



DIRECTV®



DIRECTV®
Universal Remote Control
User Guide

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INTRODUCTION













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

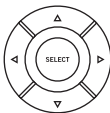
| Press this key... | To... |
|--|---|
|  | Slide the MODE switch to the DIRECTV, AV1, AV2 or TV positions to select the component you want to control. A green LED under each switch position indicates the component being controlled. |
|  | Press TV INPUT to select the available inputs on your TV. NOTE: Additional setup is required to activate the TV INPUT key. (See instructions on page 8.) |
|  | Press FORMAT 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 PWR to turn the selected component on or off. |
|  | Press TV POWER ON/OFF to turn the TV and DIRECTV Receiver on or off. (NOTE: These keys are only active after the remote has been setup for your TV. See page 7.) |
|  | 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 GUIDE to display the DIRECTV program Guide. |
|  | Press ACTIVE to access special features, services, DIRECTV NEWS™ and info. |
|  | Press LIST to display your TO DO list of programs. (Not available on all DIRECTV Receivers.) |



Press **EXIT** to exit menu screens and the program Guide and return to live TV.



Press **SELECT** to choose highlighted items in menu screens or the program Guide.



Use the **ARROW** keys to move around in the program Guide and menu screens.



Press **BACK** to return to the previously displayed screen.



Press **MENU** to display the Quick Menu in DIRECTV mode, or other menu for another selected device.



Use **INFO** to display current channel and program information when watching live TV or in the Guide.



Press **YELLOW** in full-screen TV to cycle through alternate audio tracks
 Press **BLUE** in full-screen TV to display the Mini-Guide.
 Press **RED** in the Guide to jump 1.5 hours back.
 Press **GREEN** in the Guide to jump 1.5 hours forward.
 Other functions vary—look for onscreen hints or refer to your DIRECTV Receiver's user guide. (Not available on all DIRECTV Receivers.)



Press **VOL** to raise or lower the sound volume. The volume key is only active when the remote is set up for your TV.



While watching TV, press **CHAN+** (or **CHAN-**) to select the next higher (or lower) channel.

While in the DIRECTV program Guide or menu, press **PAGE+** (or **PAGE-**) to page up (or down) through available channels in the Guide.



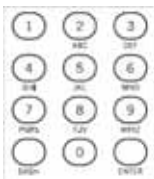
Press **MUTE** to turn the sound off or back on.

Press this key...

To...



Press **PREV** to return to the last channel viewed.

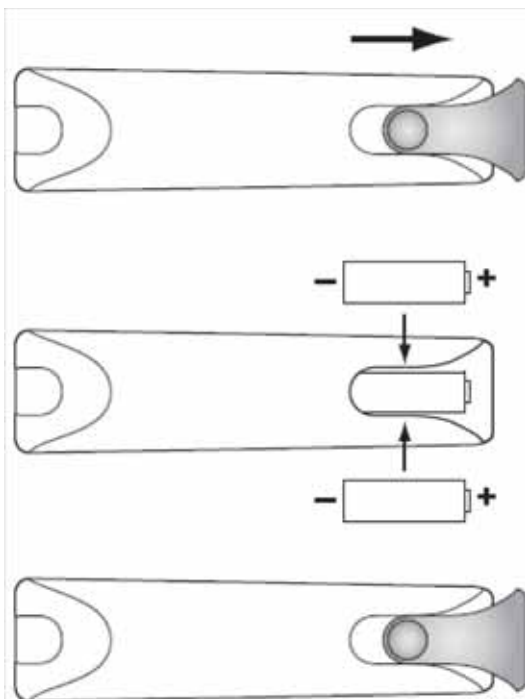


Press the number keys to directly enter a channel number (e.g. **207**) while watching TV or in the Guide.

Press **DASH** to separate main and sub-channel numbers.

Press **ENTER** to activate number entries quickly.

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 is designed to give you access to features and functions found on your original remote control. To use it with your brand of 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 13.)
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 7**, 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 com-

ponent 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 14.)
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.

Deactivate 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 7**, 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 14.)
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.

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, 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 9.
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.

To Lock 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 boxes don't have volume control, so the remote will not allow the user to lock volume to the DIRECTV mode.

RESTORE 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 6).

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 7).

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 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048. (See "Controlling Other Components" on page 8.)

DIRECTV SETUP CODES

Setup Codes for DIRECTV Receivers

DIRECTV all models 00001, 00002

Hughes Network Systems 00749
(most models)

Hughes Network Systems 01749
models GAEB0, GAEB0A,
GCB0, GCEB0A, HBH-SA,
HAH-SA

GE models GRD33G2A and 00566
GRD33G3A, GRD122GW

Philips models DSX5500 00099
and DSX5400

Proscan models PRD8630A 00566
and PRD8650B

RCA models DRD102RW, 00566
DRD203RW, DRD301RA,
DRD302RA, DRD303RA,
DRD403RA, DRD703RA,
DRD502RB, DRD 503RB,
DRD505RB, DRD515RB,
DRD523RB, and
DRD705RB

DRD440RE, DRD460RE, 00392
DRD480RE, DRD430RG,
DRD431RG, DRD450RG,
DRD451RG,
DRD485RG, DRD486RG,
DRD430RGA,
DRD450RGA,
DRD485RGA, DRD435RH,
DRD455RH, and
DRD486RH

Samsung model SIR-S60W 01109

Samsung models SIR-S70, 01108
SIR-S75, SIR-S300W, and
SIR-S310W

Sony models (All models 01639
except TiVo and Ultimate
TV)

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, 300 | 01639 |
| Toshiba models DST-3000, DST-3100, DW65X91 | 01749, 01285 |
| Zenith models DTV1080, HD-SAT520 | 01856 |

Setup Codes for DIRECTV DVRs

| | |
|--|--------------|
| DIRECTV all models | 00001, 00002 |
| HNS models SD-DVR80, SD-DV40, SD-DVR120, HDVR2, GXCEBOT, GXCEBOTD | 01442 |
| Philips models DSR704, DSR708, DSR6000, DSR600R, DRS700/17 | 01142, 01442 |
| RCA models DWD490RE, DWD496RG | 01392 |
| RCA models DVR39, 40, 80, 120 | 01442 |
| Sony model SAT-T60 | 00639 |
| Sony model SAT-W60 | 01640 |
| Samsung models SIR- S4040R, SIR-S4080R, SIR- S4120R | 01442 |

SETUP CODES, OTHER DEVICES

Setup Codes for TVs

| | |
|---------|-------------|
| A-Mark | 10003 |
| Abex | 10032 |
| Admiral | 1093, 10463 |

| | |
|----------------------|---|
| Advent | 10761, 10783, 10815, 10817, 10842 |
| Adventura | 10046 |
| Aiko | 1092 |
| Akai | 10030, 10060, 10672, 10702, 10812 |
| Alaron | 10179 |
| Albatron | 10700, 10843 |
| Ambassador | 10177 |
| America Action | 10180 |
| Ampro | 10751 |
| Anam | 10180 |
| Anam National | 10055 |
| AOC | 10003, 10019, 10030, 10052, 10185 |
| Apex Digital | 10156, 10748, 10765, 10767, 10879 |
| Archer | 10003 |
| Audiovox | 10003, 1092, 10180, 10451, 10623, 10802, 10875, 11284 |
| Aventura | 10171 |
| Belcor | 10019 |
| Bell & Howell | 10016, 10154 |
| BenQ | 11032, 11315 |
| Boxlight | 10893 |
| Bradford | 10180 |
| Brockwood | 10019 |
| Broksonic | 10003, 10180, 10236, 10463 |
| Cadia | 11283 |
| Candle | 10030, 10046, 10056, 10186 |
| Carnivale | 10030 |
| Carver | 10054 |
| CCE | 10217 |
| Celebrity | 10000 |
| Celera | 10765 |
| Changhong | 10765 |
| Citizen | 10030, 10039, 10046, 10056, 10060, 1092, 10186, 10280 |
| Clairtone | 10185 |
| Clarion | 10180 |
| Commercial Solutions | 10047, 11447 |
| Concerto | 10056 |

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|---------------|--|
| Contec | 10157, 10180, 10185 |
| Craig | 10180 |
| Crosley | 10054 |
| Crown | 10039, 10180 |
| Curtis Mathes | 10016, 10030, 10039, 10047, 10054, 10056, 10060, 1093, 1145, 10154, 10166, 10451, 10466, 10702, 11147, 11347 |
| CXC | 10180 |
| Daewoo | 10019, 10039, 1092, 10451, 10623, 10661, 10672, 11661 |
| Daytron | 10019 |
| Dell | 11080, 11178, 11264, 11454 |
| Denon | 1145, 10511 |
| Denstar | 10628 |
| Dumont | 10017, 10019 |
| Durabrand | 10003, 10171, 10178, 10180, 10463, 11034 |
| Dwin | 1093, 10720, 10774 |
| Electroband | 10000, 10185 |
| Electrograph | 11755 |
| Electrohome | 10381 |
| Emerson | 10019, 10038, 10039, 10154, 10171, 10177, 10178, 10179, 10180, 10185, 10236, 10280, 10282, 10451, 10463, 10623 |
| Envision | 10030, 10813 |
| Epson | 10833, 10840 |
| ESA | 10171, 10812 |
| Fisher | 10154, 10159 |
| Fujitsu | 10179, 10186, 10683, 10809, 10853 |
| Funai | 10171, 10179, 10180 |
| Futuretech | 10180 |
| Gateway | 11755, 11756 |
| GE | 10021, 10027, 10047, 10051, 10055, 1135, 10178, 10282, 10451, 11347, 11447 |
| Gibraltar | 10017, 10019, 10030 |
| Go Video | 10886 |
| GoldStar | 10001, 10019, 10030, 10032, 10178 |
| Goodmans | 10360 |

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|-----------------|---|
| Grundig | 10683 |
| Grunpy | 10179, 10180 |
| Haier | 10768, 11034 |
| Hallmark | 10178 |
| Hannspree | 11348, 11351, 11352 |
| Harley Davidson | 10179 |
| Harman/Kardon | 10054 |
| Harvard | 10180 |
| Havermy | 1093 |
| Helios | 10865 |
| Hello Kitty | 10451 |
| Hewlett Packard | 11502 |
| Hisense | 10748 |
| Hitachi | 10016, 10032, 10038, 10056, 1145, 10151, 11145 |
| HP | 11502 |
| Hyundai | 10849 |
| Infinity | 10054 |
| Inteq | 10017 |
| Janeil | 10046 |
| JBL | 10054 |
| JCB | 10000 |
| Jensen | 10761, 10815, 10817 |
| JVC | 10053, 10731, 11253, 11352 |
| Kaypani | 10052 |
| KEC | 10180 |
| Kenwood | 10019, 10030 |
| KLH | 10765, 10767 |
| Kloss | 10024, 10046 |
| Konka | 10628, 10632, 10638, 10703, 10707 |
| KTV | 10030, 10039, 10180, 10185, 10217, 10280 |
| LG | 10178, 10442, 10700, 10856, 11178, 11265 |
| Loewe | 1136 |
| Logik | 10016 |
| Luxman | 10056 |
| LXI | 10047, 10054, 10154, 10156, 10178 |
| Magnavox | 10020, 10024, 10030, 10054, 1096, 10179, 10186, 10187, 10386, 10706, 10802, 11254, 11454 |

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| Majestic | 10016 |
| Marantz | 10030, 10054, 10704, 10855, 11154, 11454 |
| Matsushita | 10250, 10650 |
| Maxent | 11755 |
| Megapower | 10700 |
| Megatron | 10003, 1145, 10178 |
| MEI | 10185 |
| Memorex | 10016, 1150, 10154, 10178, 10179, 10463 |
| MGA | 10019, 10030, 1150, 10178 |
| Midland | 10017, 10032, 10039, 10047, 10051, 1135 |
| Minutz | 10021 |
| Mitsubishi | 10019, 1093, 1150, 10178, 10836, 10868, 11250 |
| Monivision | 10700, 10843 |
| Motorola | 10055, 1093 |
| MTC | 10019, 10030, 10056, 10060, 10185 |
| Multitech | 10180, 10217 |
| NAD | 10156, 10178, 10866 |
| NEC | 10019, 10030, 10056, 10497, 10882, 11704 |
| NetTV | 11755 |
| Nikko | 10030, 1092, 10178 |
| Norcent | 10748, 10824 |
| Noshi | 10018 |
| NTC | 1092 |
| Olevia | 11331 |
| Onwa | 10180 |
| Optimus | 10154, 10166, 10250, 10650 |
| Optoma | 10887, 11348 |
| Optonica | 1093, 10165 |
| Orion | 10179, 10236, 10463, 11463 |
| Panasonic | 10051, 10055, 10250, 10650, 11410 |
| Penney | 10003, 10018, 10019, 10021, 10027, 10030, 10032, 10039, 10047, 10051, 10060, 1135, 10156, 10178, 11347 |
| Philco | 10019, 10020, 10030, 10054, 1096 |
| Philips | 10054, 10690, 11154, 11454 |

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|------------|--|
| Pilot | 10019, 10030, 10039 |
| Pioneer | 10038, 10166, 10679, 10866 |
| Polaroid | 10765, 10865, 11276, 11314, 11316, 11326, 11327, 11328 |
| Portland | 10019, 10039, 1092 |
| Prima | 10761, 10783, 10815, 10817 |
| Princeton | 10700, 10717 |
| Prism | 10051 |
| Proscan | 10047, 10466, 11347, 11447 |
| Proton | 10003, 10052, 10178, 10466 |
| Pulsar | 10017, 10019 |
| Quasar | 10051, 10055, 10165, 10250, 10650 |
| RadioShack | 10019, 10030, 10032, 10039, 10047, 10056, 10154, 10165, 10178, 10180 |
| RCA | 10018, 10019, 10038, 10047, 1090, 1135, 10679, 11047, 11147, 11247, 11347, 11447, 11547 |
| Realistic | 10019, 10030, 10032, 10039, 10056, 10154, 10165, 10178, 10180 |
| Rhapsody | 10185 |
| Runco | 10017, 10030, 10497, 10603 |
| Sampo | 10030, 10032, 10039, 10052, 11755 |
| Samsung | 10019, 10030, 10032, 10056, 10060, 10178, 10217, 10587, 10702, 10766, 10812, 10814, 11060, 11312 |
| Samsux | 10039 |
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| Sanyo | 10088, 1146, 10154, 10159, 10799, 10893 |
| Sceptre | 11360 |
| Scimitsu | 10019 |
| Scotch | 10178 |
| Scott | 10019, 10178, 10179, 10180, 10236 |
| Sears | 10047, 10054, 10056, 1146, 10154, 10156, 10159, 10171, 10178, 10179 |
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| Shogun | 10019 |
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| Soundesign | 10178, 10179, 10180, 10186 |
| Spectricon | 10003 |
| Squareview | 10171 |
| SSS | 10019, 10180 |
| Starlite | 10180 |
| Studio Experience | 10843 |
| Superscan | 1093, 10864 |
| Supre-Macy | 10046 |
| Supreme | 10000 |
| SVA | 10587, 10748, 10768, 10865, 10870, 10871, 10872 |
| Sylvania | 10020, 10030, 10054, 1096, 10171, 10381 |
| Symphonic | 10171, 10180 |
| Syntax | 11331 |
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| Tatung | 10003, 10055, 11285, 11756 |
| Technics | 10051, 10250 |
| Technol Ace | 10179 |
| Techview | 10847 |
| Techwood | 10003, 10051, 10056 |
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| Telefunken | 10056, 10702 |
| TMK | 10056, 10177, 10178 |
| TNCi | 10017 |
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| Universal | 10027 |
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| Viewsonic | 10857, 10864, 10885, 11330, 11342, 11755 |
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| Wards | 10016, 10019, 10020, 10021, 10027, 10030, 10054, 10056, 10080, 1096, 1111, 10165, 10178, 10179, 10866, 11156 |
| Waycon | 10156 |
| Westinghouse | 10000, 10451, 10885, 10889, 11282 |
| White Westinghouse | 10463, 10623 |
| Yamaha | 10019, 10030, 10769, 10833, 10839 |
| Zenith | 10016, 10017, 1092, 10178, 10463, 11145, 11265 |
| Zonda | 10003 |
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| ABS | 21972 |
| Admiral | 20048, 20209, 20479 |
| Adventura | 20000 |
| Aiko | 20278 |
| Aiwa | 20000, 20037, 20124, 20307 |
| Akai | 20041, 20061, 20106, 20175 |
| Alienware | 21972 |
| America Action | 20278 |
| American High | 20035 |
| Asha | 20240 |
| Audiovox | 20037, 20278 |
| Beaumark | 20240 |
| Bell & Howell | 20104 |
| Broksonic | 20002, 20121, 20184, 20209, 20479, 21479 |
| Calix | 20037 |
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| Citizen | 20037, 20278, 21278 |
| Colt | 20072 |
| Craig | 20037, 20047, 20072, 20240 |
| Curtis Mathes | 20035, 20041, 20060, 20162, 21035 |
| Cybernex | 20240 |
| CyberPower | 21972 |
| Daewoo | 20045, 20278, 20561, 21278 |
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| Denon | 20042 |
| DirecTV | 20739 |
| Durabrand | 20038, 20039 |
| Dynatech | 20000 |
| Electrohome | 20037, 20043 |
| Electroponic | 20037 |
| Emerex | 20032 |
| Emerson | 20000, 20002, 20037, 20043, 20061, 20121, 20184, 20209, 20212, 20278, 20479, 20561, 20593, 21278, 21479, 21593 |
| Fisher | 20047, 20104 |
| Fuji | 20033, 20035 |
| Funai | 20000, 20593, 21593 |
| Garrard | 20000 |
| Gateway | 21972 |
| GE | 20035, 20060, 20065, 20202, 20240, 20761, 20807, 21035, 21060 |
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| Gradiente | 20000 |
| Harley Davidson | 20000 |
| Harman/Kardon | 20038, 20075, 20081 |
| Harwood | 20072 |
| Headquarter | 20046 |
| Hewlett Packard | 21972 |
| HI-Q | 20047 |
| Hitachi | 20000, 20041, 20042, 20065, 20089, 20105 |
| Howard Computers | 21972 |
| HP | 21972 |
| Hughes Network Systems | 20042, 20739 |

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| Hush | 21972 |
| iBUYPOWER | 21972 |
| Jensen | 20041 |
| JVC | 20008, 20041, 20067 |
| KEC | 20037, 20278 |
| Kenwood | 20038, 20041, 20067 |
| KLH | 20072 |
| Kodak | 20035, 20037 |
| LG | 21037 |
| Linksys | 21972 |
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| Logik | 20072 |
| LXI | 20037 |
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| Magnavox | 20000, 20035, 20039, 20081, 20149, 20563, 20593, 21781 |
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| Matsushita | 20035, 20162 |
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| MEI | 20035 |
| Memorex | 20000, 20035, 20037, 20039, 20046, 20047, 20048, 20104, 20162, 20209, 20240, 20307, 20479, 21037, 21237 |
| MGA | 20043, 20061, 20240 |
| MGN Technology | 20240 |
| Microsoft | 21972 |
| Mind | 21972 |
| Minolta | 20042, 20105 |
| Mitsubishi | 20043, 20061, 20067, 20075, 20173, 20807 |
| Motorola | 20035, 20048 |
| MTC | 20000, 20240 |
| Multitech | 20000, 20072 |
| NEC | 20038, 20040, 20041, 20067, 20104 |
| Nikko | 20037 |
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| Olympus | 20035, 20226 |
| Onkyo | 20222 |
| Optimus | 20037, 20048, 20104, 20162, 20432, 20593, 21048, 21062 |
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| Pentax | 20042, 20065, 20105 |
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| Philips | 20035, 20081, 20618, 20739, 21081, 21181 |
| Pilot | 20037 |
| Pioneer | 20067 |
| Polk Audio | 20081 |
| Presidian | 21593 |
| Profitronic | 20240 |
| Proscan | 20060, 20202, 20761, 21060 |
| Protec | 20072 |
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| Quarter | 20046 |
| Quartz | 20046 |
| Quasar | 20035, 20077, 20162, 21035 |
| RadioShack | 20000, 21037 |
| Radix | 20037 |
| Randex | 20037 |
| RCA | 20042, 20060, 20065, 20077, 20105, 20106, 20149, 20202, 20240, 20761, 20807, 20880, 21035, 21060 |
| Realistic | 20000, 20035, 20037, 20046, 20047, 20048, 20104 |
| ReplayTV | 20614, 20616 |
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| Ricoh | 20034 |
| Runco | 20039 |
| Salora | 20075 |
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| Sansui | 20000, 20041, 20067, 20209, 20479, 21479 |

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| Scott | 20043, 20045, 20121, 20184, 20210, 20212 |
| Sears | 20000, 20035, 20037, 20042, 20046, 20047, 20104, 20105, 21237 |
| Sharp | 20048, 20807, 20848 |
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| Shogun | 20240 |
| Singer | 20072 |
| Sonic Blue | 20614, 20616 |
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| STS | 20042 |
| Sylvania | 20000, 20035, 20043, 20081, 20593, 21593, 21781 |
| Symphonic | 20000, 20593, 21593 |
| Systemax | 21972 |
| Tagar Systems | 21972 |
| Tatung | 20041 |
| Teac | 20000, 20041 |
| Technics | 20035, 20162 |
| Teknika | 20000, 20035, 20037 |
| Thomas | 20000 |
| Tivo | 20618, 20636, 20739, 21996 |
| TMK | 20240 |
| Toshiba | 20043, 20045, 20209, 20210, 20212, 20366, 20845, 21008, 21145, 21972, 21996 |
| Totevision | 20037, 20240 |
| Touch | 21972 |
| Unitech | 20240 |
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| Video Concepts | 20040, 20045, 20061 |
| Videomagic | 20037 |
| Videosonic | 20240 |
| Viewsonic | 21972 |
| Villain | 20000 |
| Voodoo | 21972 |

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| Wards | 20000, 20035, 20042, 20047, 20048, 20060, 20072, 20081, 20149, 20212, 20240 |
| White Westinghouse | 20072, 20209 |
| XR-1000 | 20000, 20035, 20072 |
| Yamaha | 20038 |
| Zenith | 20000, 20033, 20034, 20039, 20209, 20479, 21139, 21479 |
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| Alco | 20790 |
| Allegro | 20869 |
| Amphion Media Works | 20872 |
| AMW | 20872 |
| Apex Digital | 20672, 20717, 20755, 20794, 20796, 20797, 21004, 21020, 21056, 21061, 21100 |
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| Audiovox | 20790, 21041, 21072 |
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| Blaupunkt | 20717 |
| Blue Parade | 20571 |
| Broksonic | 20695 |
| California Audio Labs | 20490 |
| Cinea | 20831 |
| CineVision | 20833, 20869, 20876 |
| Citizen | 21277 |
| Coby | 20778, 20852, 21086, 21107, 21177, 21351 |
| Craig | 20831 |
| Curtis Mathes | 21087 |
| CyberHome | 20816, 20874, 21023, 21024, 21117, 21129 |
| Daewoo | 20705, 20784, 20833, 20869, 21169, 21172, 21234, 21242 |
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| Denon | 20490, 20634 |
| Desay | 21407 |
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| Dual | 21068, 21085 |
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| Enterprise | 20591 |
| Fisher | 20670 |
| Funai | 20675, 21334 |
| Gateway | 21073, 21077, 21158 |
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| Go Video | 20715, 20741, 20744, 20783, 20833, 20869, 21044, 21075, 21099, 21158, 21304, 21730 |
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| GoldStar | 20741 |
| GPX | 20699, 20769 |
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| Grundig | 20539 |
| Harman/Kardon | 20582, 20702 |
| Hitachi | 20573, 20664 |
| Hiteker | 20672 |
| iLo | 21348 |
| Initial | 20717 |
| Integra | 20571, 20627 |
| Jaton | 21078 |
| JBL | 20702 |
| JSI | 21423 |
| JVC | 20558, 20623, 20867, 21164 |
| jWin | 21049, 21051 |
| Kawasaki | 20790 |
| Kenwood | 20490, 20534 |
| KLH | 20717, 20790, 21020, 21149 |
| Konka | 20711 |
| Koss | 20651, 21423 |
| Landel | 20826 |
| Lasonic | 20798, 21173 |
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| Lenoxx | 21127 |
| LG | 20591, 20741, 20801, 20869 |
| LiteOn | 21058, 21158, 21416, 21440 |
| Loewe | 20511 |
| Magnavox | 20503, 20539, 20646, 20675, 20821 |
| Malata | 20782, 21159 |

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| McIntosh | 21533 |
| Memorex | 20695, 20831, 21270 |
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| Mintek | 20717, 20839 |
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| NAD | 20591, 20692, 20741 |
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| NexxTech | 21402 |
| Norcent | 20872, 21003, 21107, 21265 |
| Onkyo | 20503, 20627, 20792 |
| Oritron | 20651 |
| Panasonic | 20490, 20503, 20703, 21362, 21462, 21490, 21762 |
| Philips | 20503, 20539, 20646, 20675, 21267, 21354 |
| PianoDisc | 21024 |
| Pioneer | 20525, 20571, 20631 |
| Polaroid | 21020, 21061, 21086 |
| Polk Audio | 20539 |
| Portland | 20770 |
| Presidian | 20675 |
| Proceed | 20672 |
| Proscan | 20522 |
| ProVision | 20778 |
| Qwestar | 20651 |
| RCA | 20522, 20571, 20717, 20790, 20822 |
| Rio | 20869 |
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| Sampo | 20698, 20752 |
| Samsung | 20490, 20573, 20744, 20820, 21044, 21075 |
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| Sharp | 20630, 20675, 20752, 21256 |
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| Shinsonic | 20533, 20839 |
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| Sungale | 21074 |
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| Yamaha | 20490, 20539, 20545 |
| Yamakawa | 20872 |
| Zenith | 20503, 20591, 20741, 20869 |
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| Adcom | 30616 |
| Aiwa | 30121, 30189, 31243, 31388, 31405, 31641 |
| Akai | 30224, 31255, 31512 |
| Alco | 31390 |
| AMC | 31077 |
| Amphion Media Works | 31563, 31615 |
| AMW | 31563, 31615 |
| Anam | 31074, 31609 |
| Apex Digital | 31257, 31430, 31774 |
| Arcam | 31189 |
| Audiotronic | 31189 |
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| Bose | 30639, 31229, 31253, 31933 |
| Brix | 31602 |
| Cambridge Soundworks | 31370 |
| Capetronic | 30531 |
| Carver | 30008, 30121, 30189, 30360, 31189, 31289 |
| Classic | 31352 |
| Coby | 31389 |
| Criterion | 31420 |
| Daewoo | 31250 |
| Delphi | 31414 |
| Denon | 30121, 30273, 30771, 31142, 31360 |
| Emerson | 30424 |
| Fisher | 30219, 30360, 31801 |
| Garrard | 30424 |
| Gateway | 31517, 31567 |
| Go Video | 31532 |
| Harman/Kardon | 30110, 30189, 30891, 31289, 31304, 31306 |
| Hitachi | 31273, 31801 |
| Initial | 31426 |
| Inkel | 30062 |
| Integra | 30135, 31298, 31320 |
| JBL | 30110, 31306 |
| JVC | 30074, 31058, 31374, 31495, 31811 |
| Kenwood | 30077, 30186, 31313, 31569, 31570 |
| KLH | 31390, 31412, 31428 |
| Koss | 30424, 31366, 31497 |
| Lasonic | 31798 |
| Lenox | 31437 |
| Lexicon | 31076 |
| LG | 31293 |
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| Magnavox | 30128, 30189, 30531, 31189, 31269, 31514 |
| Marantz | 30039, 30128, 30189, 31189, 31269, 31289 |
| McIntosh | 31289 |

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| Micromega | 31189 |
| Mitsubishi | 31393 |
| Myryad | 31189 |
| Nakamichi | 30347, 31313 |
| NEC | 30235 |
| Norcent | 31389 |
| Nova | 31389 |
| Onkyo | 30135, 30380, 30842, 31298, 31320, 31531 |
| Optimus | 30177, 30186, 30219, 30531, 30670, 31023, 31074 |
| Oritron | 31366, 31497 |
| Panasonic | 30039, 30309, 31288, 31308, 31316, 31350, 31363, 31518, 31548, 31633, 31763, 31764 |
| Philips | 30189, 31189, 31266, 31269 |
| Pioneer | 30014, 30150, 30531, 30630, 31023, 31384 |
| Polaroid | 31508 |
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| Proscan | 31254 |
| Quasar | 30039 |
| RCA | 30346, 30360, 30530, 30531, 31023, 31074, 31254, 31390, 31511, 31609 |
| Realistic | 30163 |
| Regent | 31437 |
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| Carver | 30892 |
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| JVC | 30331 |
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| Yamaha | 30133, 30143, 30354, 30504 |

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For help via the Internet, visit us at: DIRECTV.com

Or ask for technical support at: 1-800-531-5000

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05/06

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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, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase or decrease the separation between the equipment and receiver.
- Consult the dealer or an experienced remote control/TV technician for help.

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to FCC Rules. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

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1. This device may not cause harmful interference.
1. This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

DIRECTV, Inc.

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1-800-531-5000

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