto Design	31583
Bose	30674
Carver	30269
Classe	31461, 31462
Curtis Mathes	30300
Denon	30160
Durabrand	31561, 31566
Elan	30647
GE	30078
Harman/Kardon	30892

JVC	30331
Kenwood	30356
Left Coast	30892
Lenoxx	31561, 31566
Lexicon	31802
Linn	30269
Luxman	30165
Magnavox	30269
Marantz	30892, 30321, 30269
Mark Levinson	31483
McIntosh	30251
Nakamichi	30321
NEC	30264
Optimus	30395, 30300, 30823
Panasonic	30308, 30521
Parasound	30246
Philips	30892, 30269, 30641
Pioneer	30013, 30300, 30823
Polk Audio	30892, 30269
RCA	30300, 30823
Realistic	30395
Regent	31568
Sansui	30321
Sharp	31432
Shure	30264
Sony	30689, 30220, 30815, 31126
Soundesign	30078, 30211
Technics	30308, 30521
Victor	30331
Wards	30078, 30013, 30211
Xantech	32658, 32659
Yamaha	30354, 30133, 30143, 30504

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- b. The problem with the DIRECTV Universal Remote Control was not caused by abuse, mishandling, alteration, accident, failure to follow operating, maintenance or environmental instructions set forth in this User Guide, or service performed by someone other than DIRECTV.

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (base unit).
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- and (2) this device must accept any interference received, including interference that may cause undesired operation.